

ORIGINAL

**PG&E  
Generating Company**

**Okeechobee System  
Impact Study**

**Final Report  
Volume II**

**October 1999**

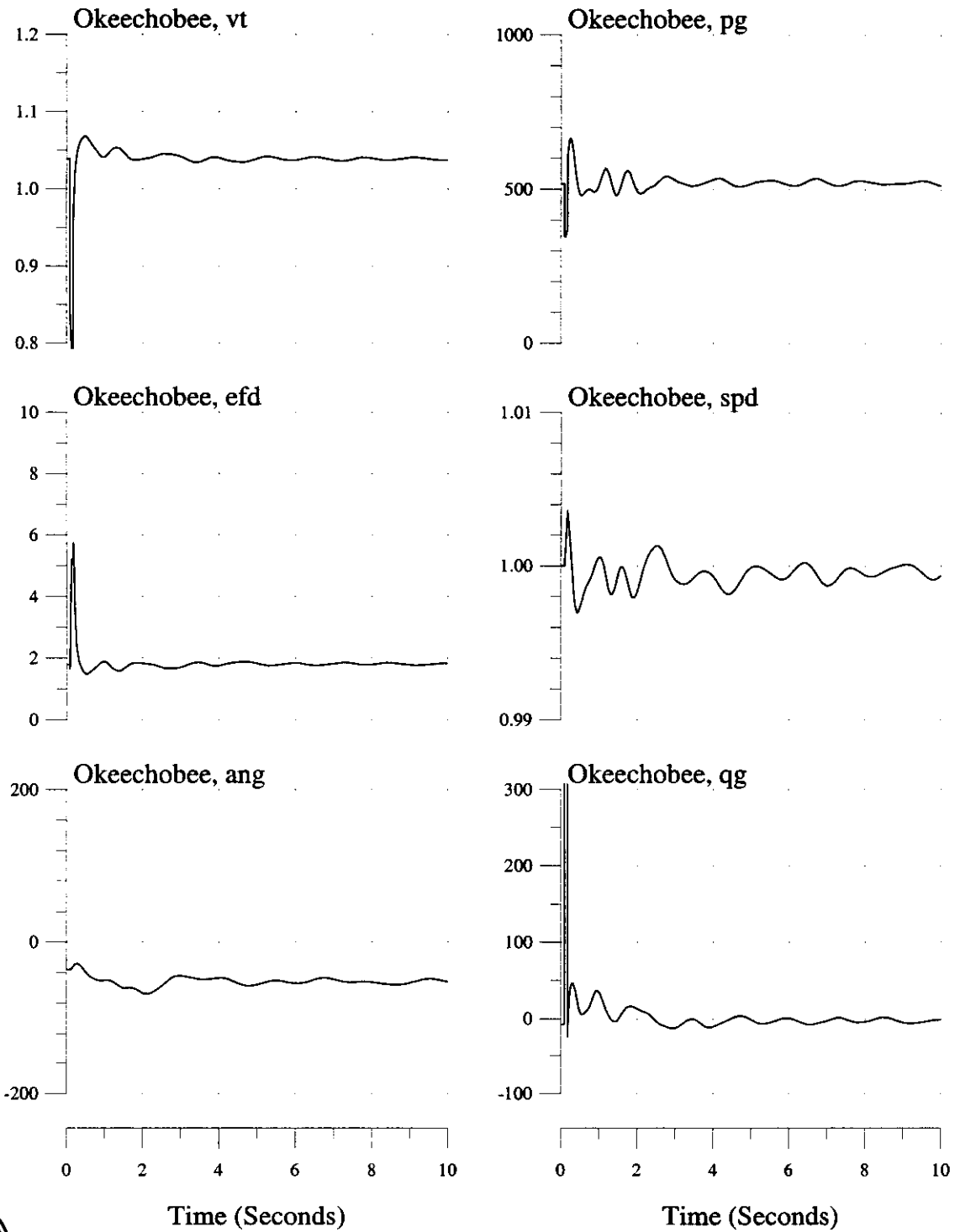
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FPSC-RECORDS/REPORTING

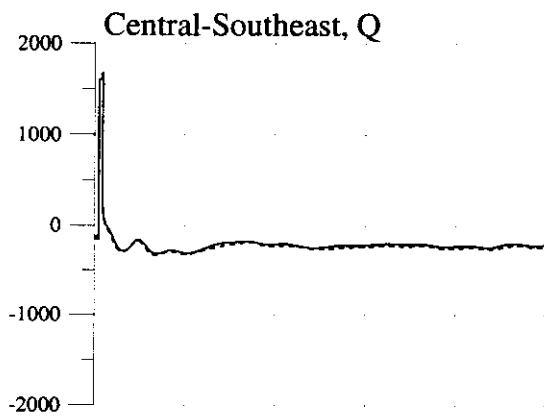
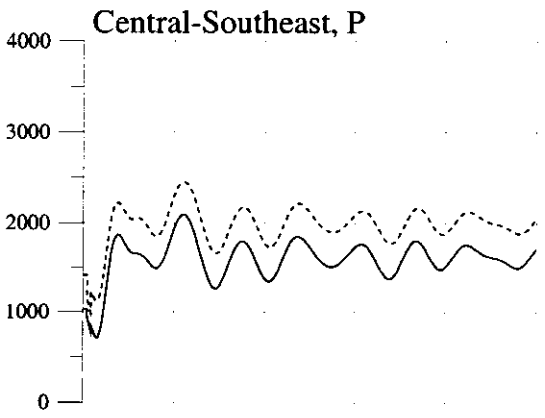
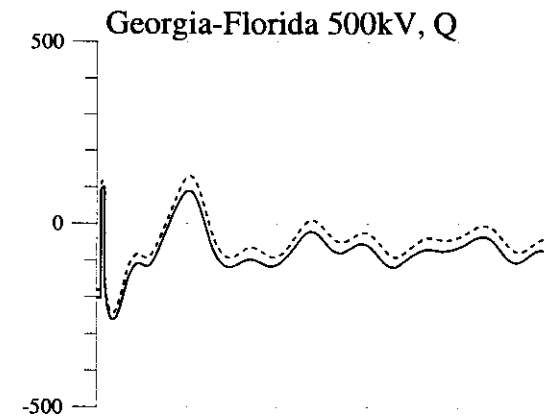
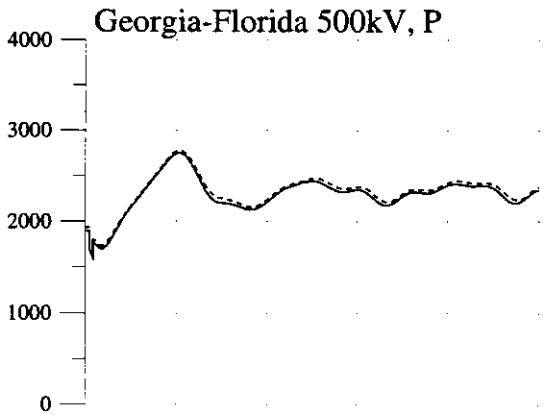
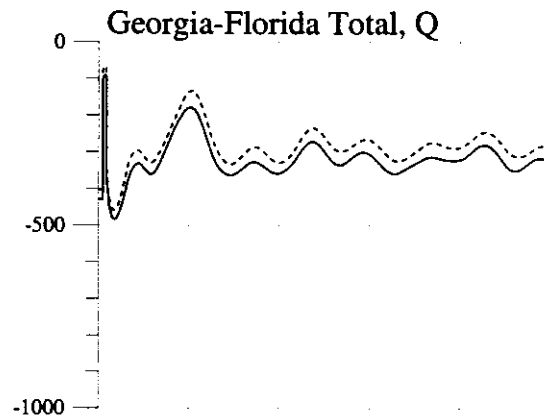
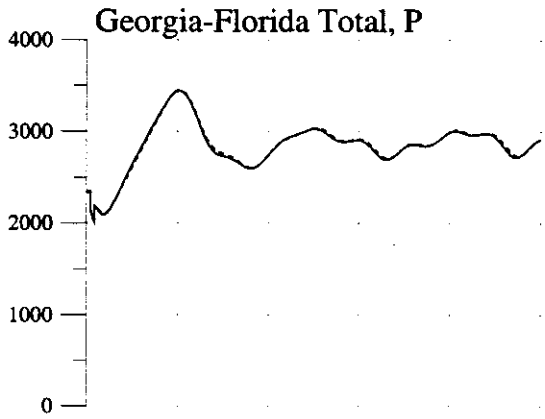


3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Summer System  
 Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



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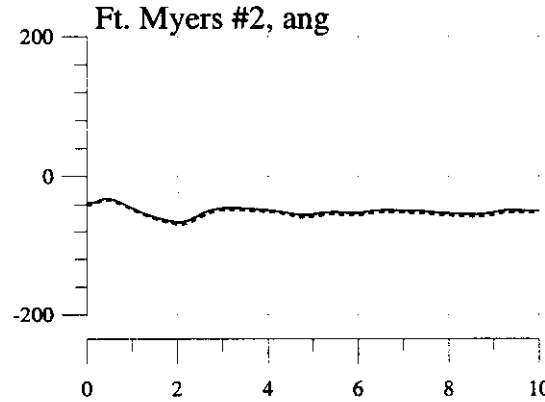
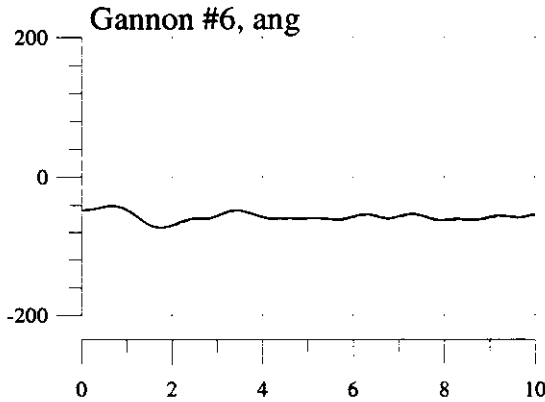
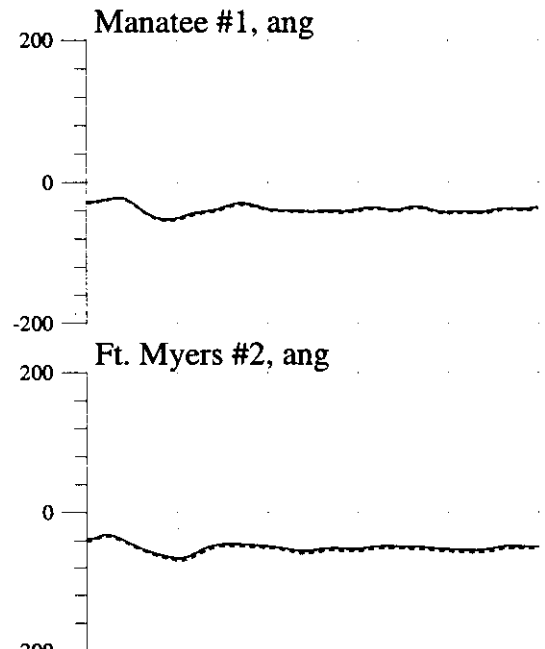
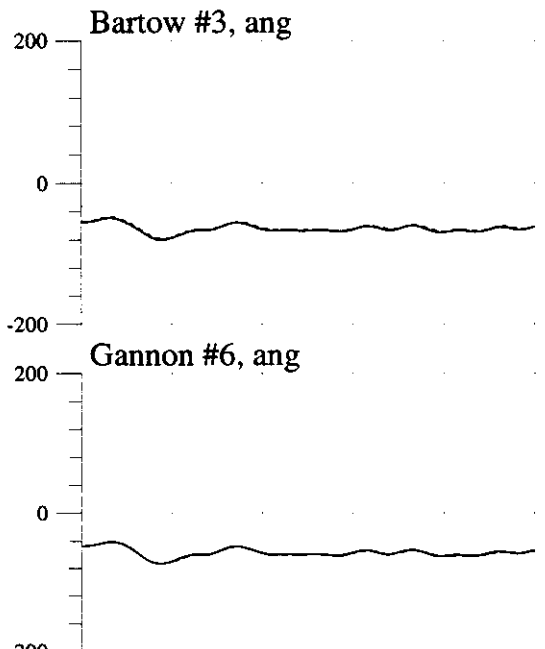
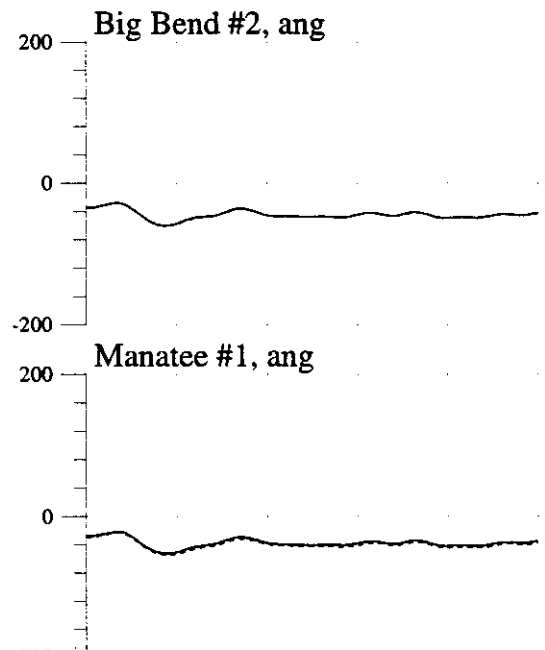
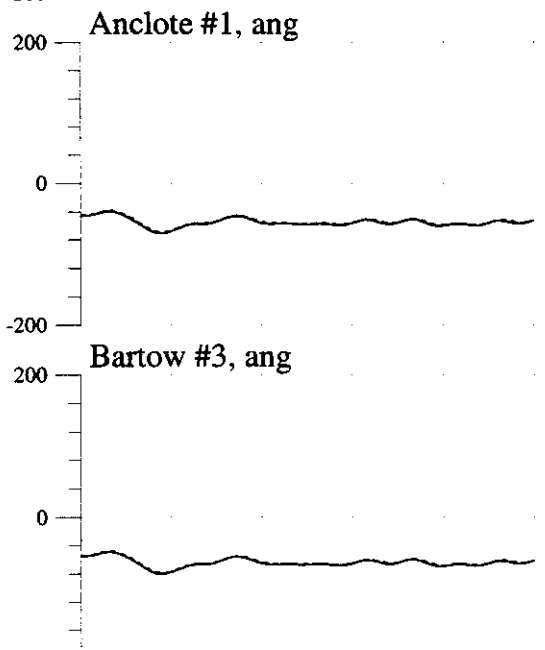
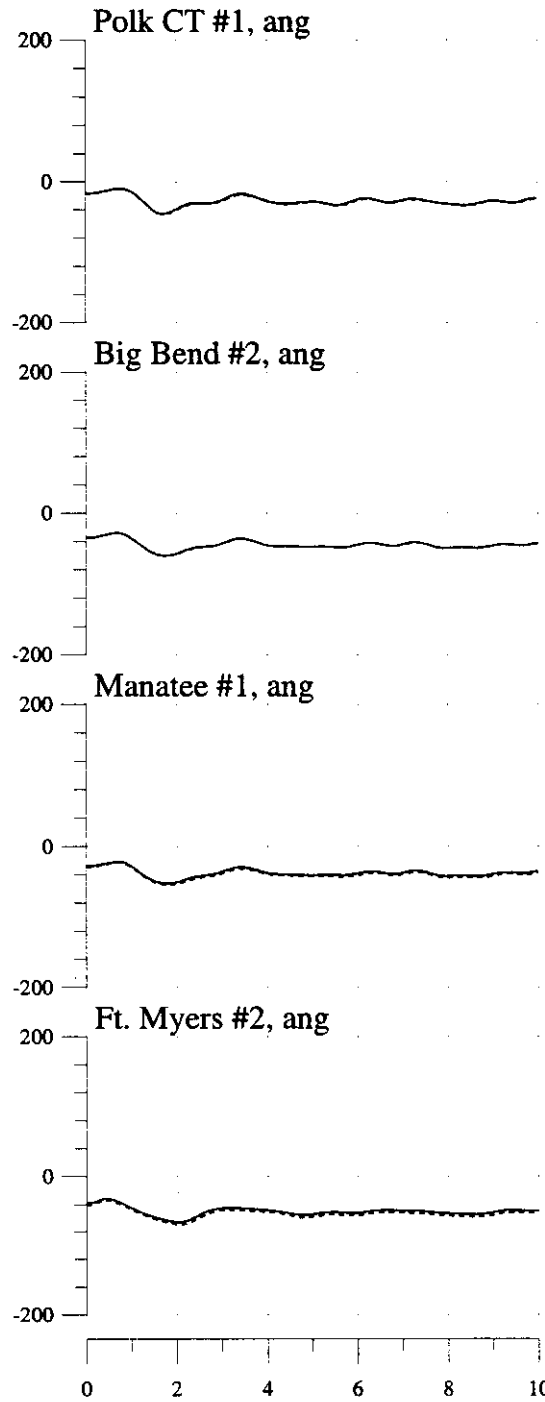
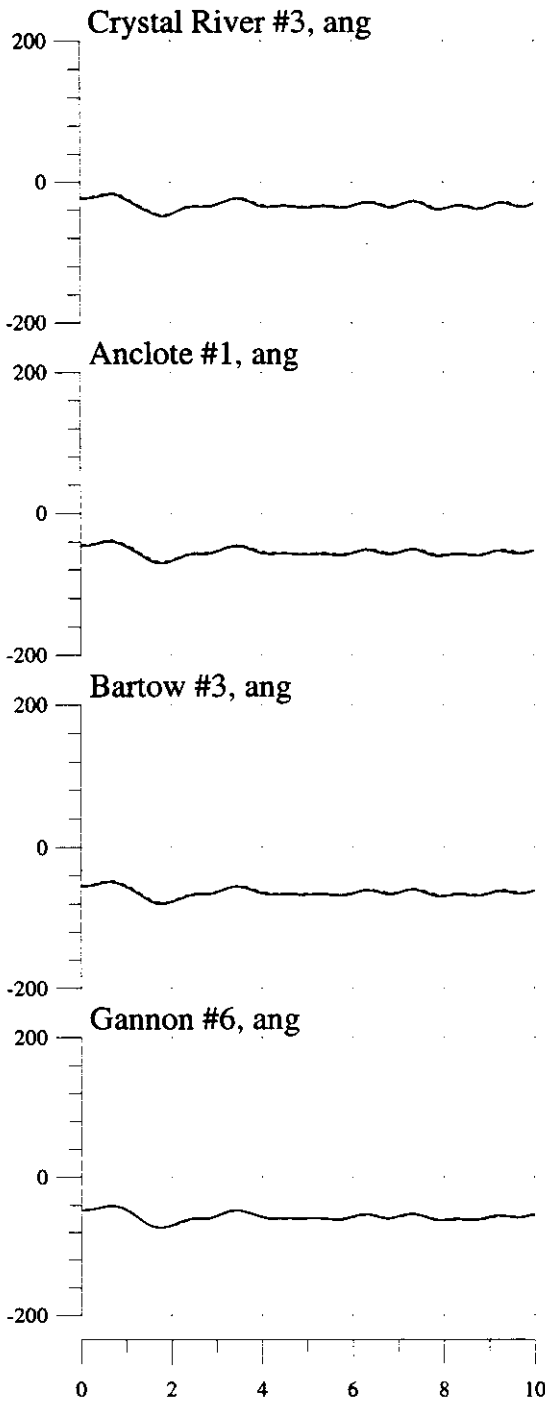
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Time (Seconds)



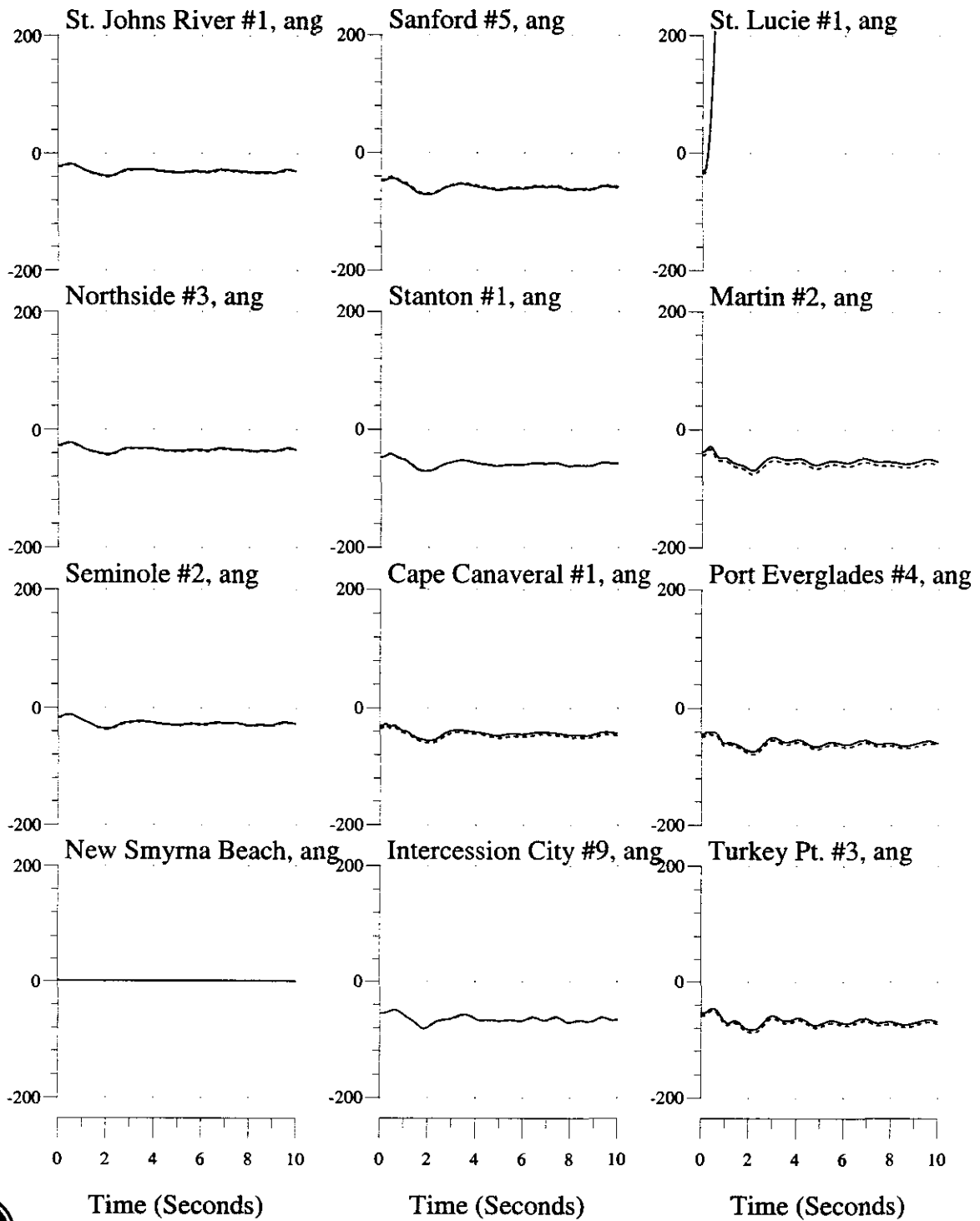
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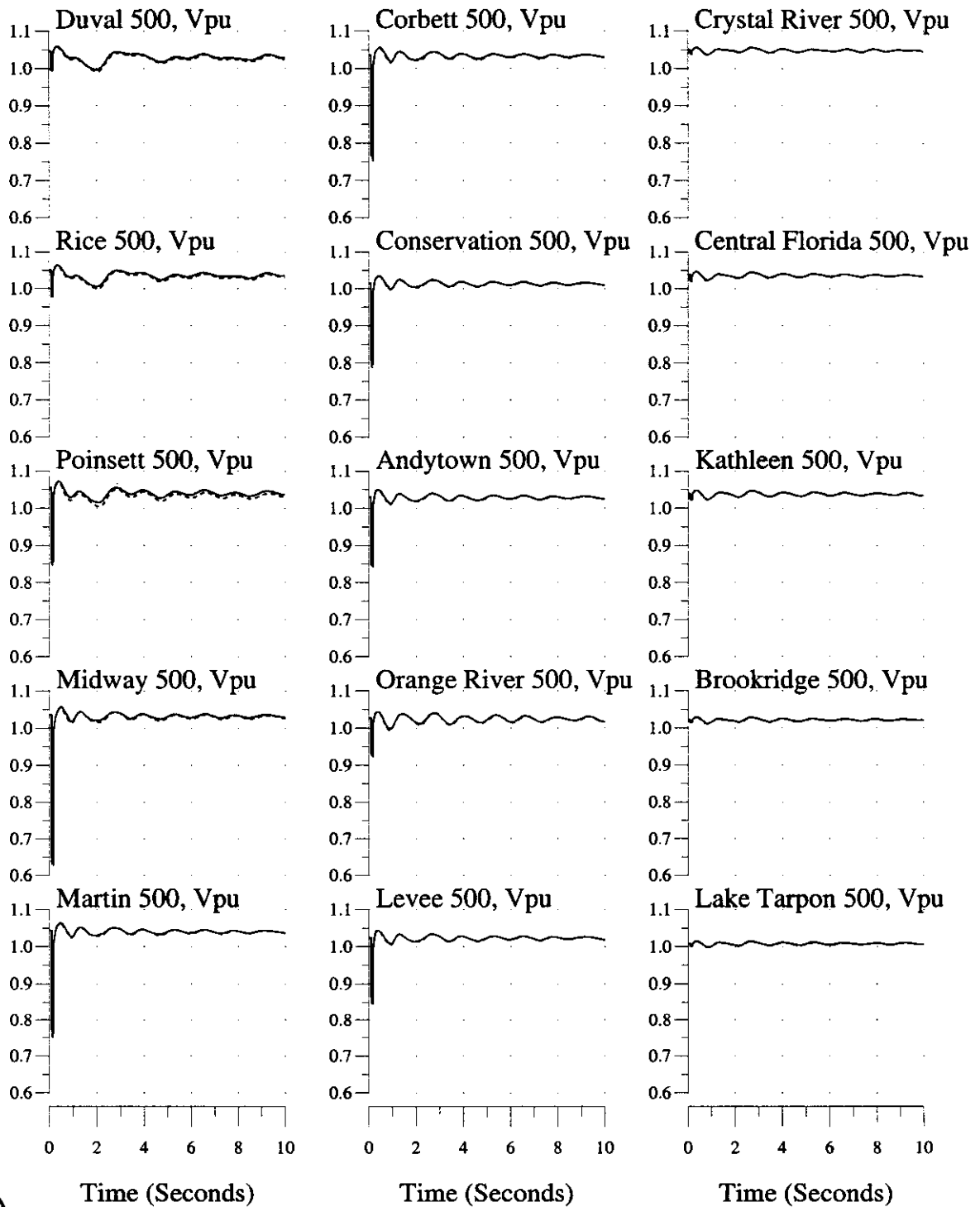
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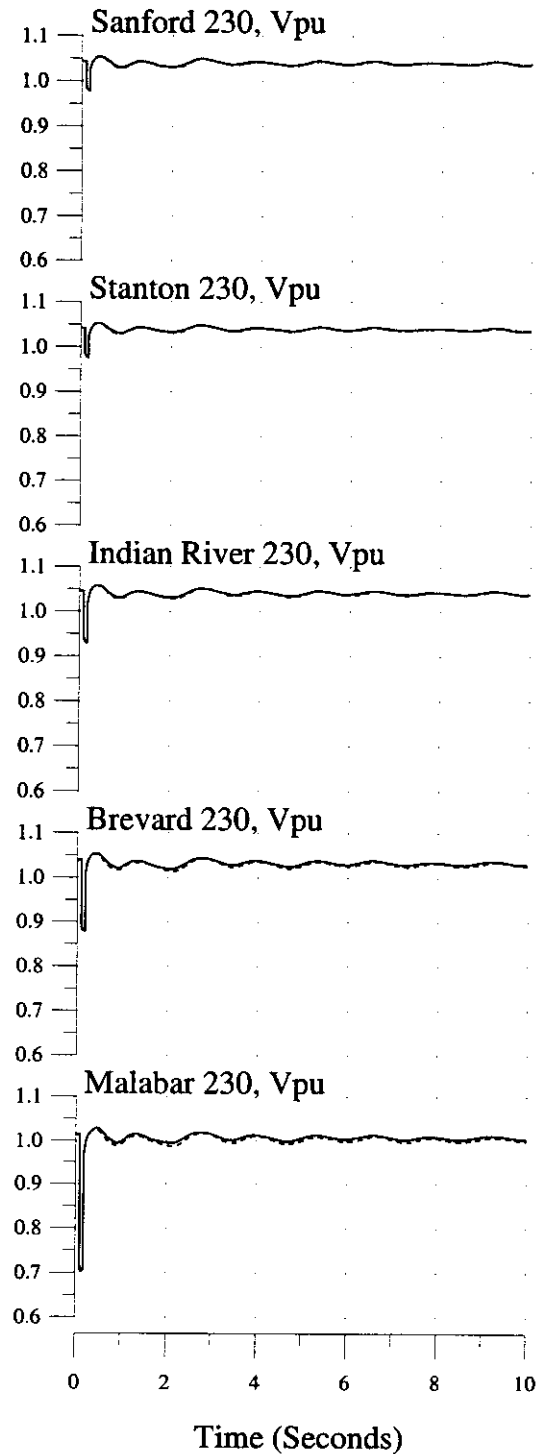
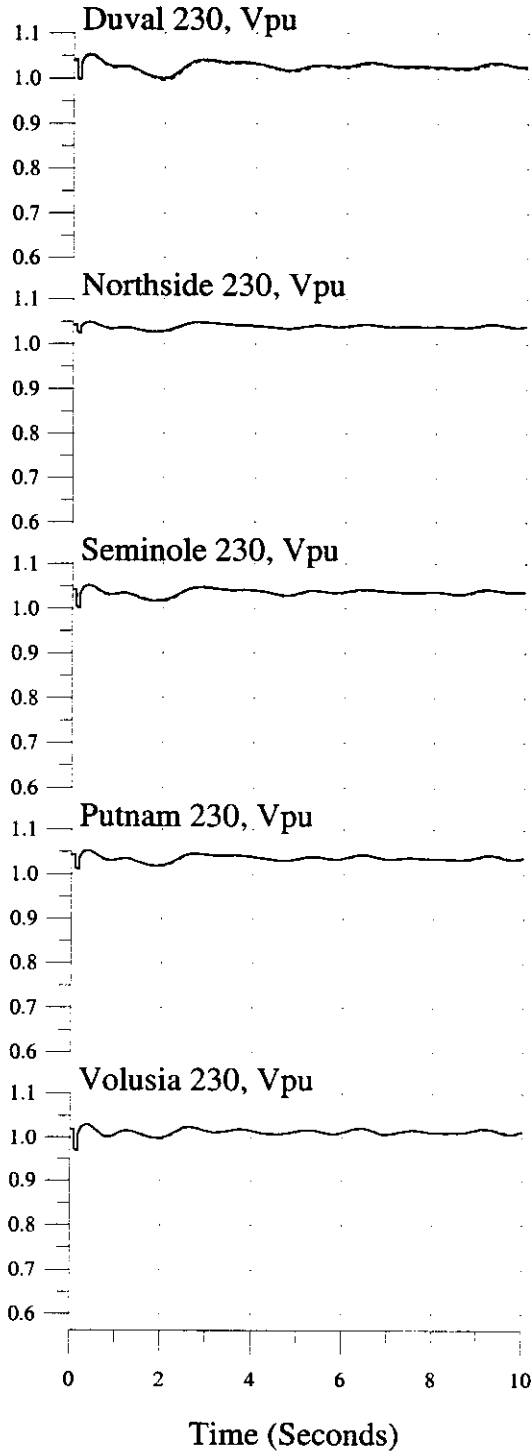
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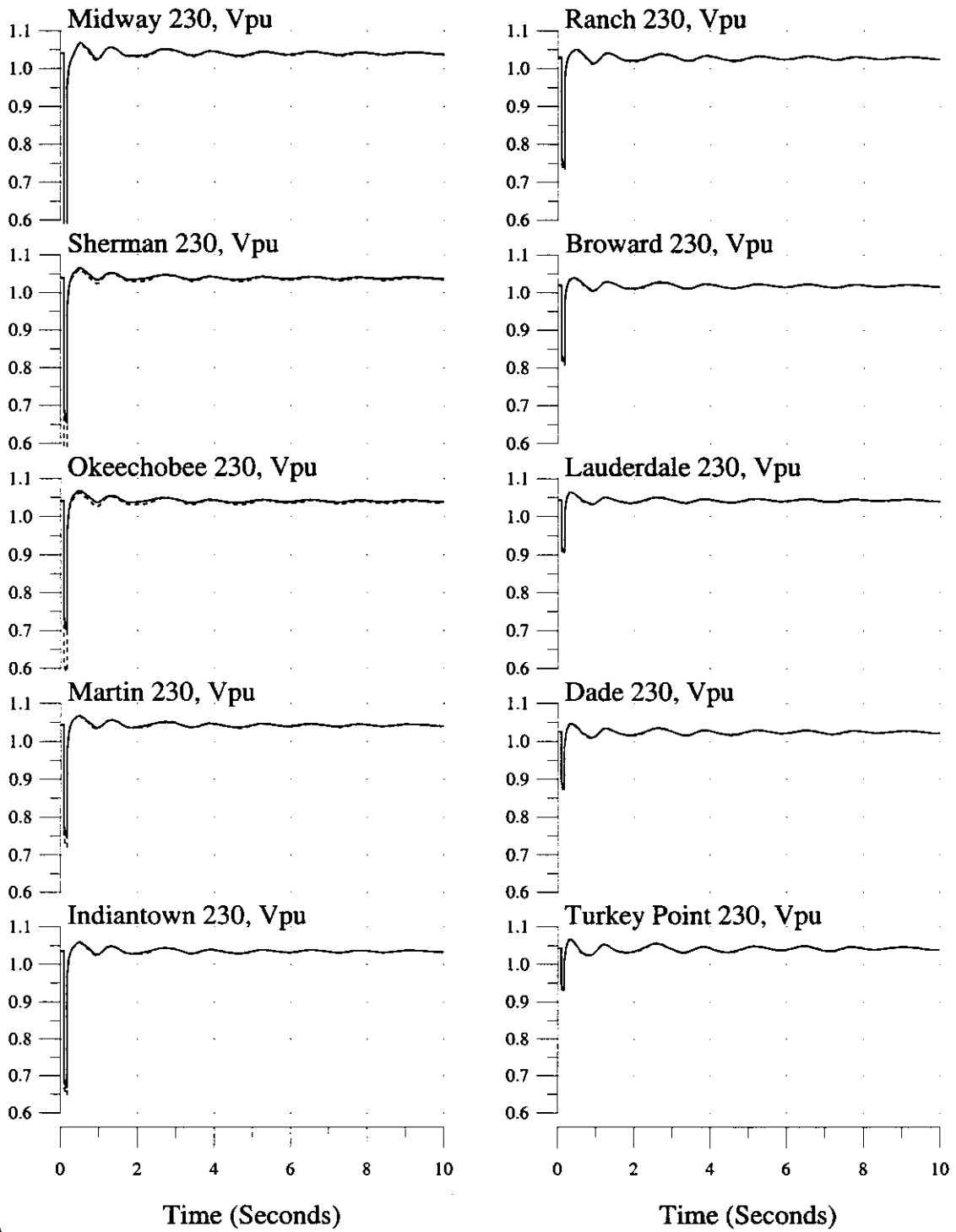
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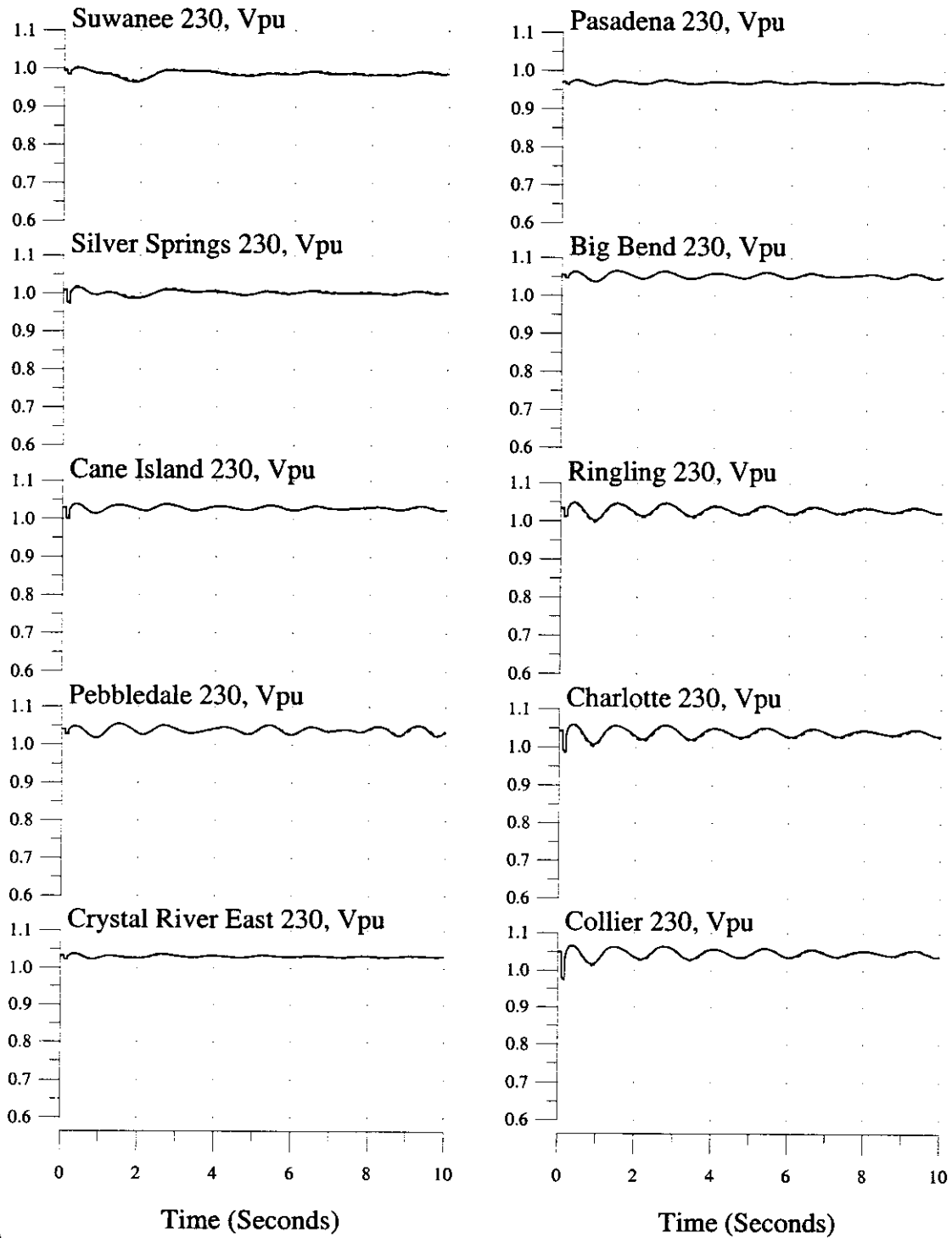
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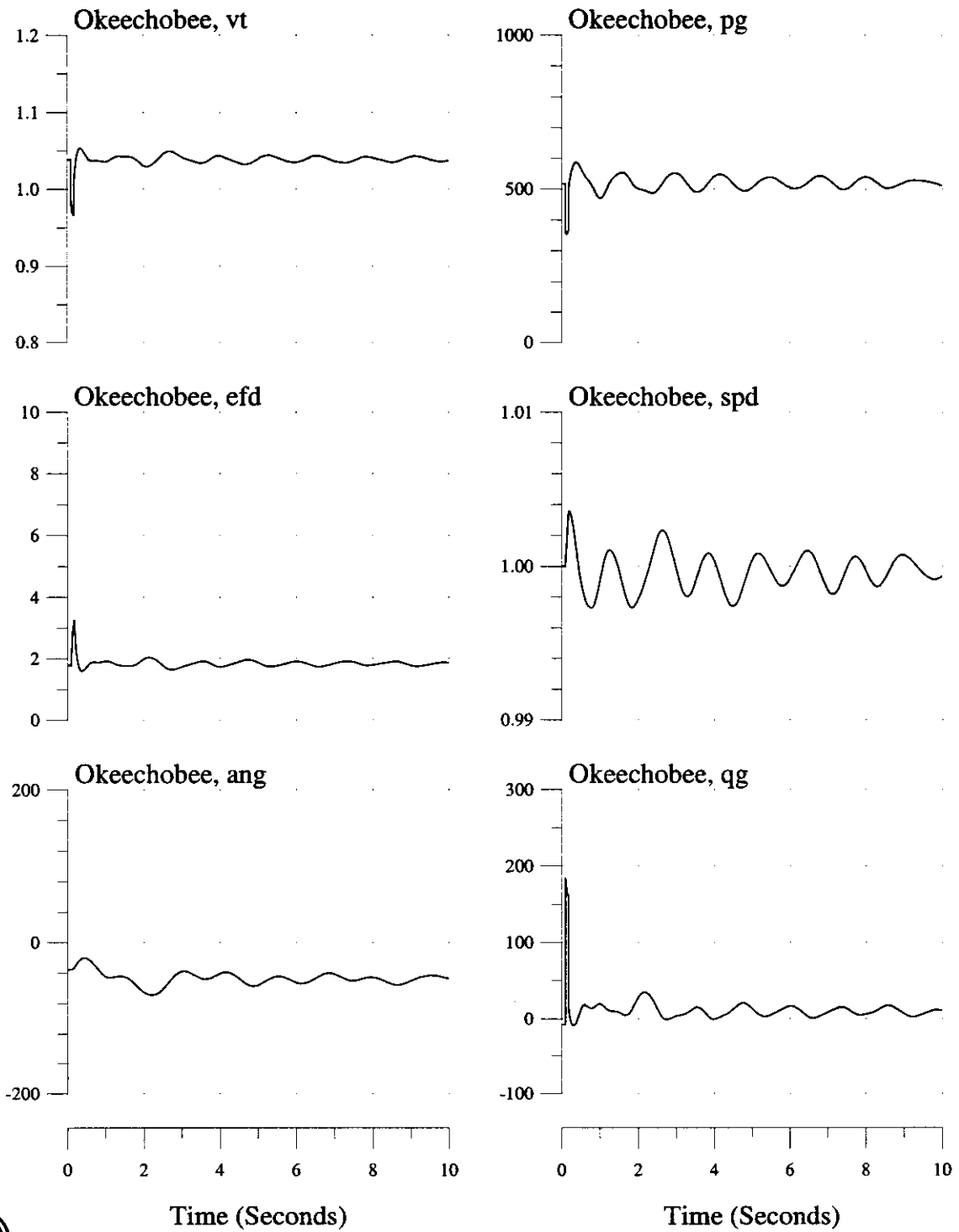
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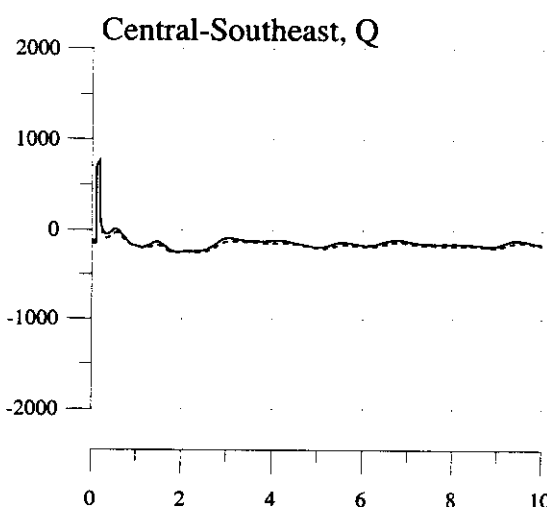
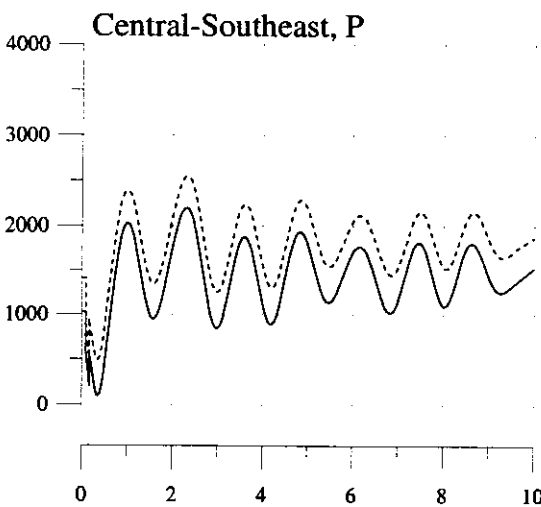
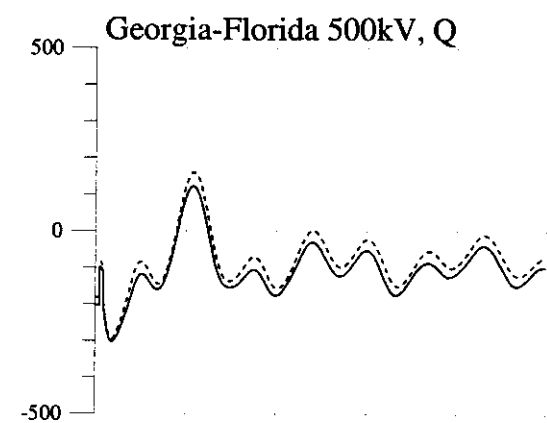
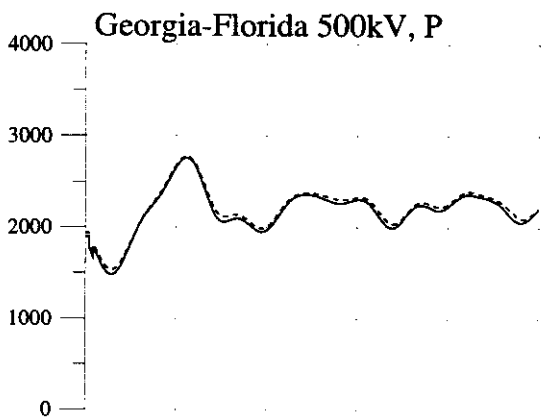
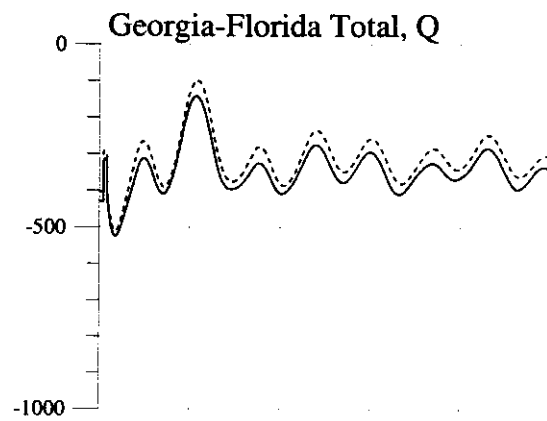
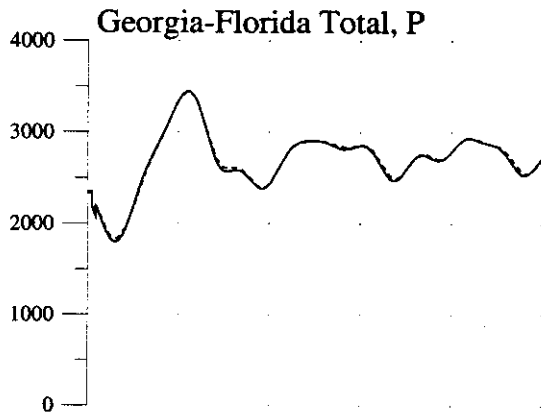
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
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Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



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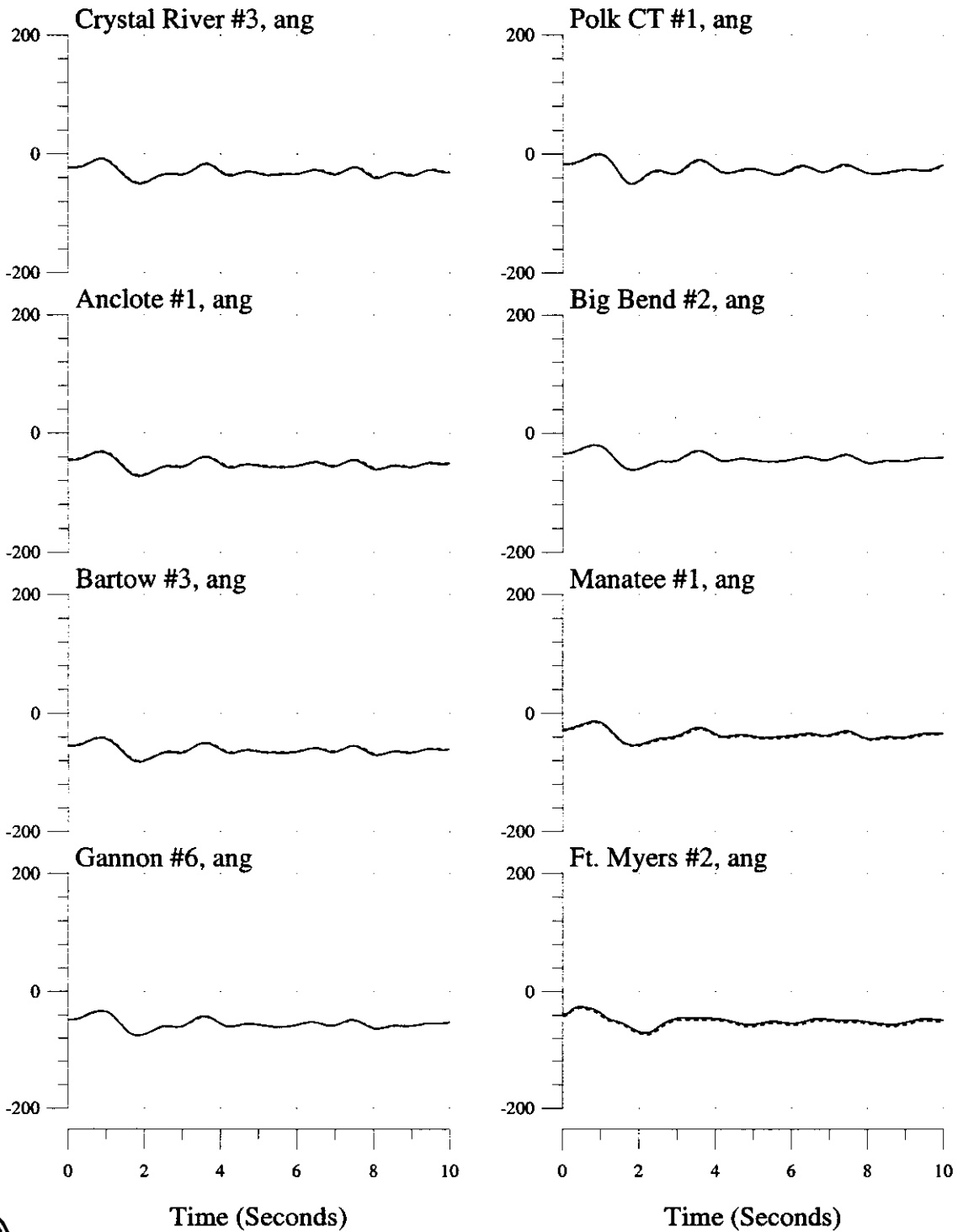
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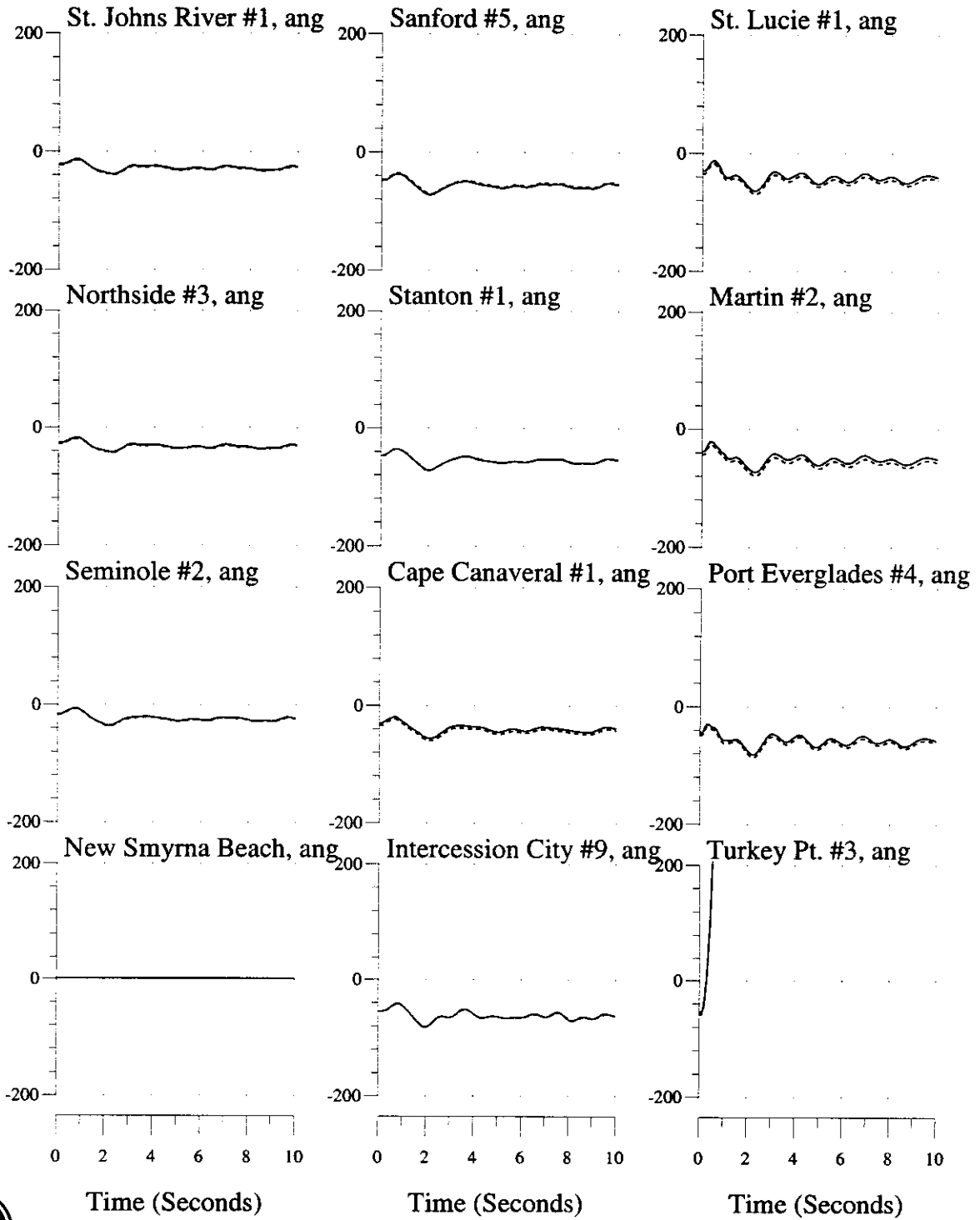
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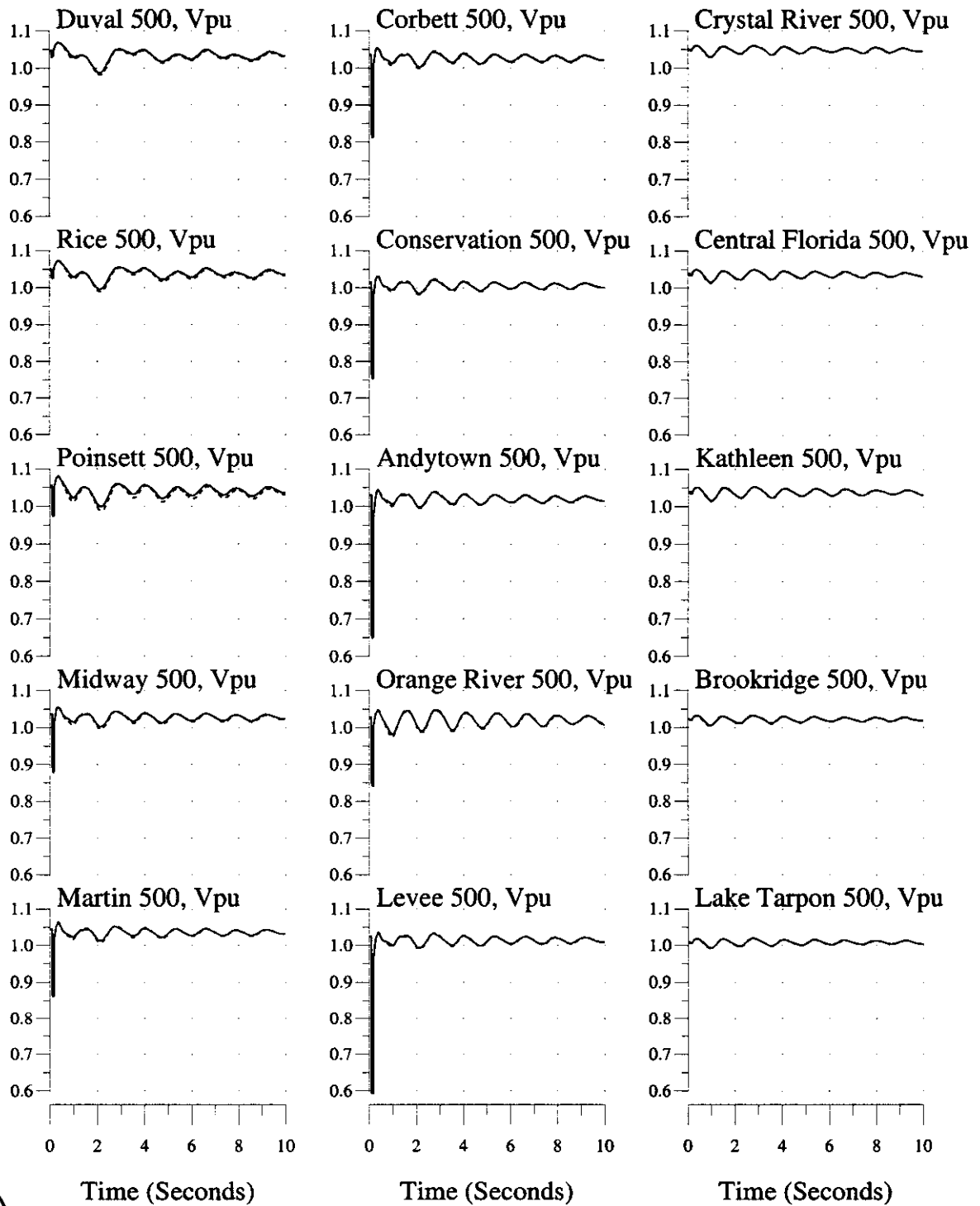
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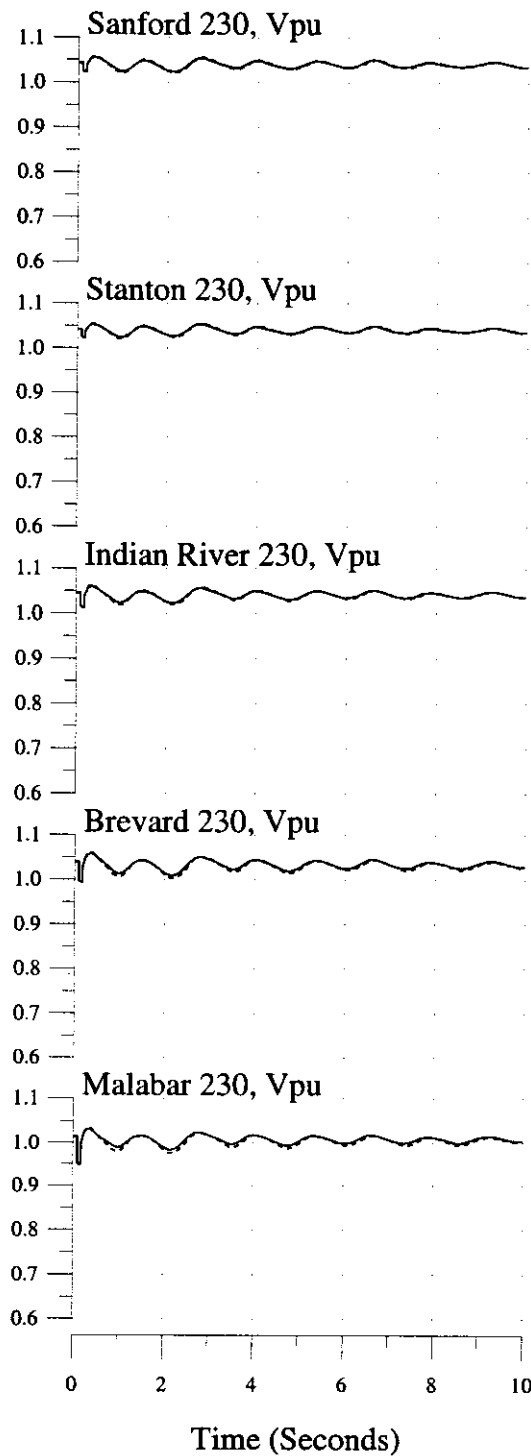
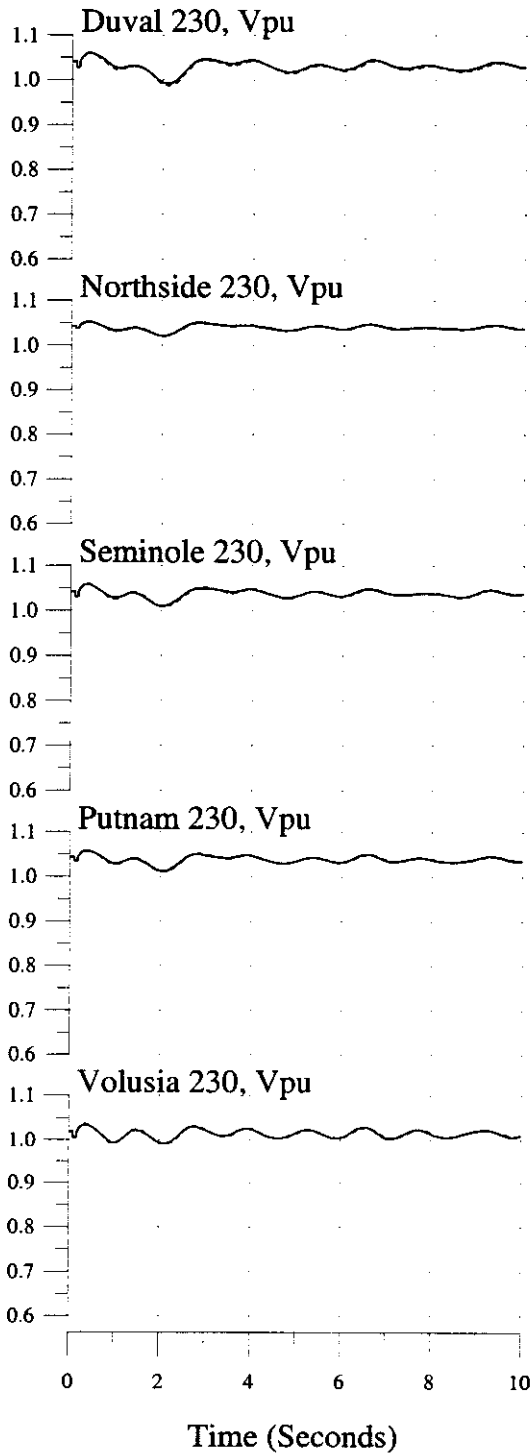
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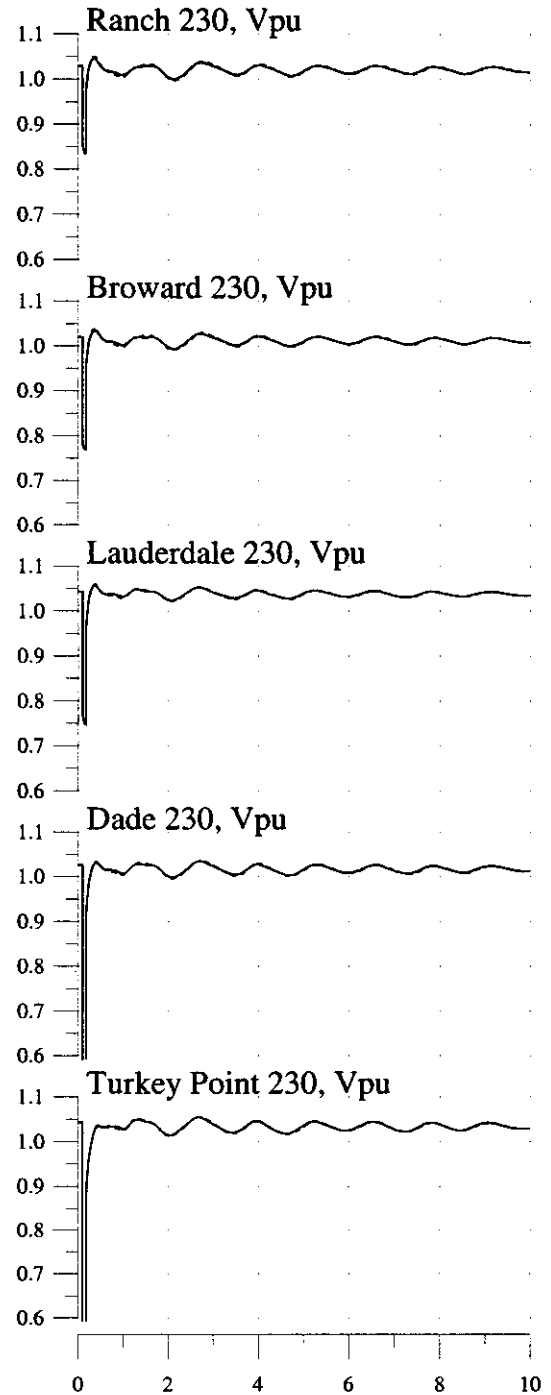
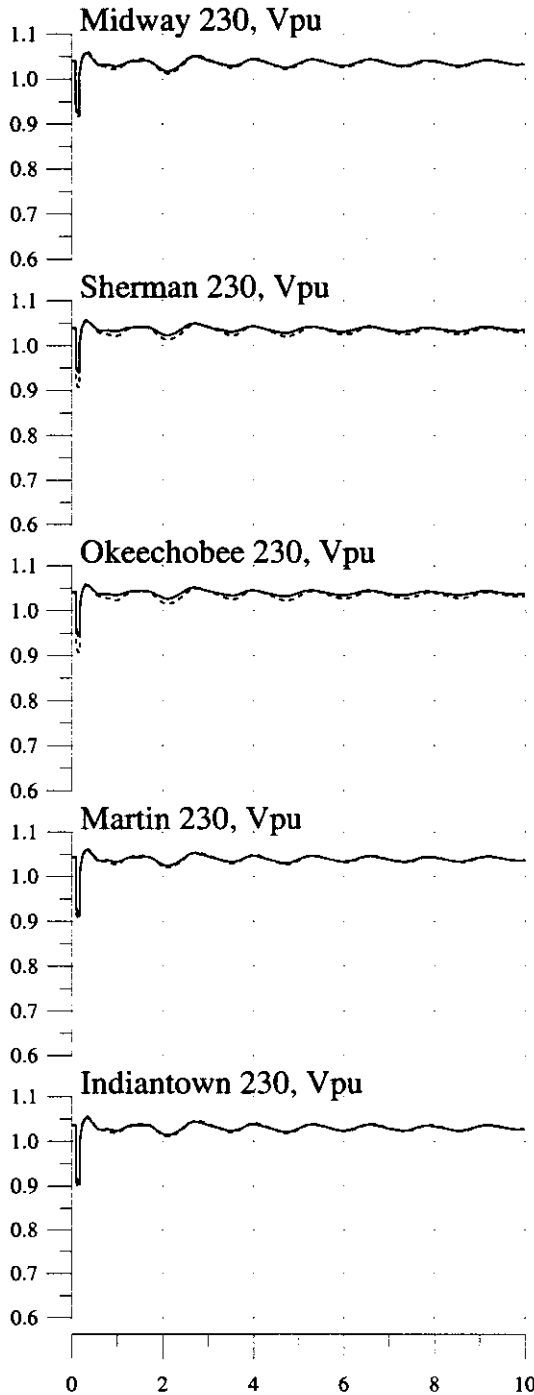
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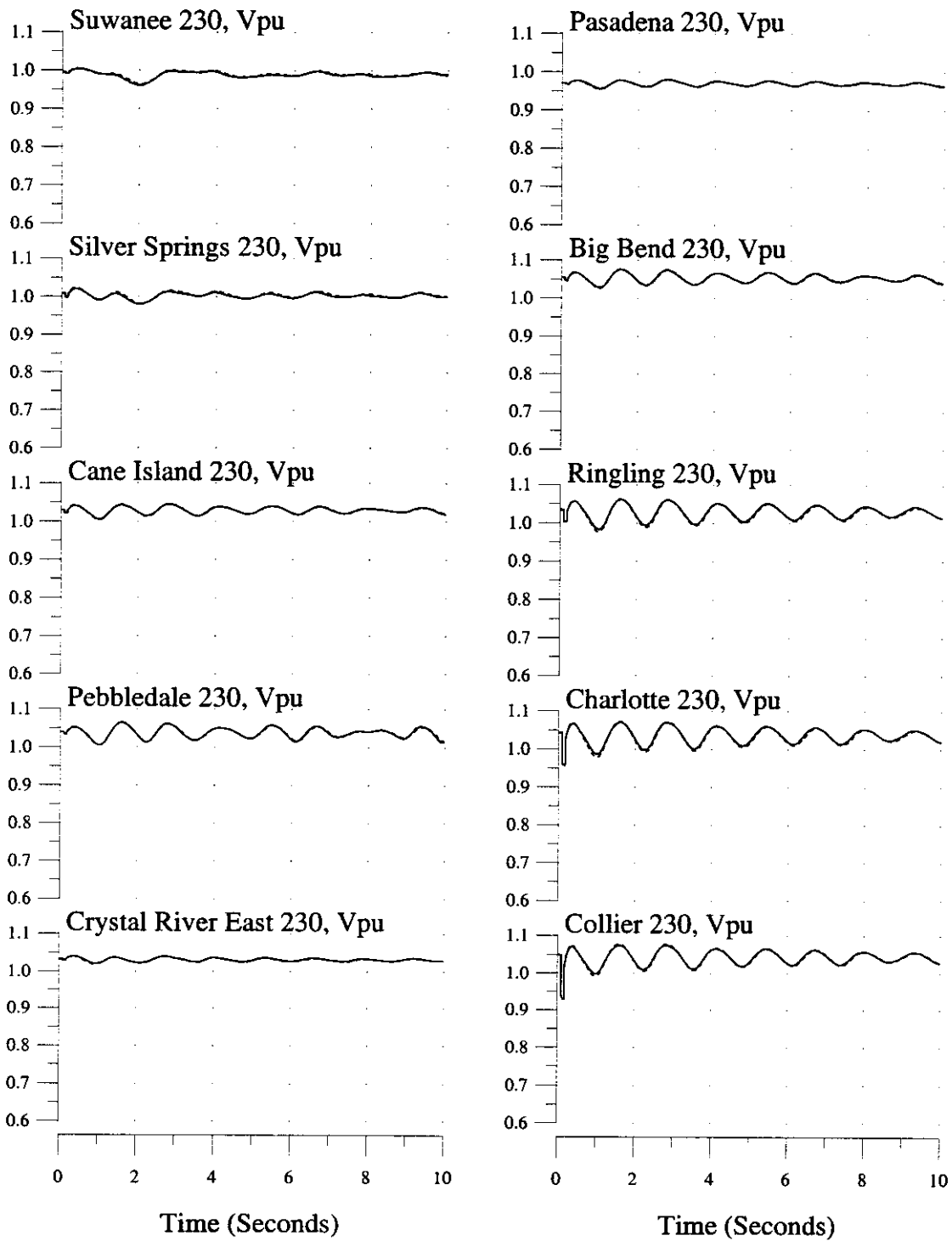
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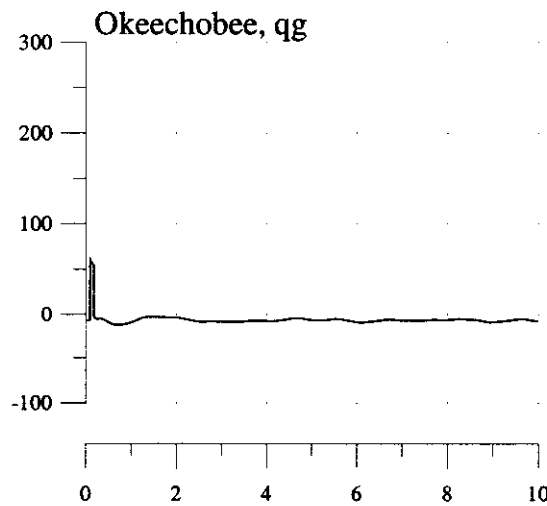
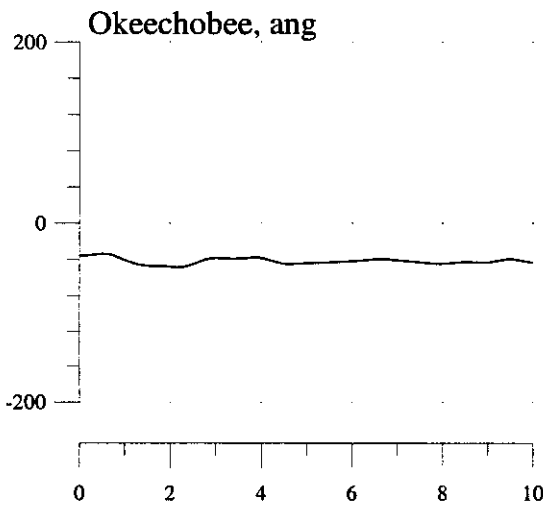
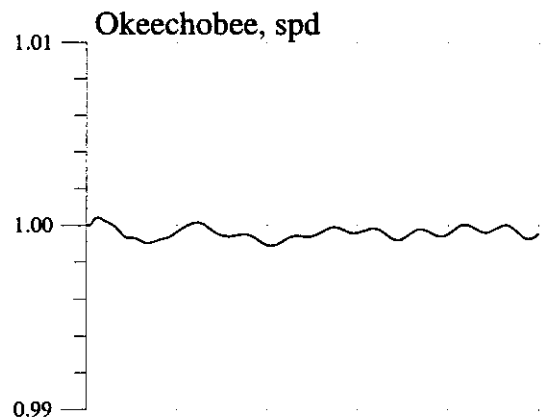
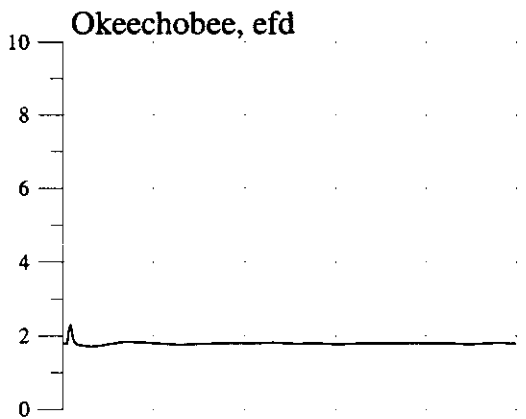
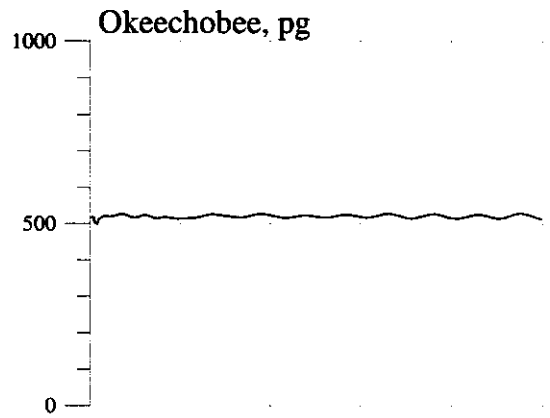
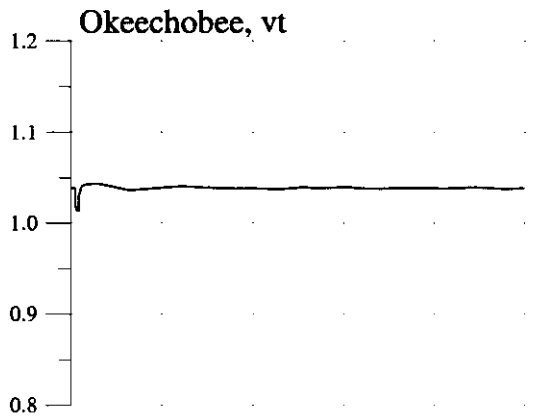
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Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Summer System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



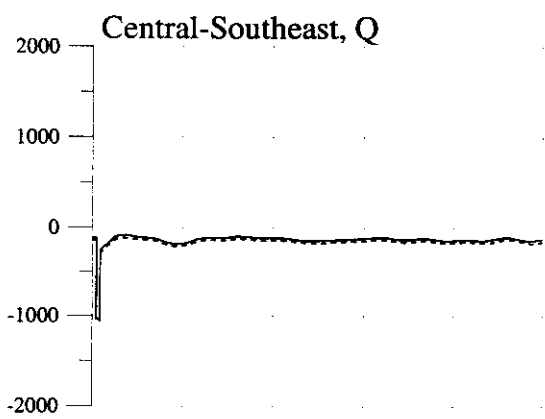
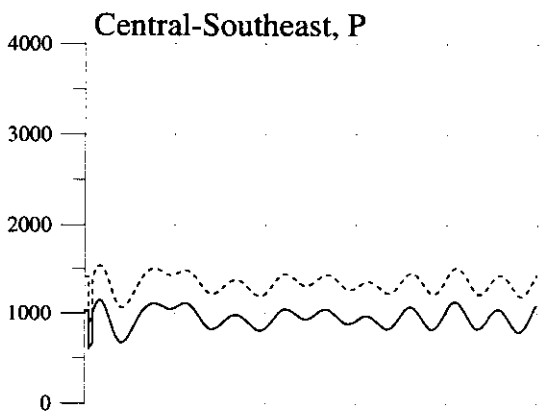
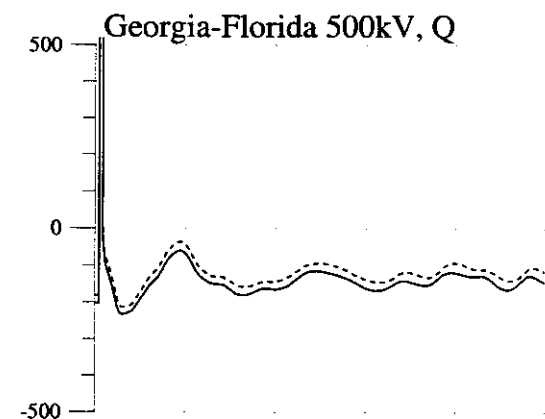
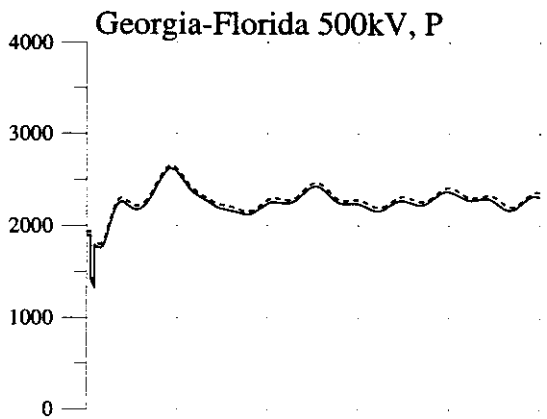
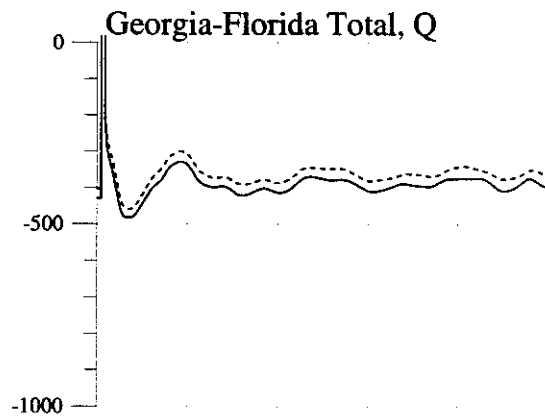
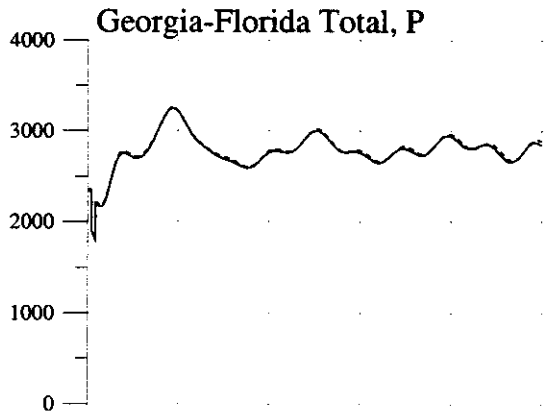
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Time (Seconds)



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
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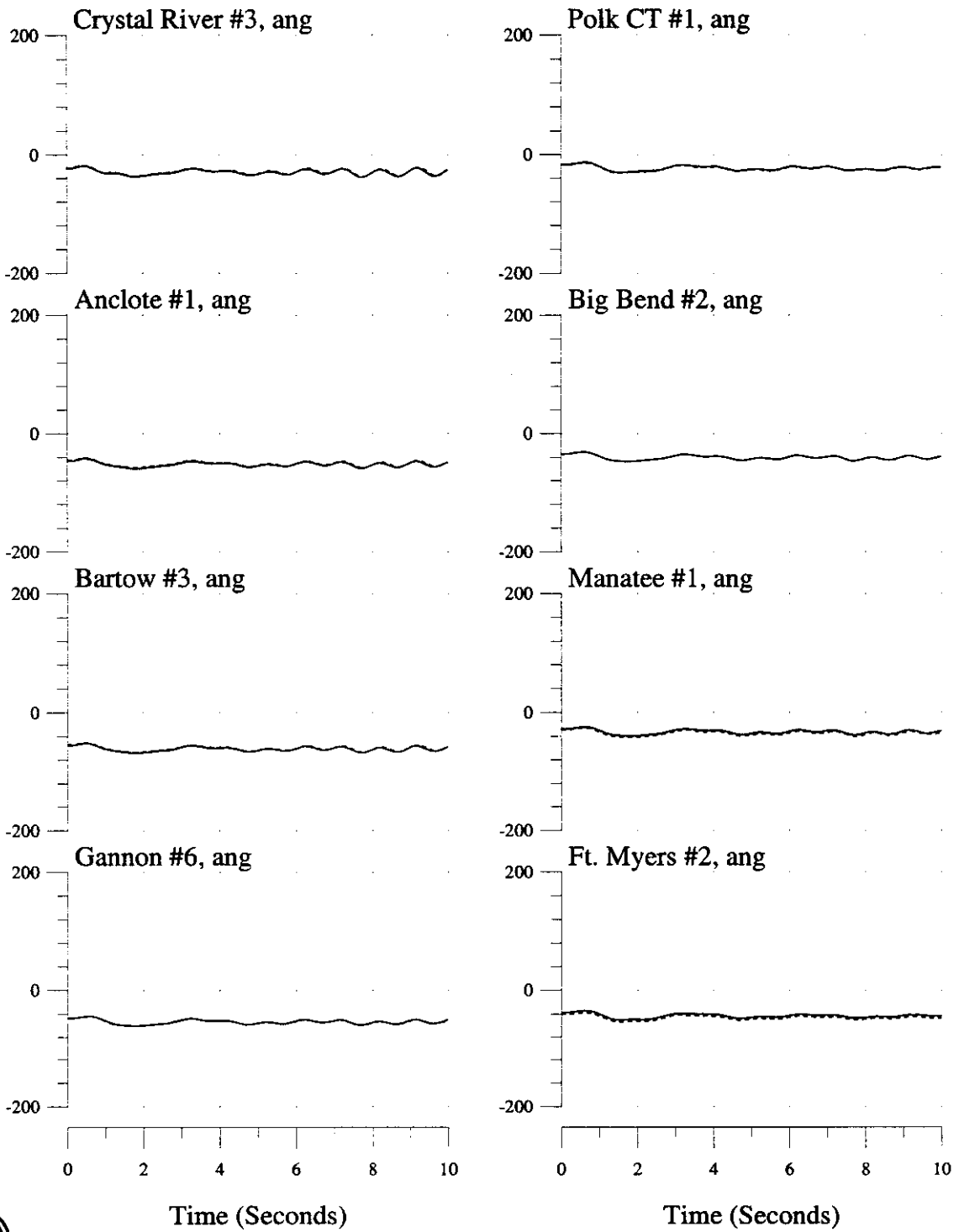
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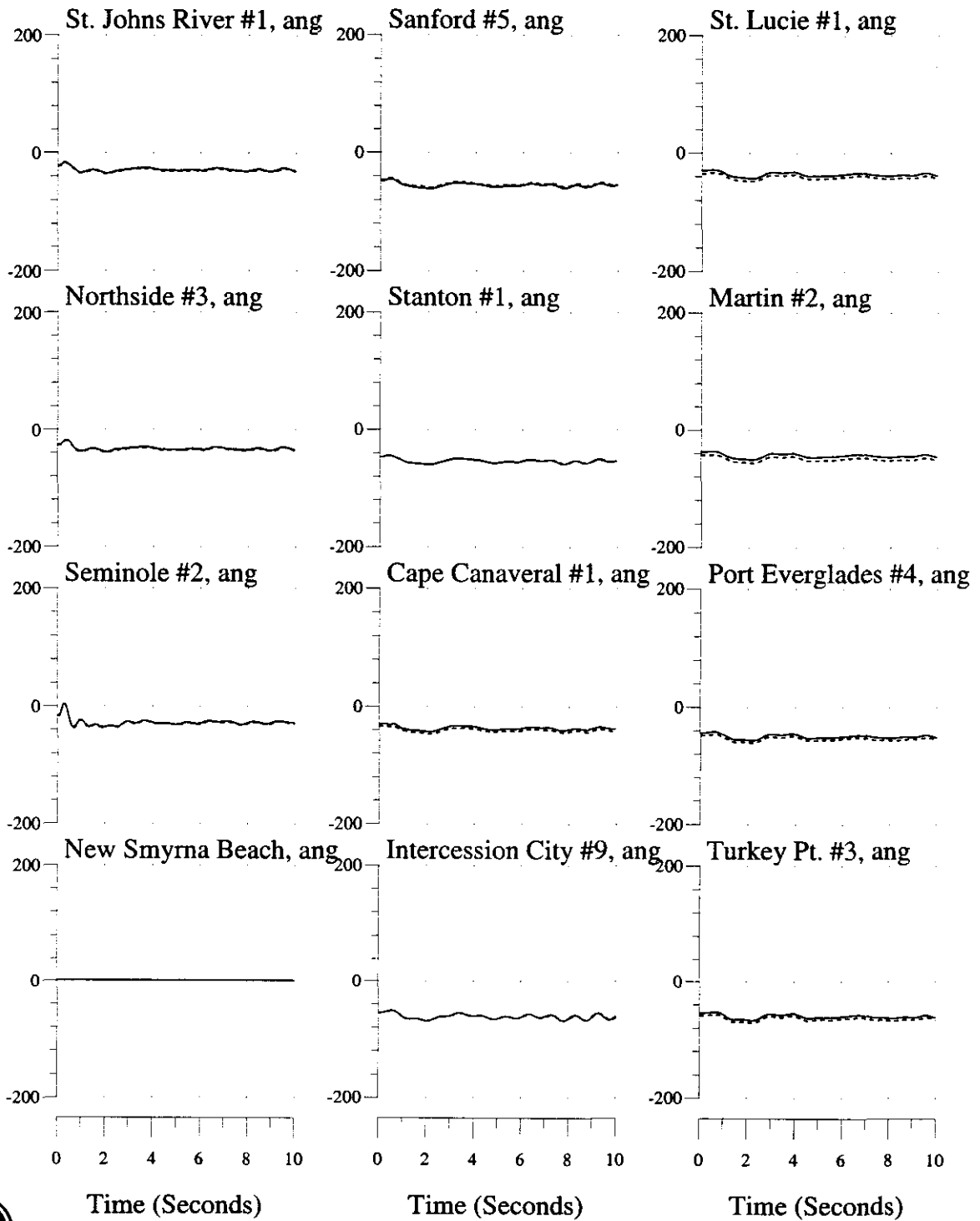
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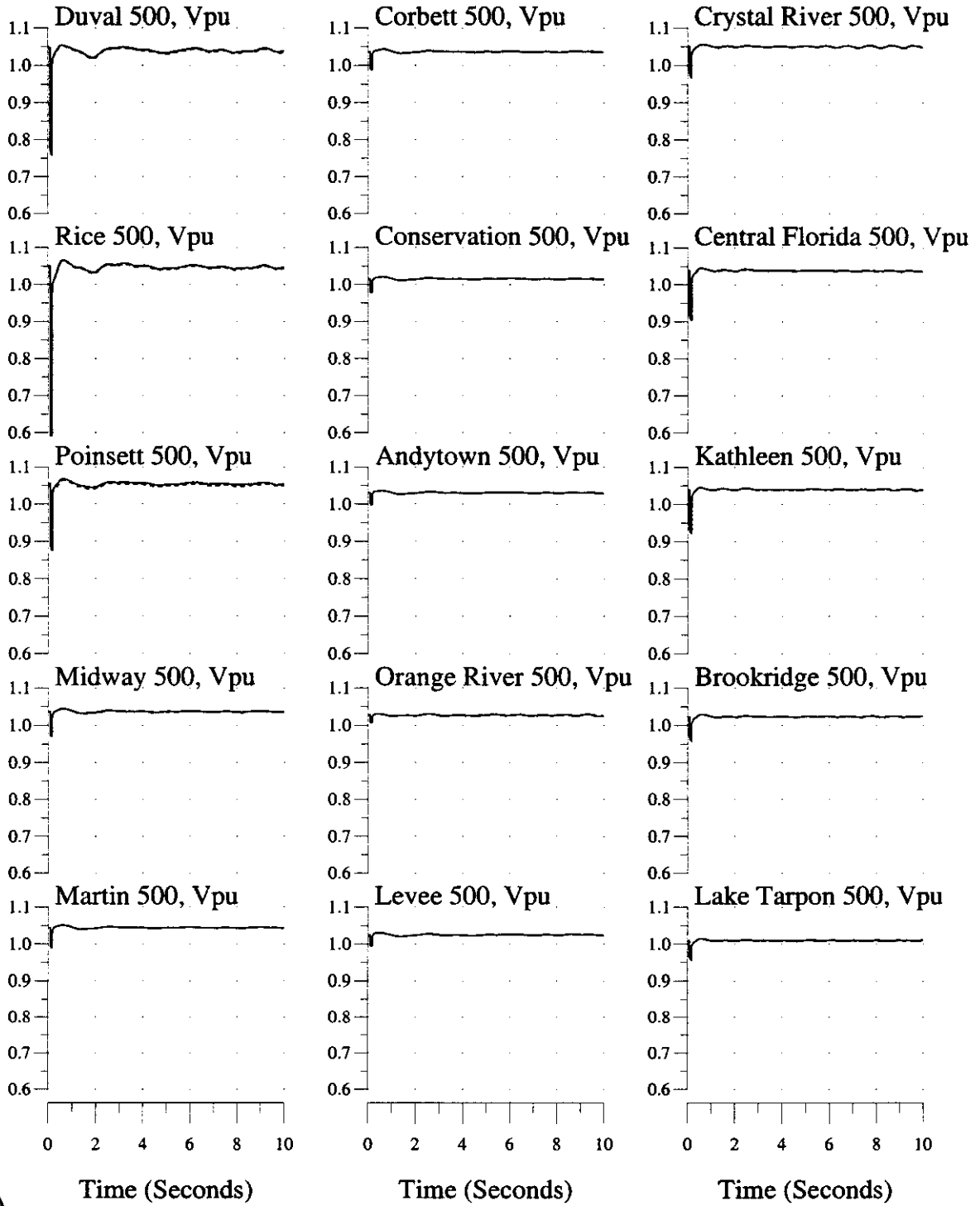
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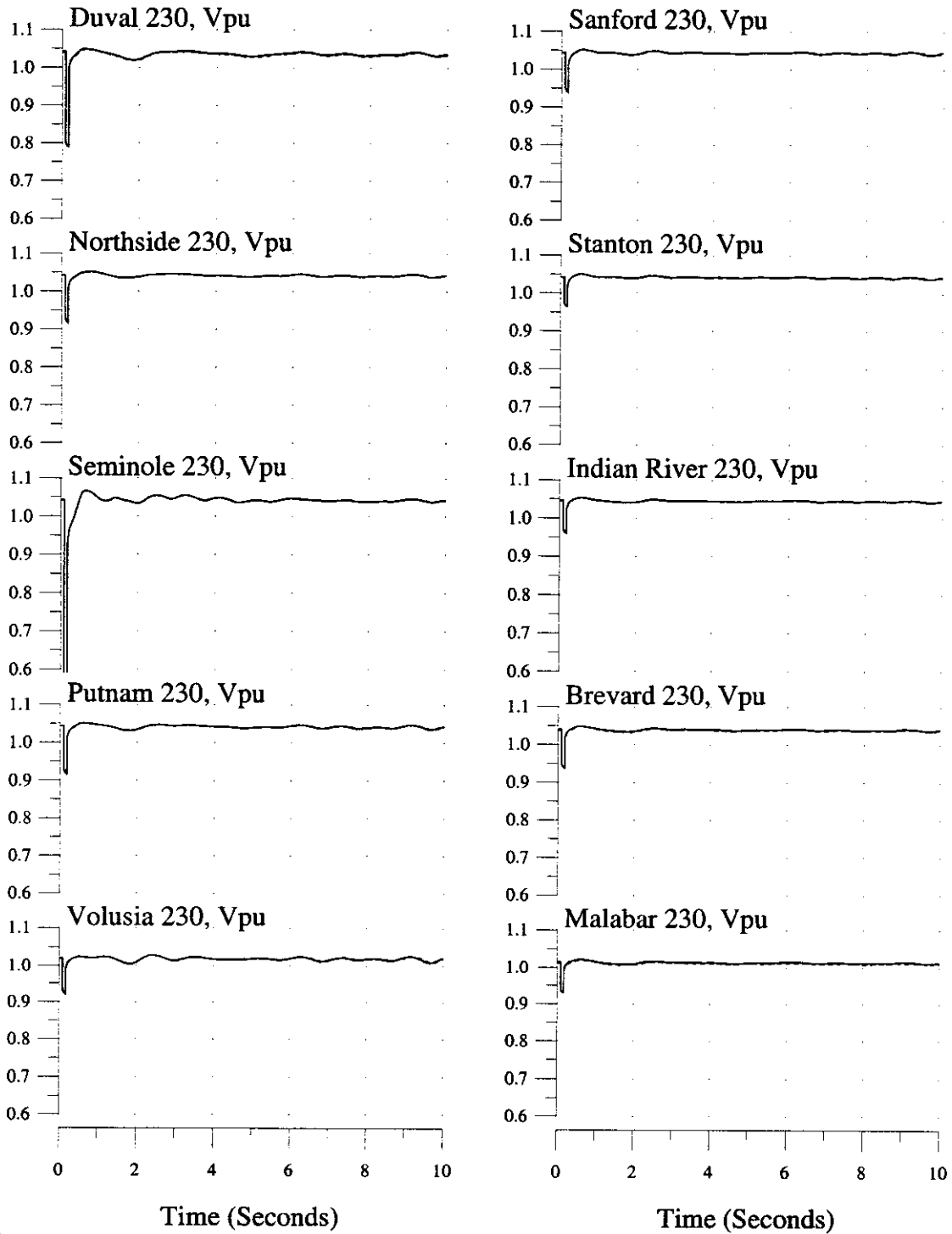
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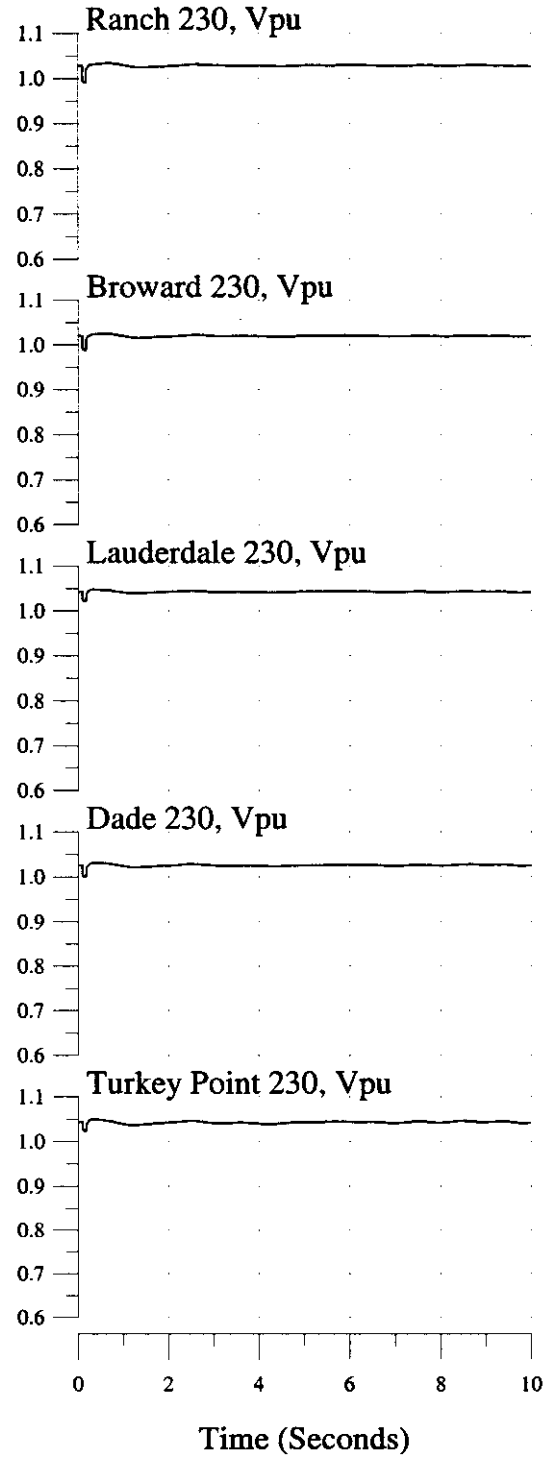
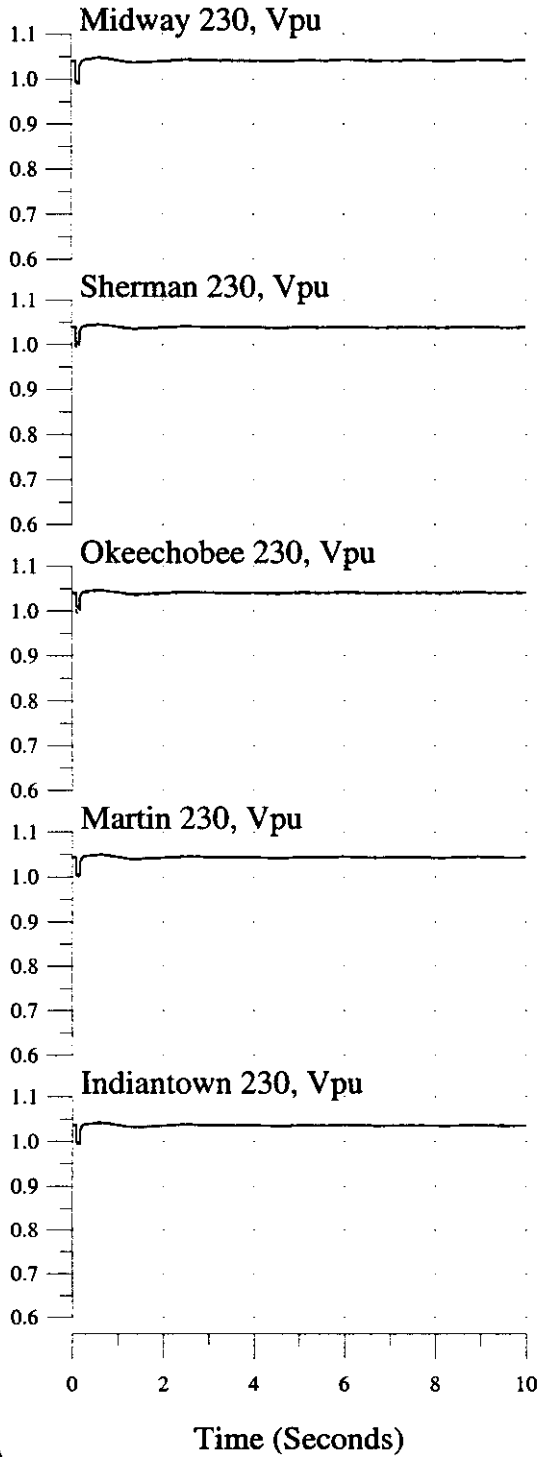
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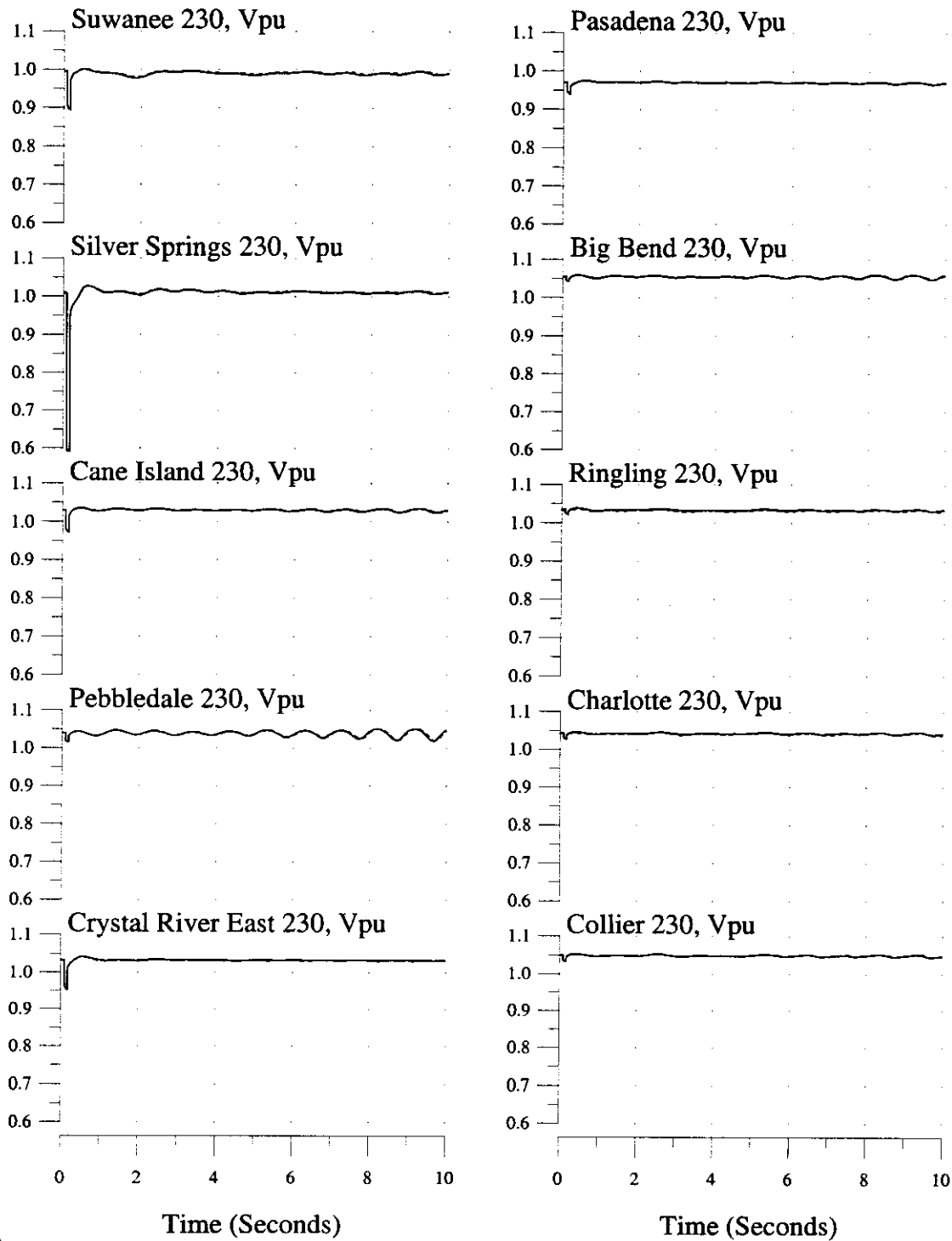
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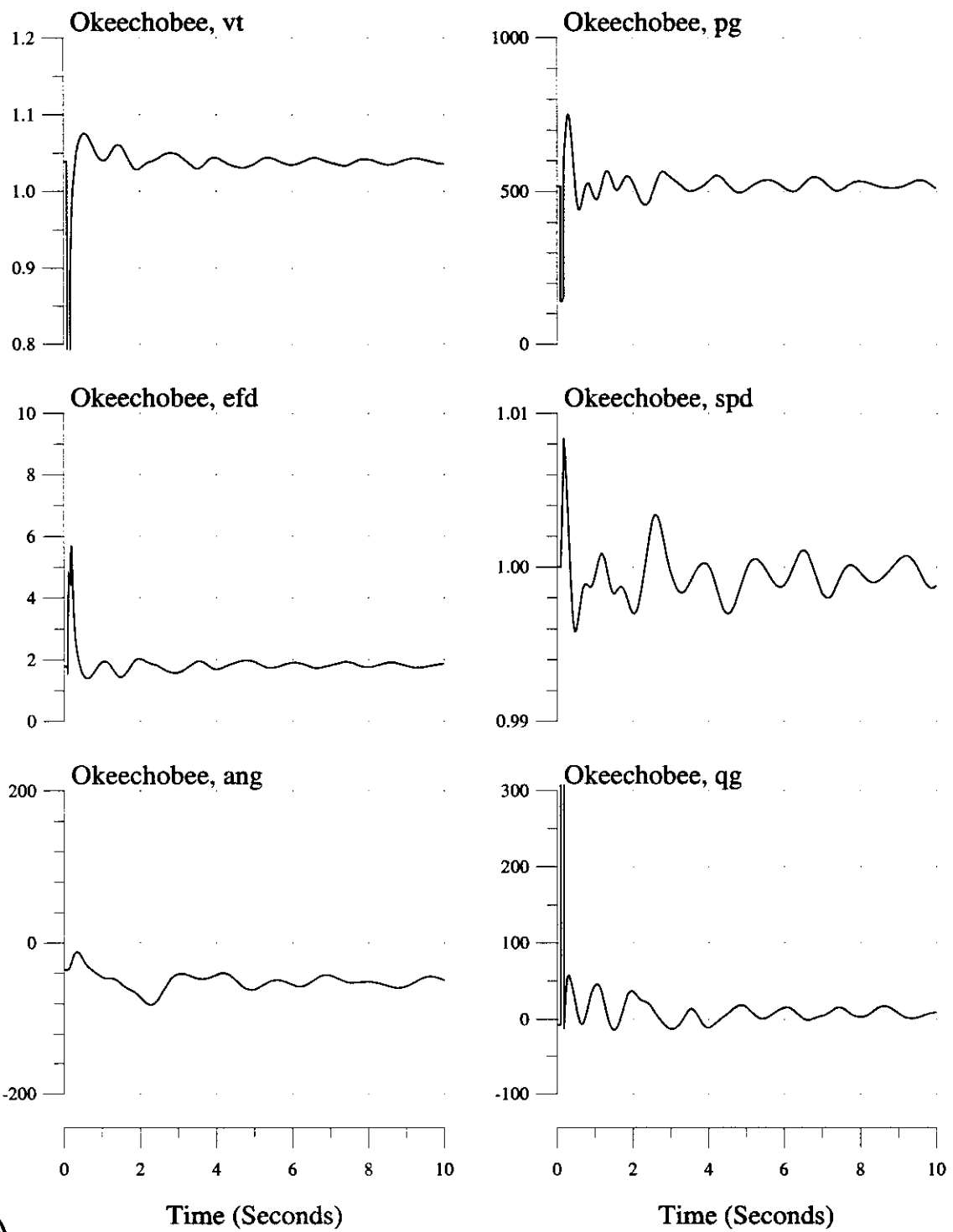
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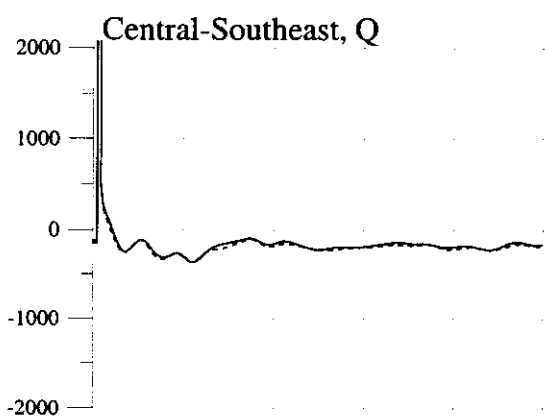
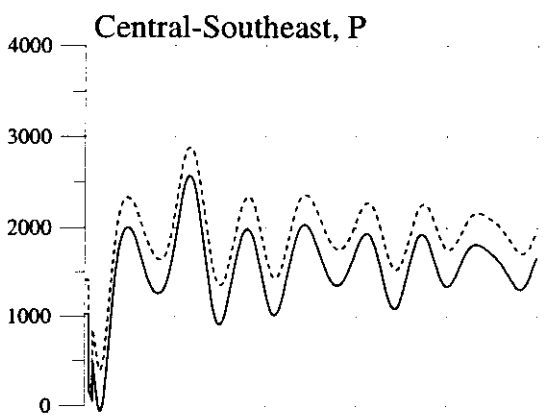
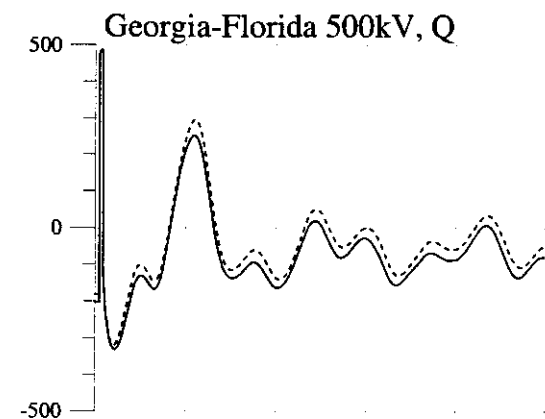
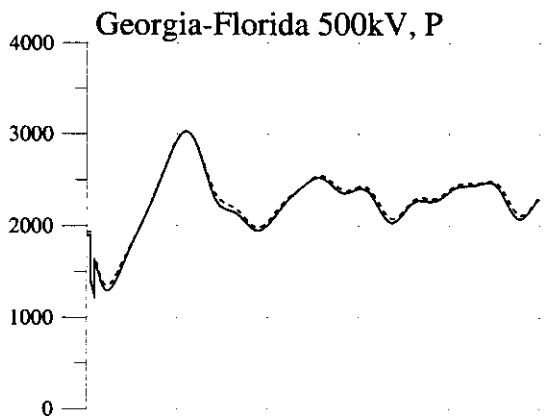
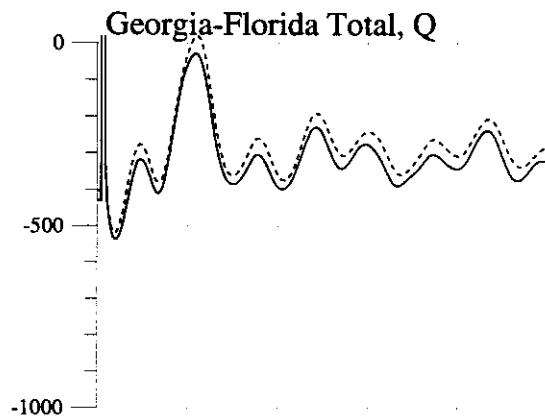
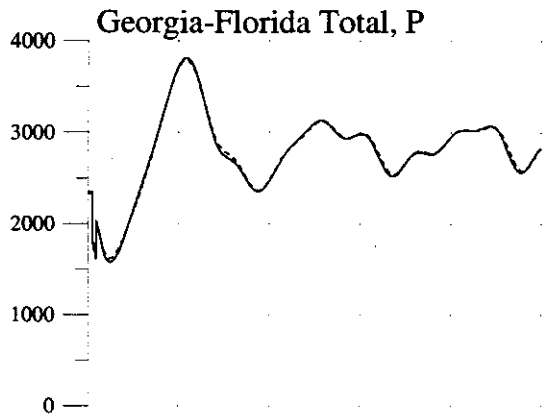
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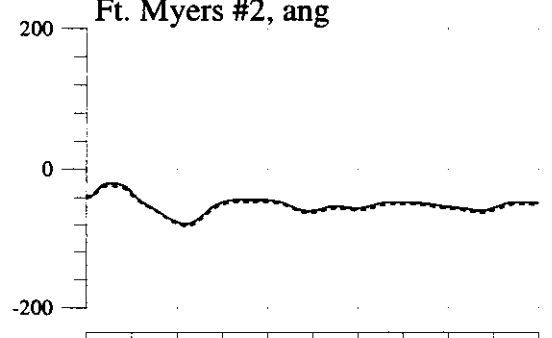
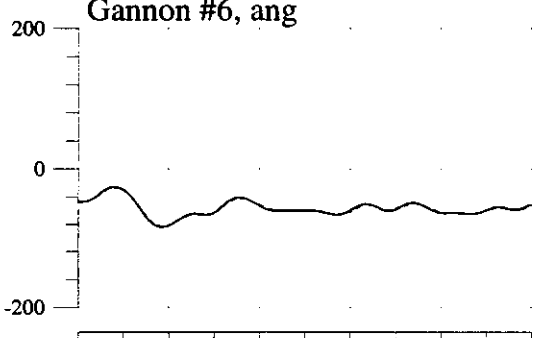
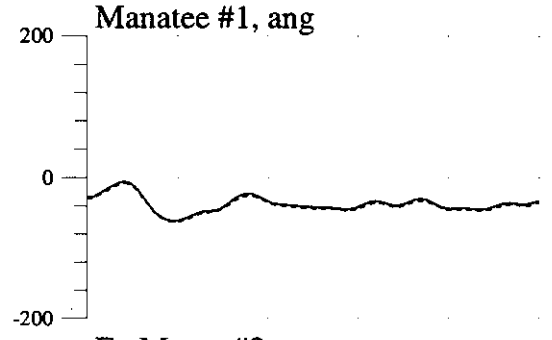
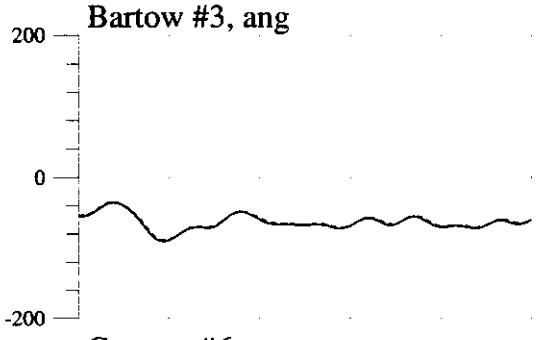
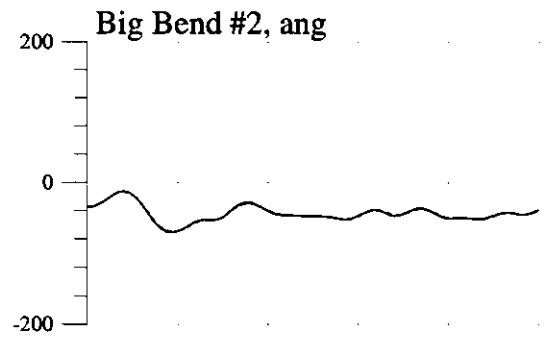
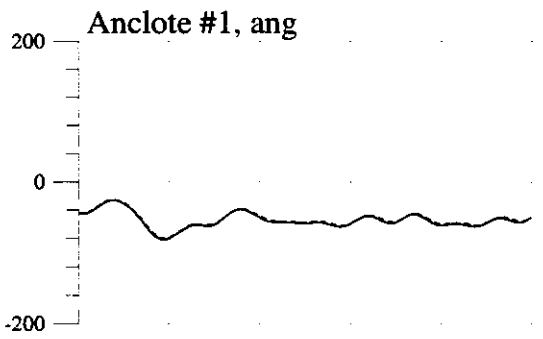
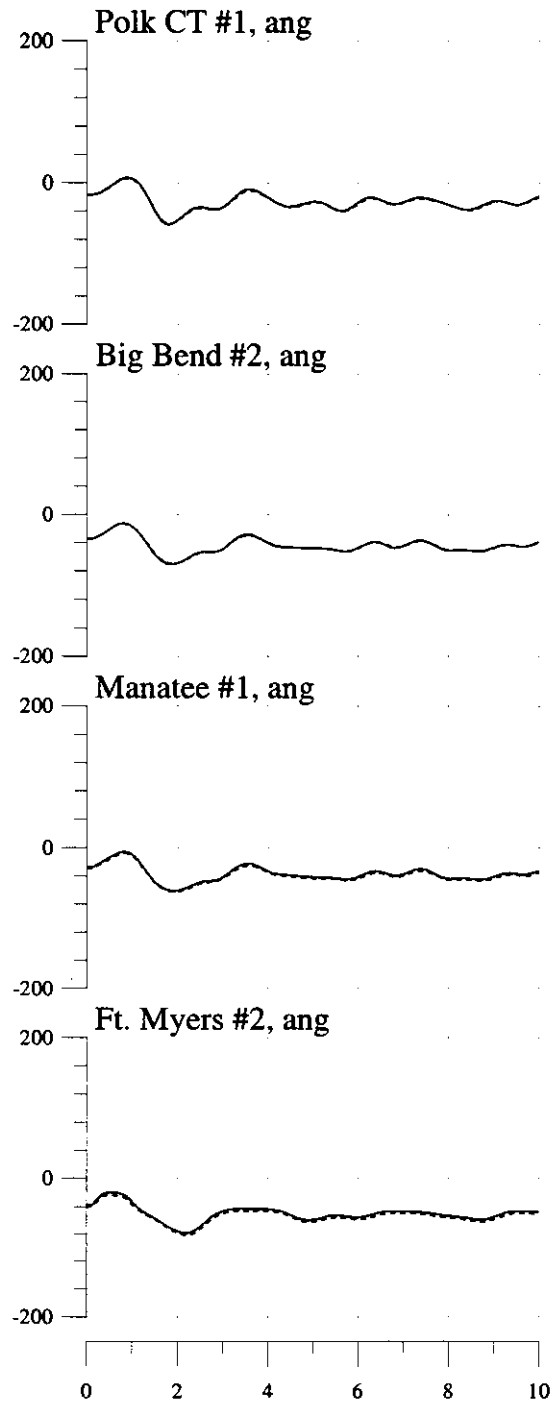
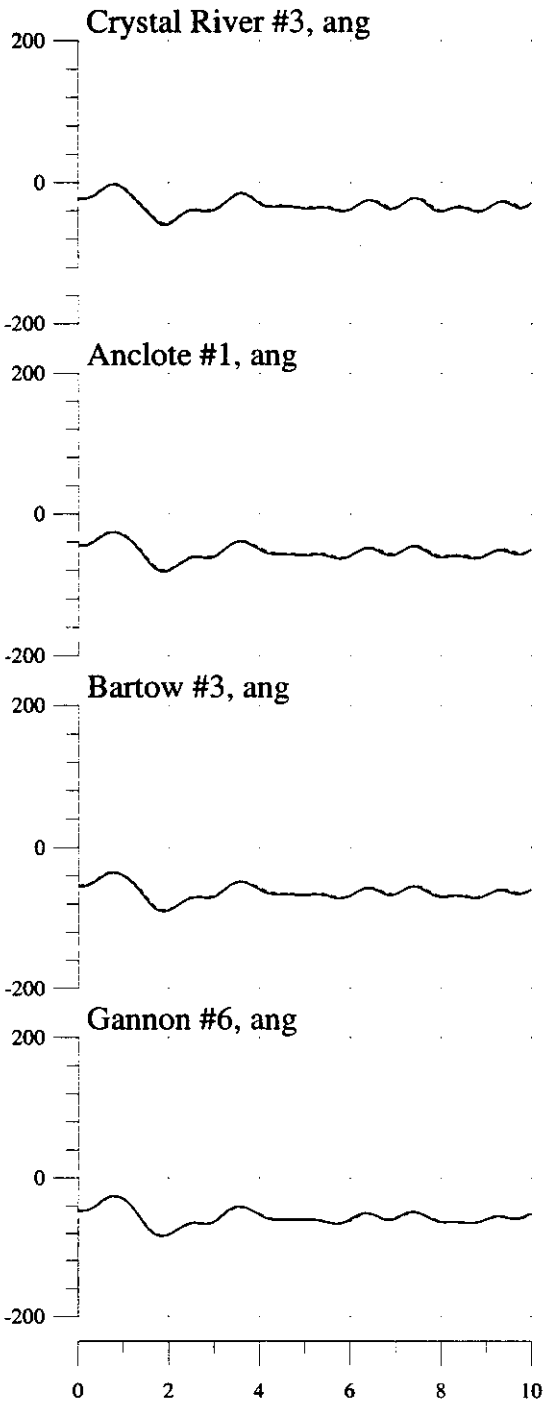
Time (Seconds)

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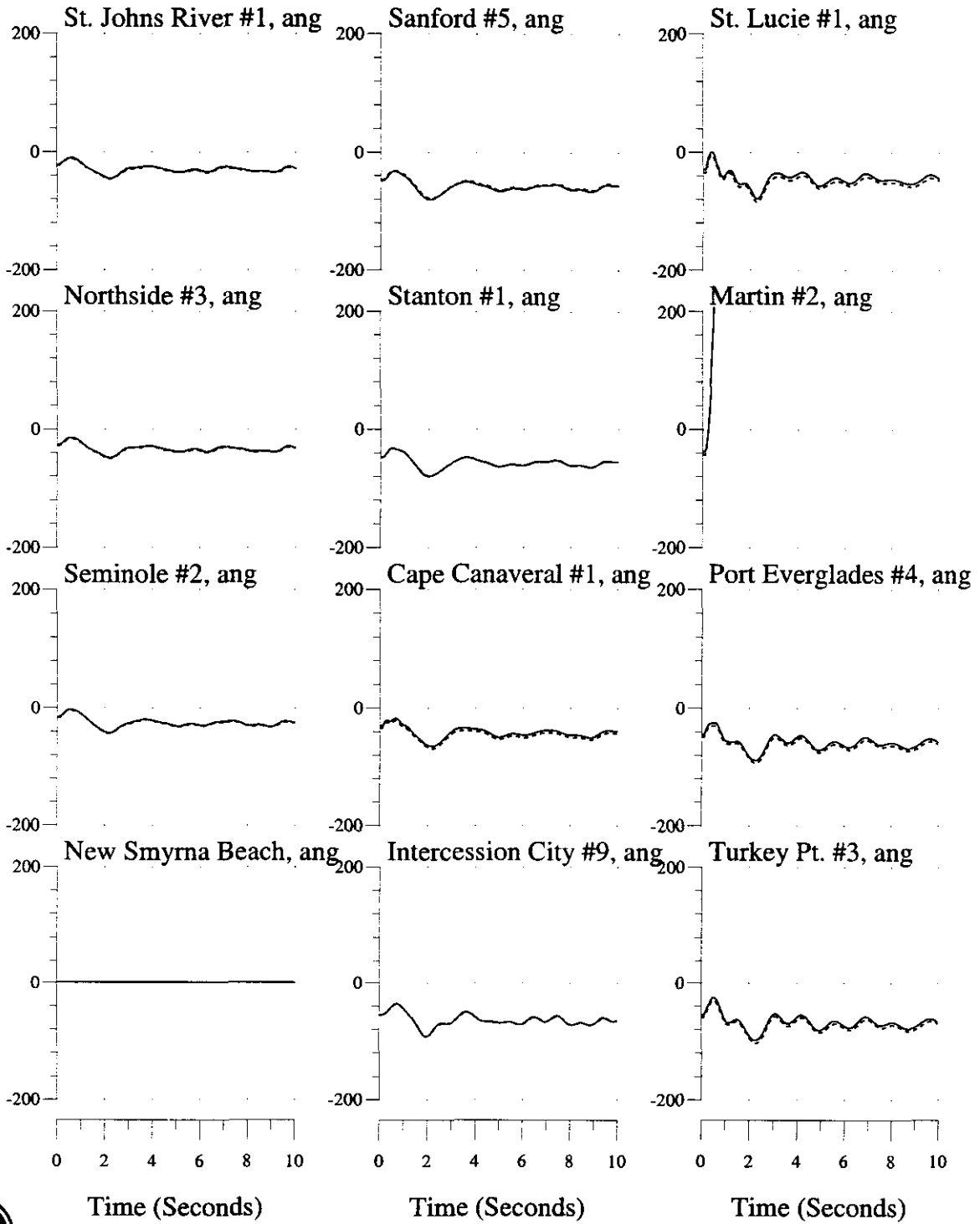
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2003 Summer System

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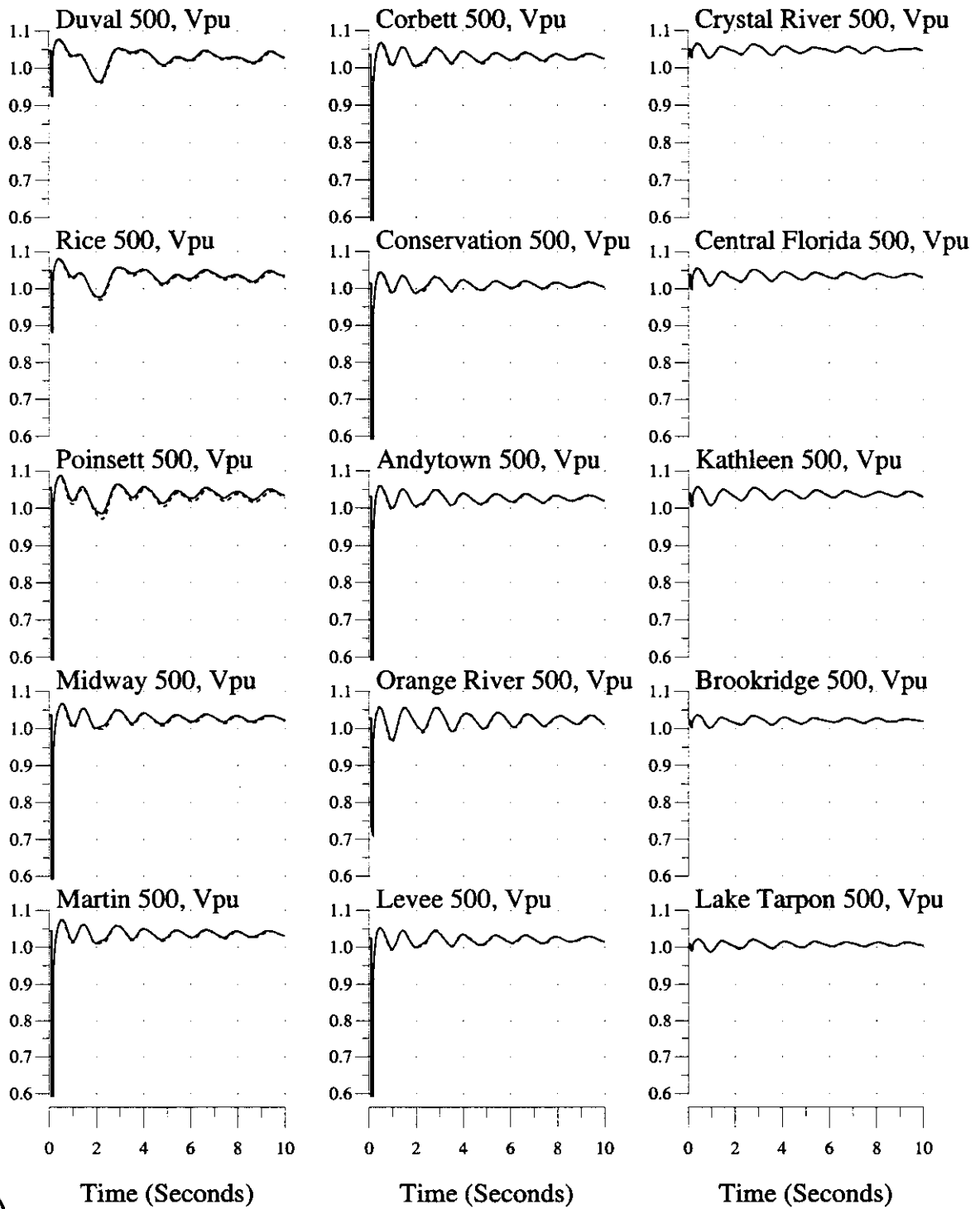
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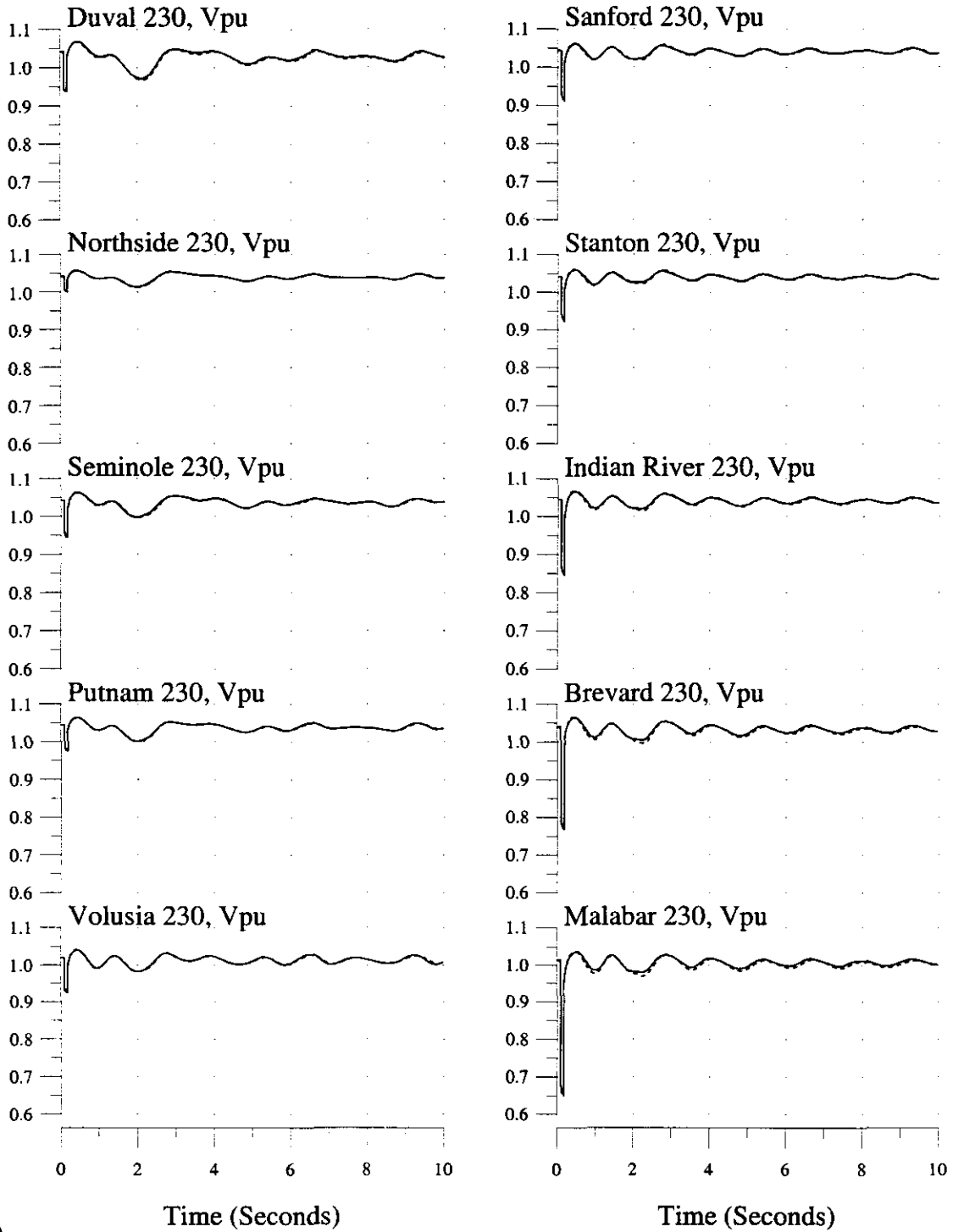
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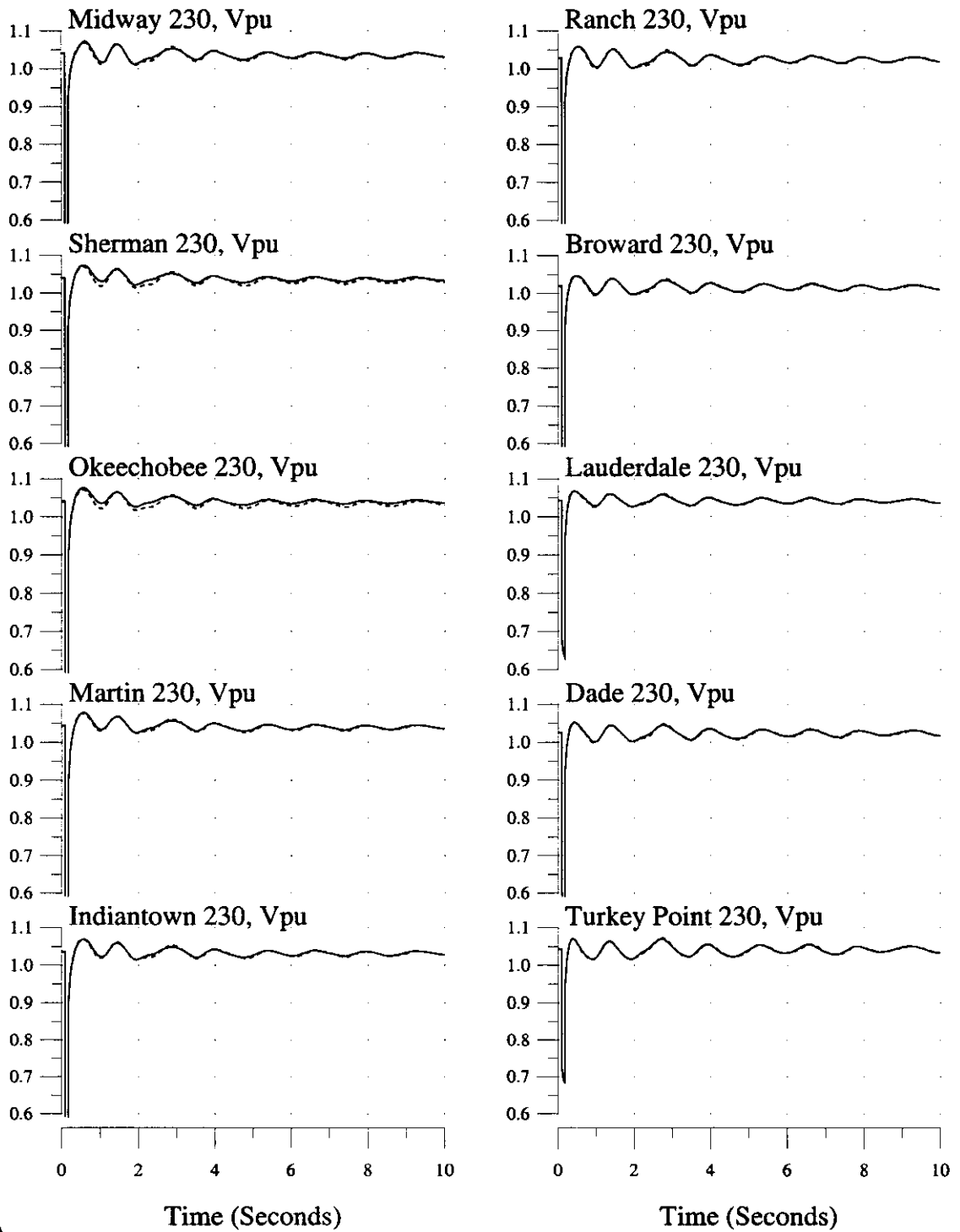
Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without





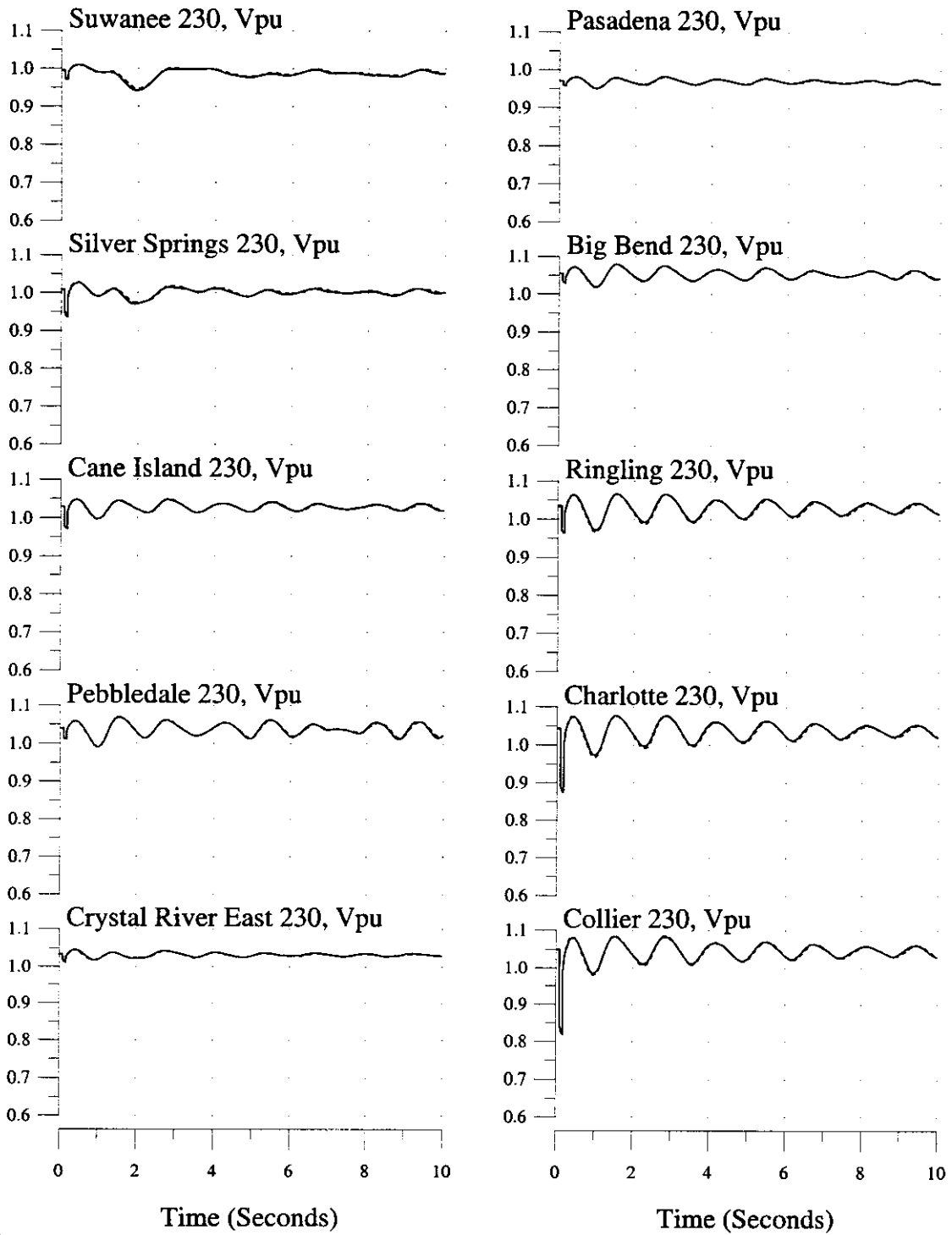
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without

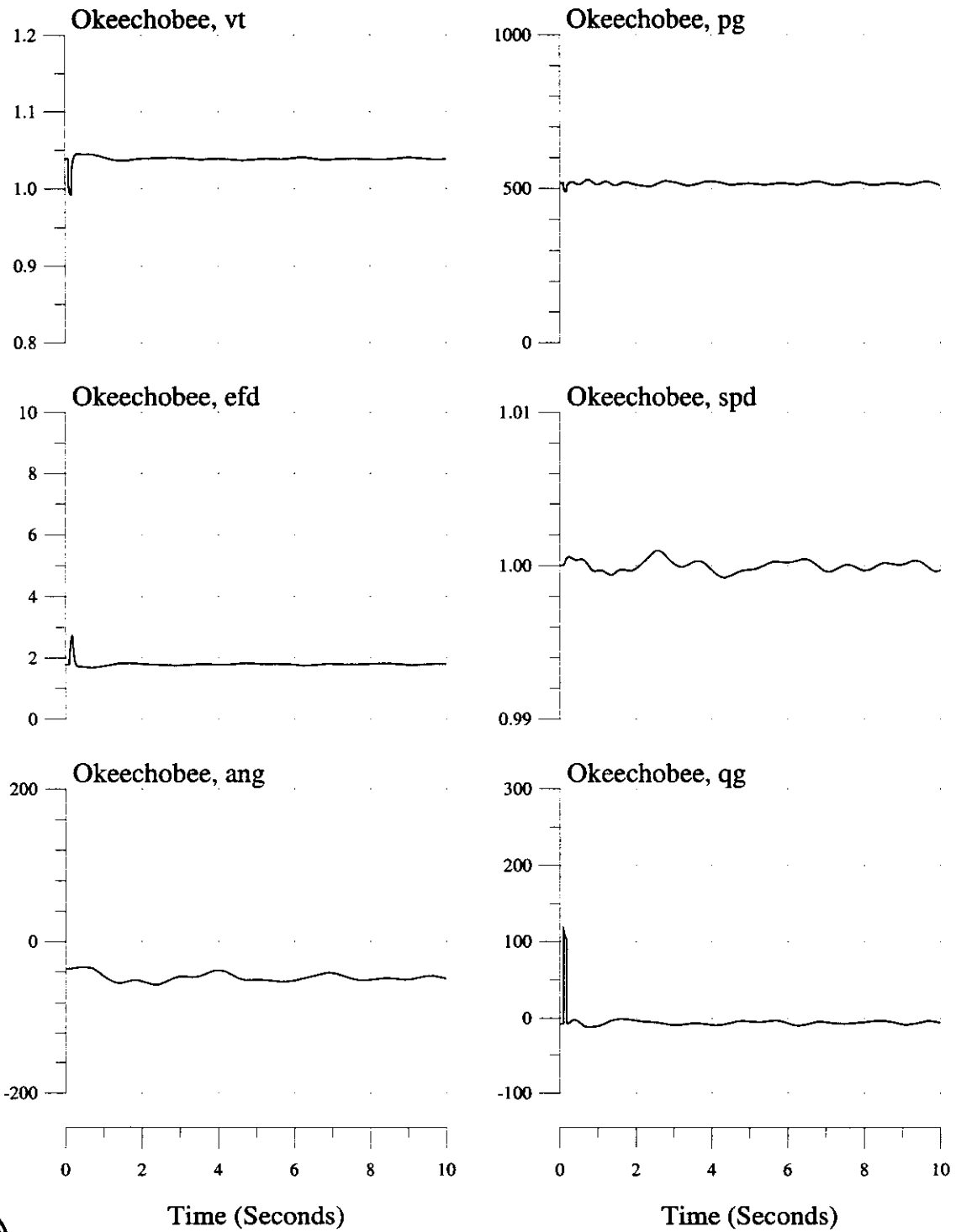


3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Summer System

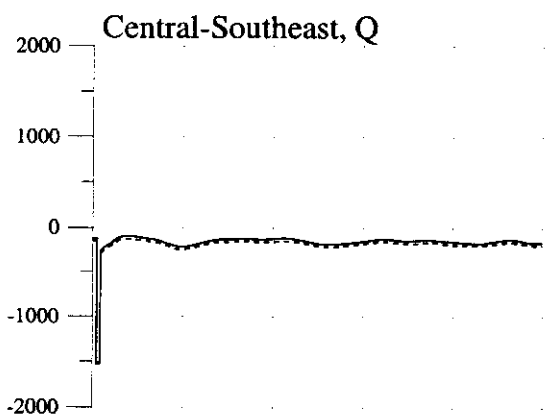
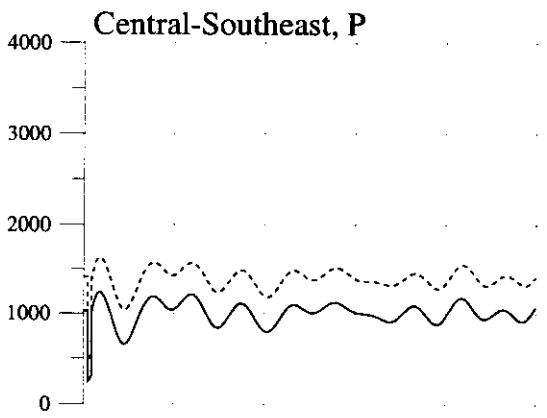
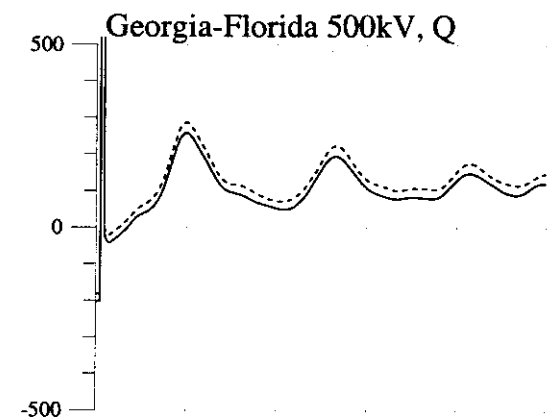
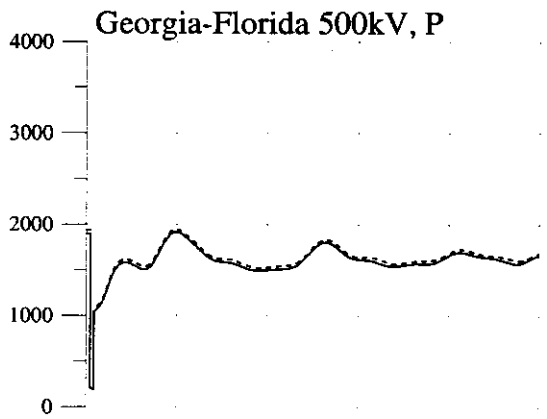
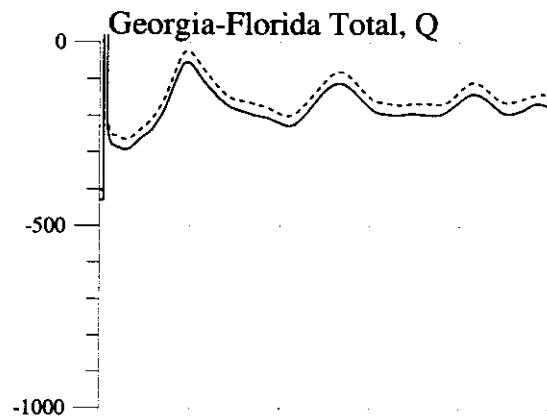
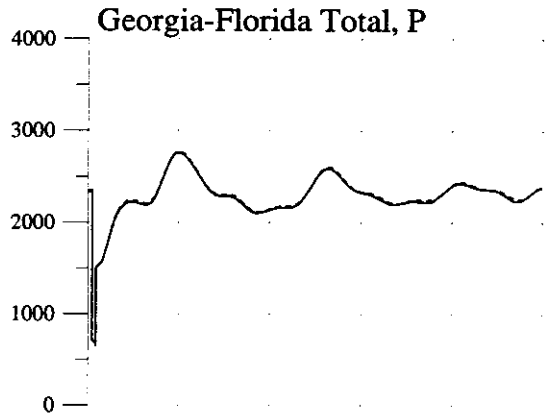
Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Summer System  
 Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Summer System  
 Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



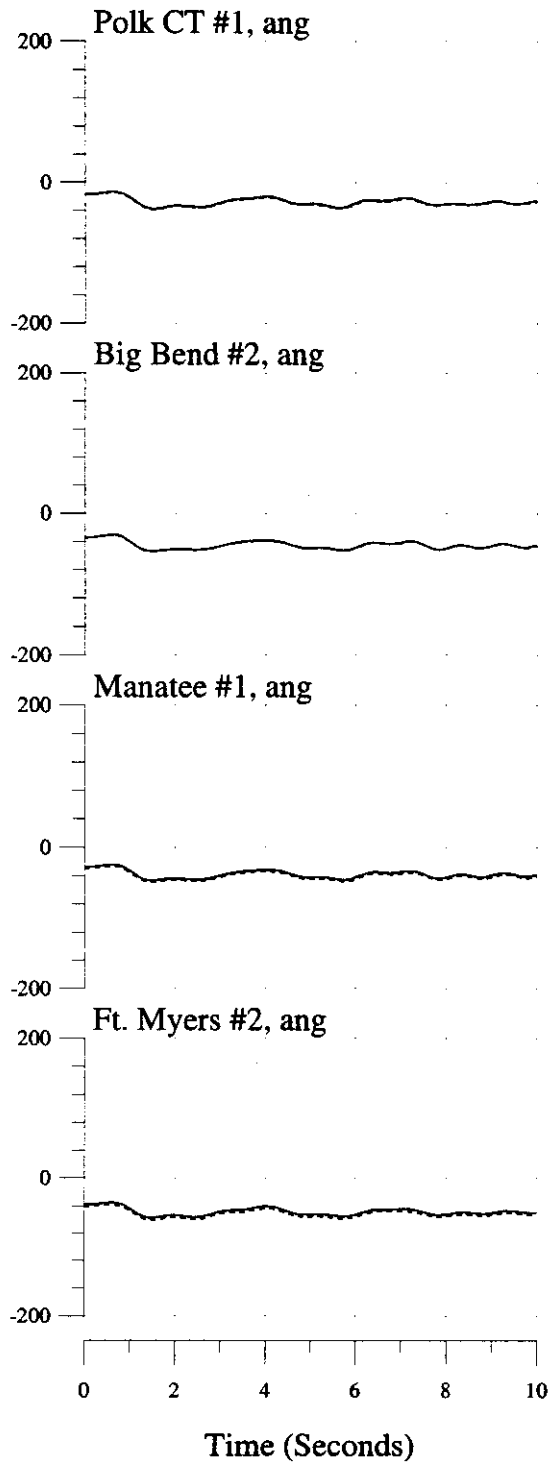
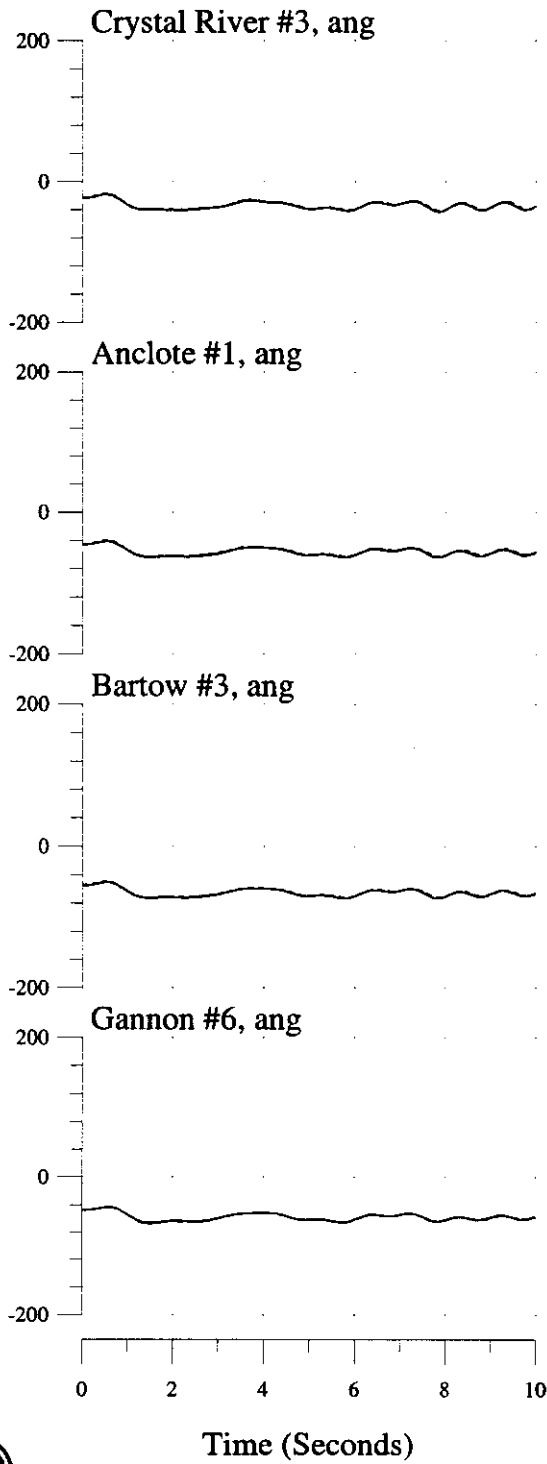
Time (Seconds)

Time (Seconds)



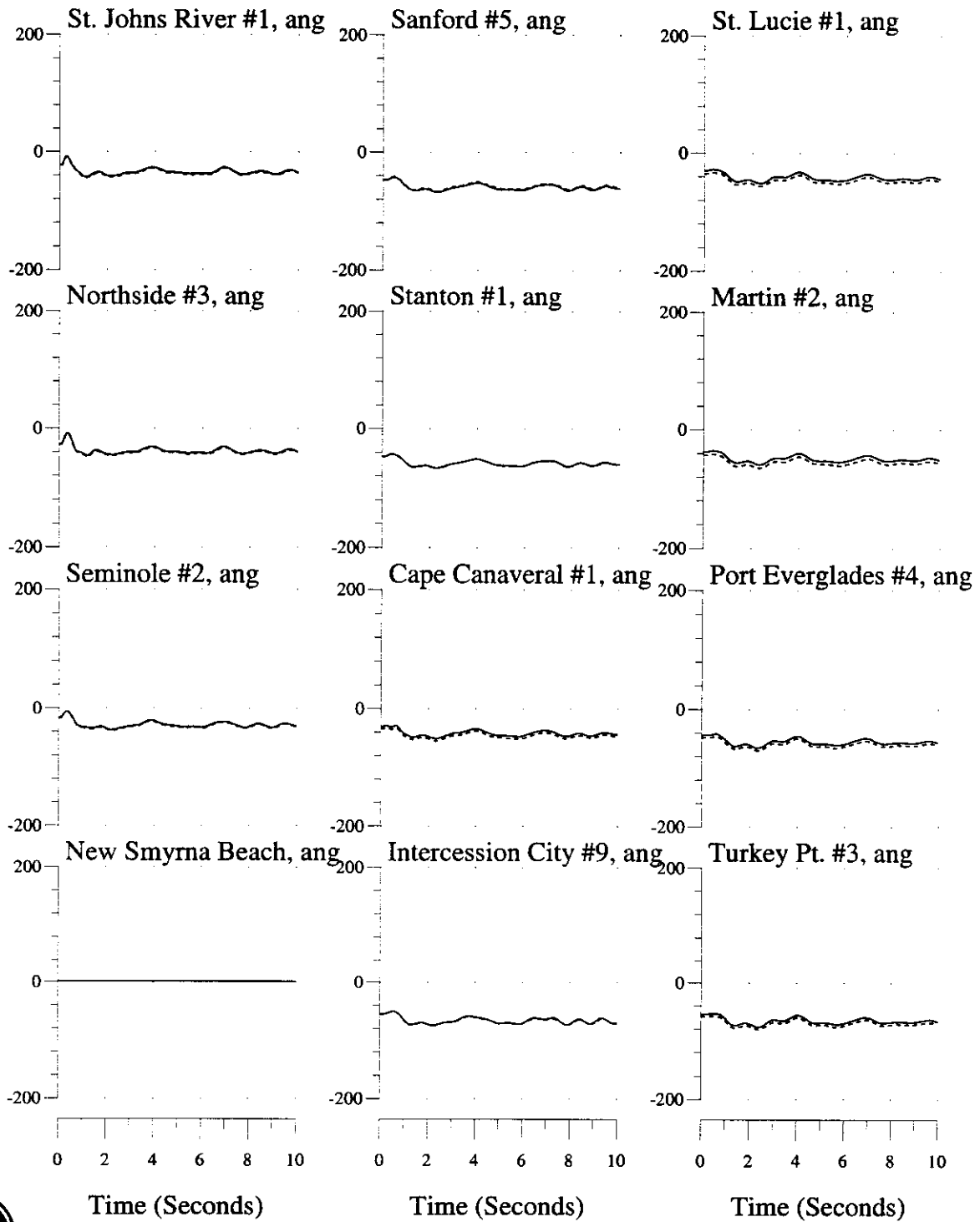
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



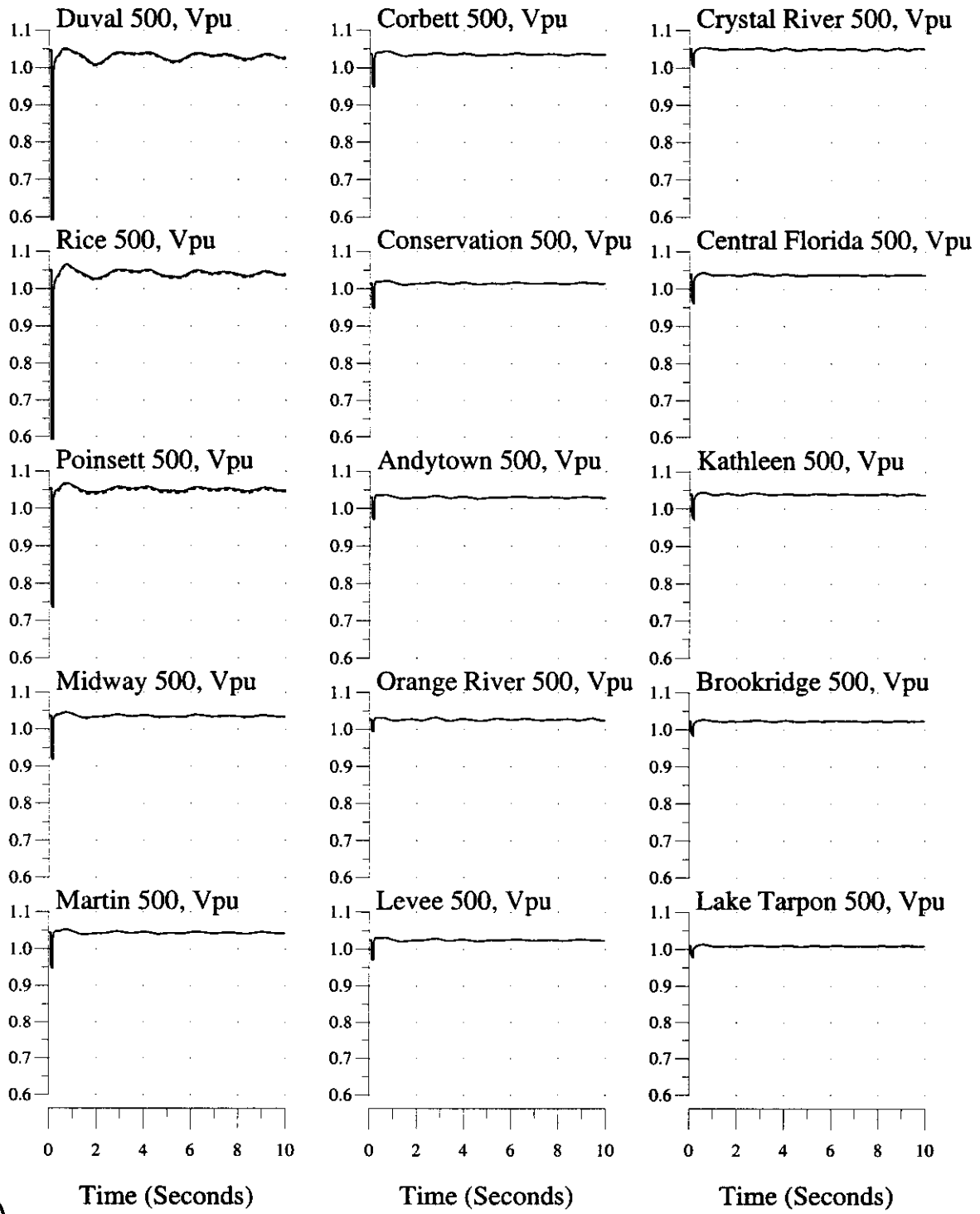
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



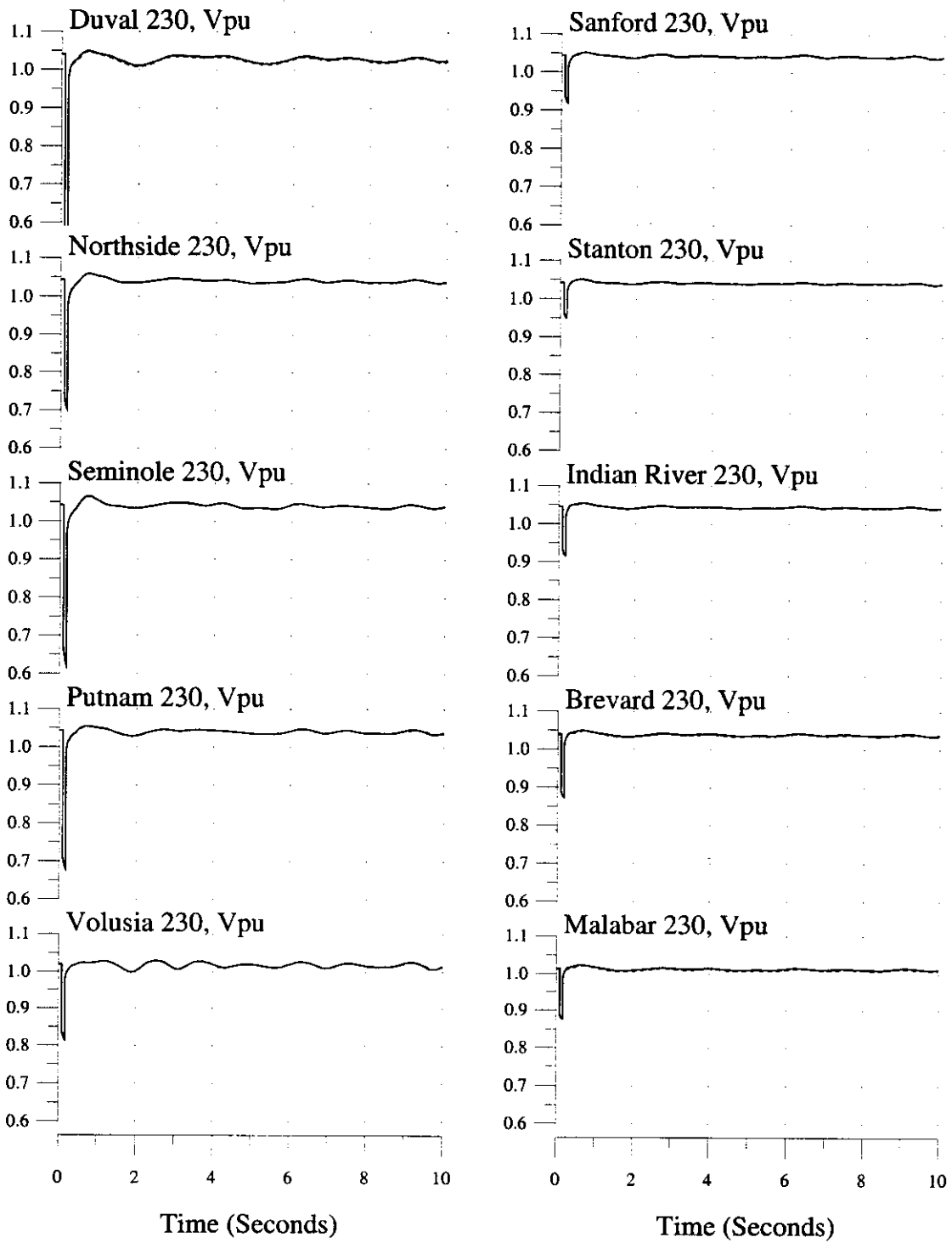
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Summer System

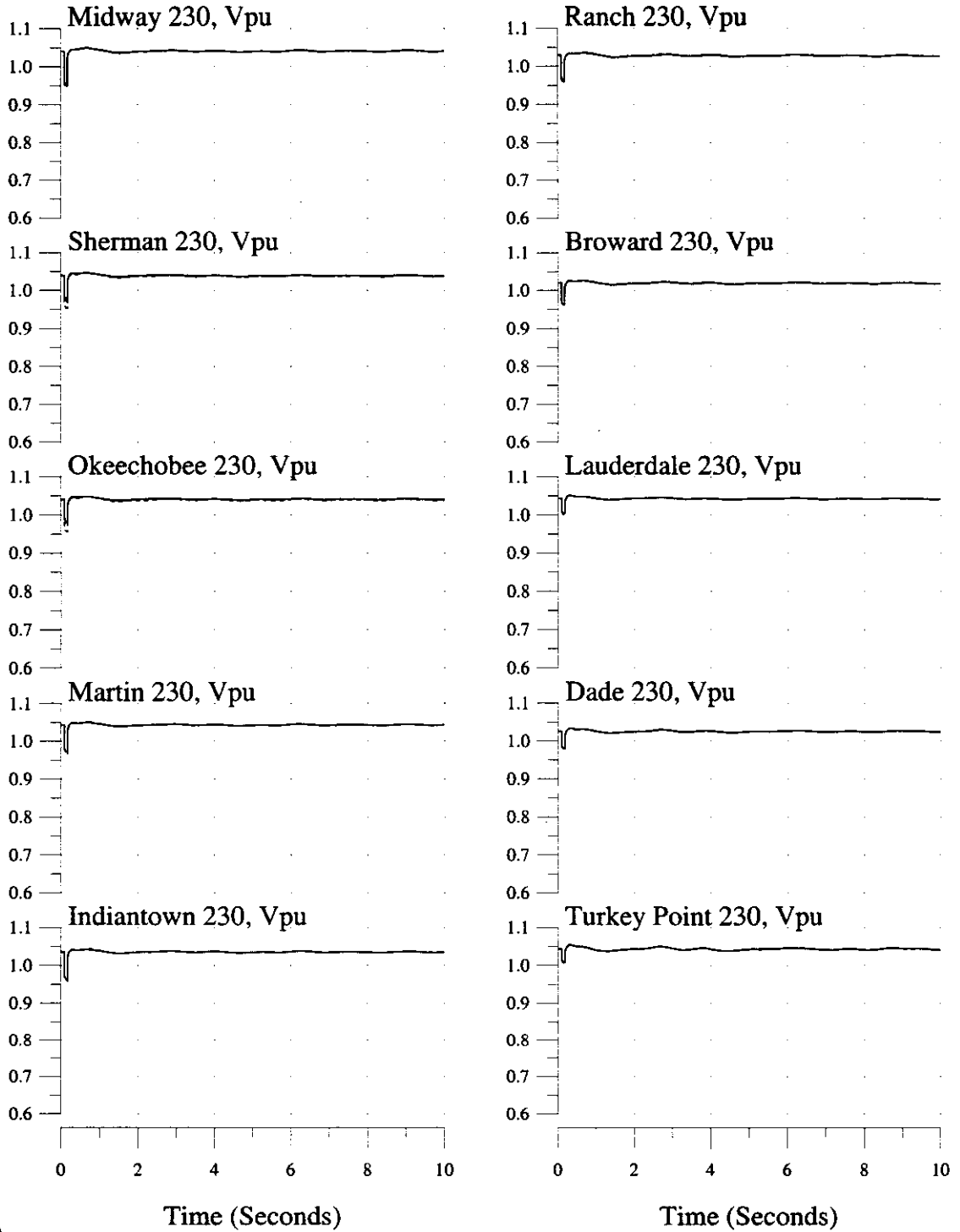
Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without





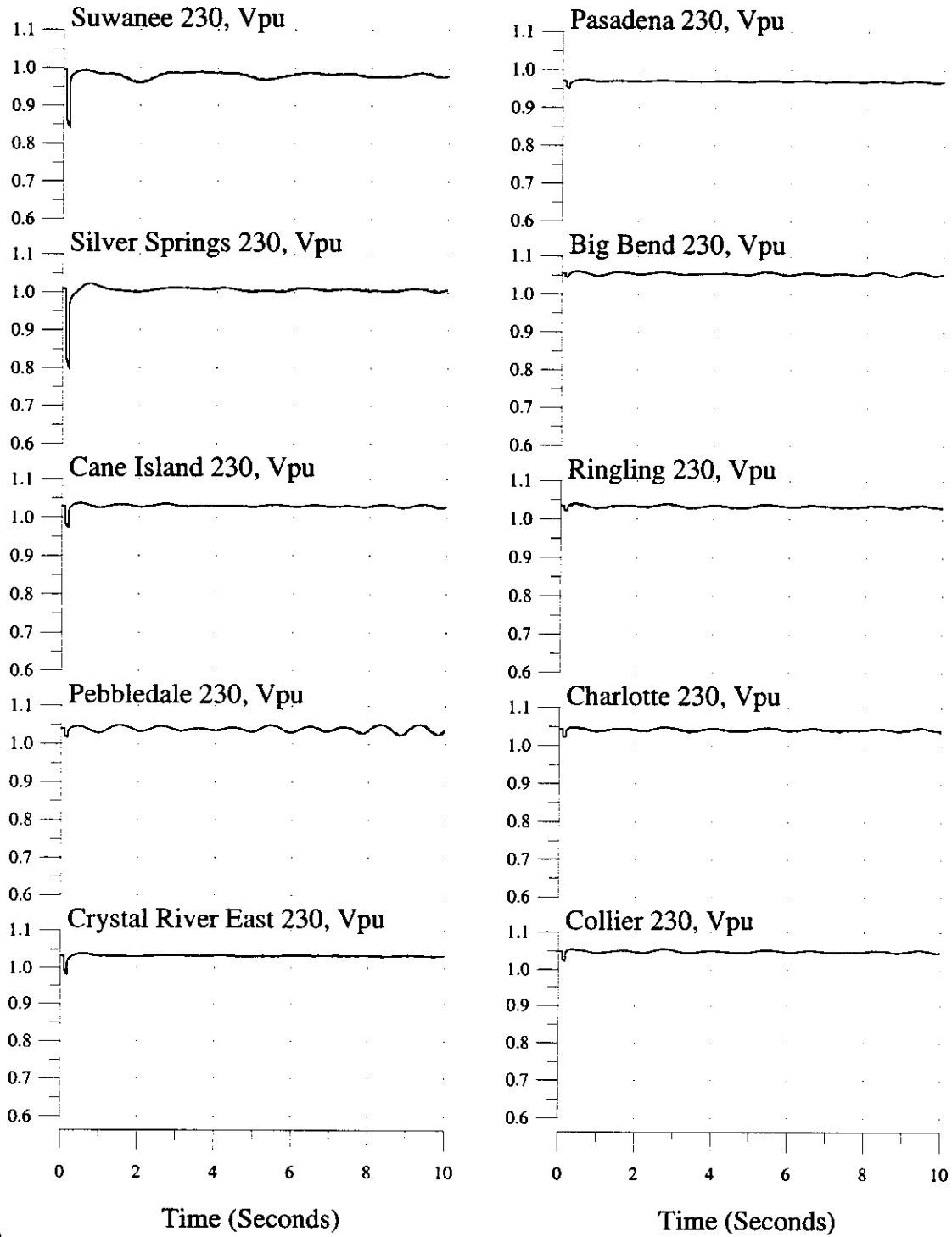
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Summer System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



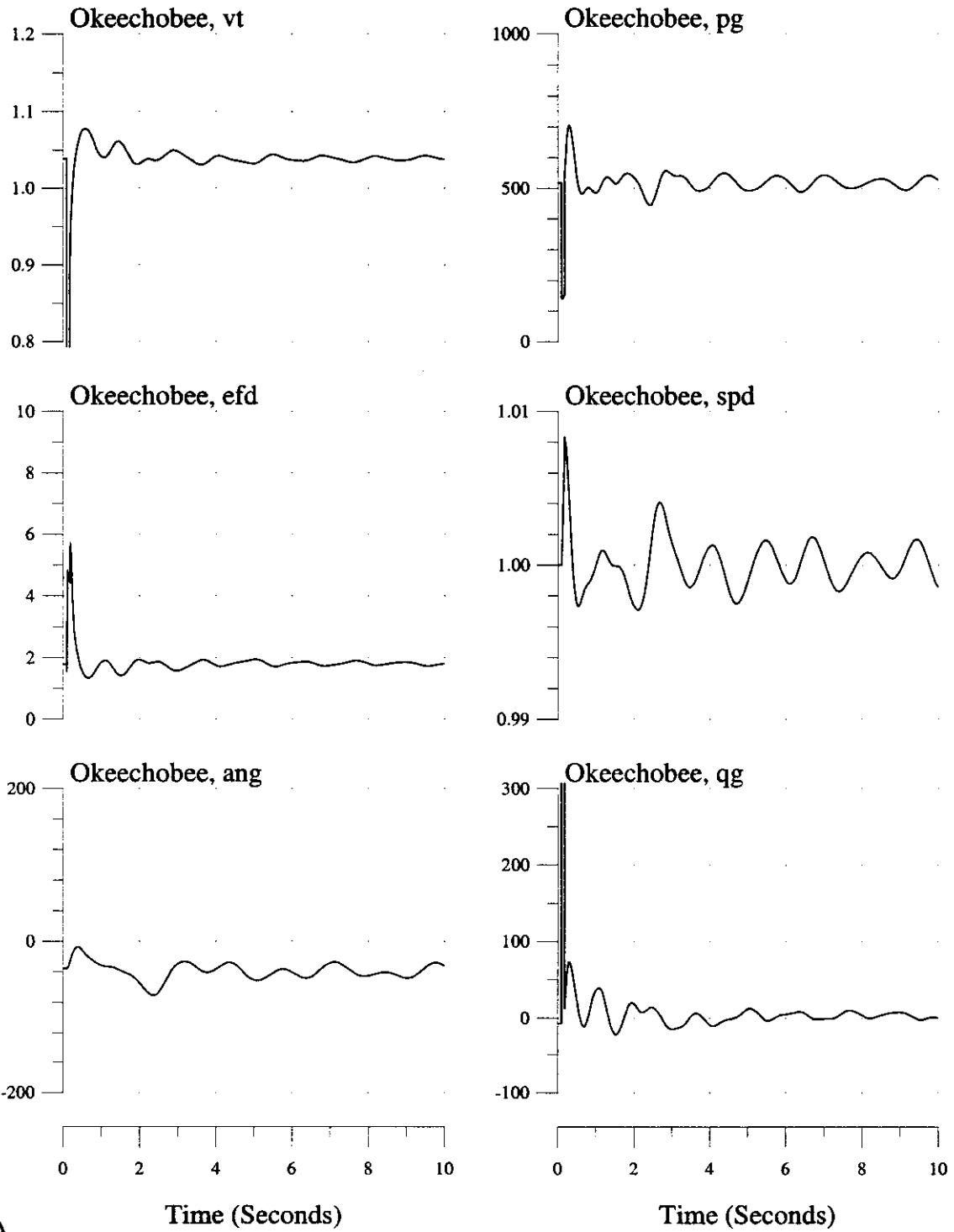
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Summer System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



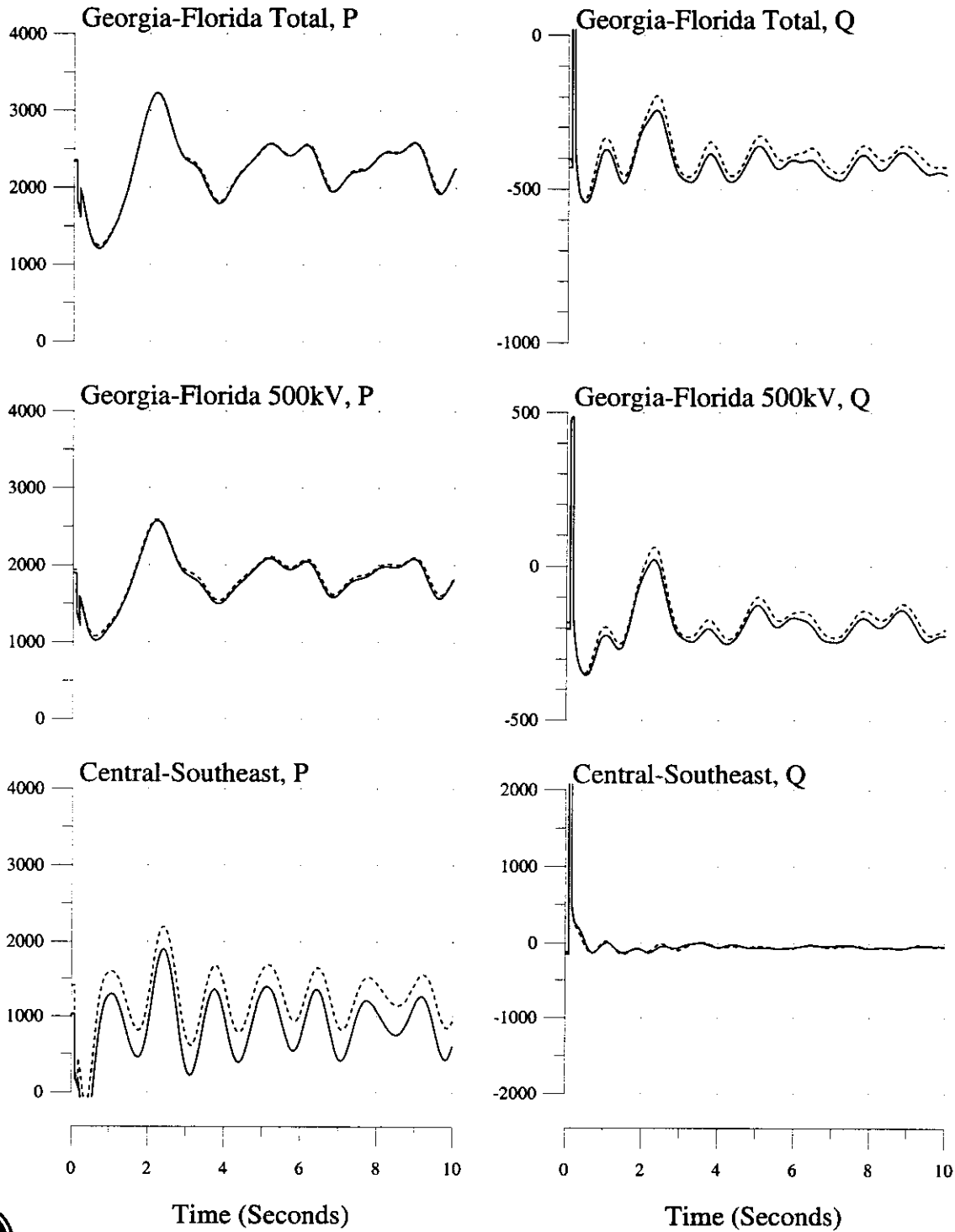
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Summer System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



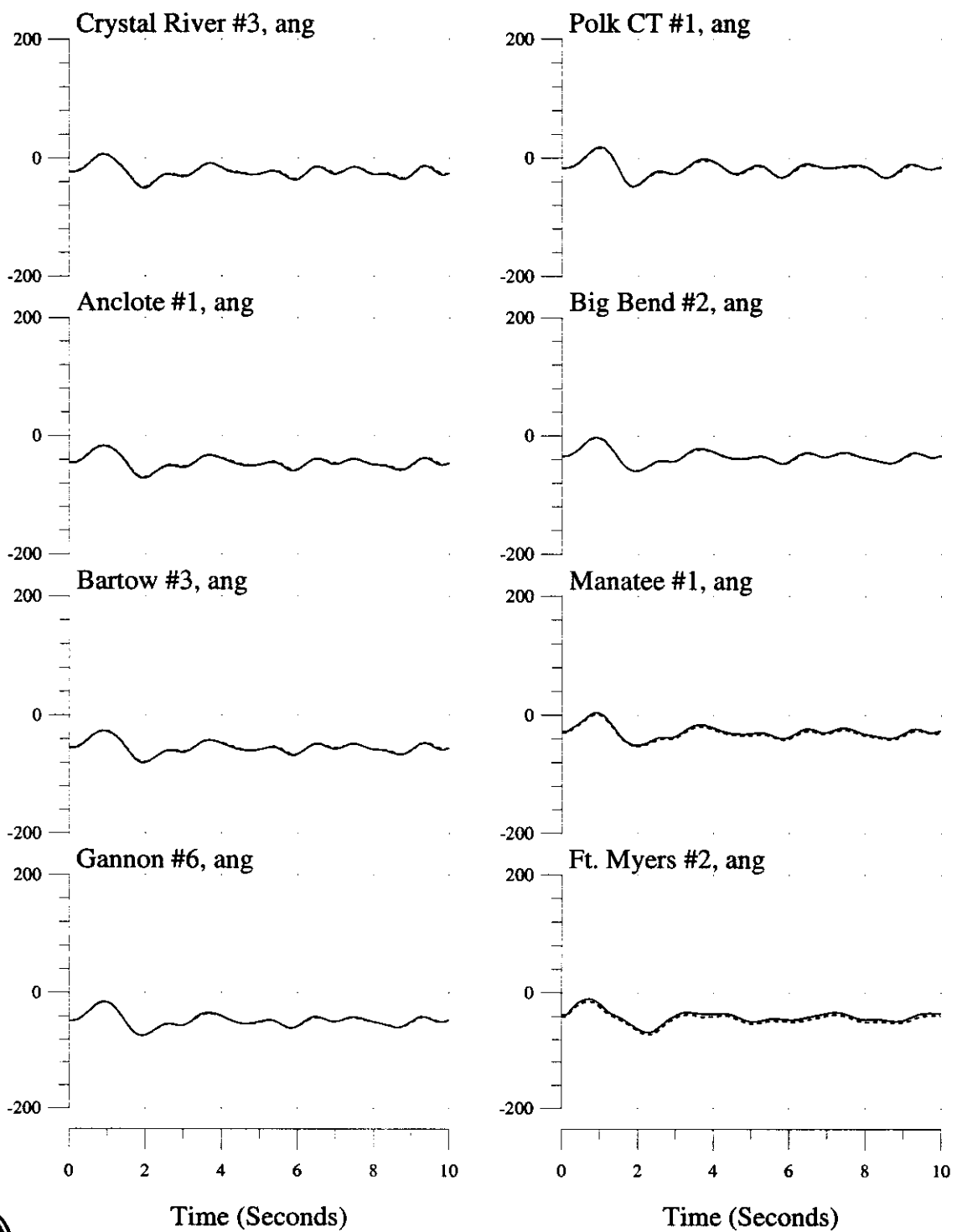
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Summer System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



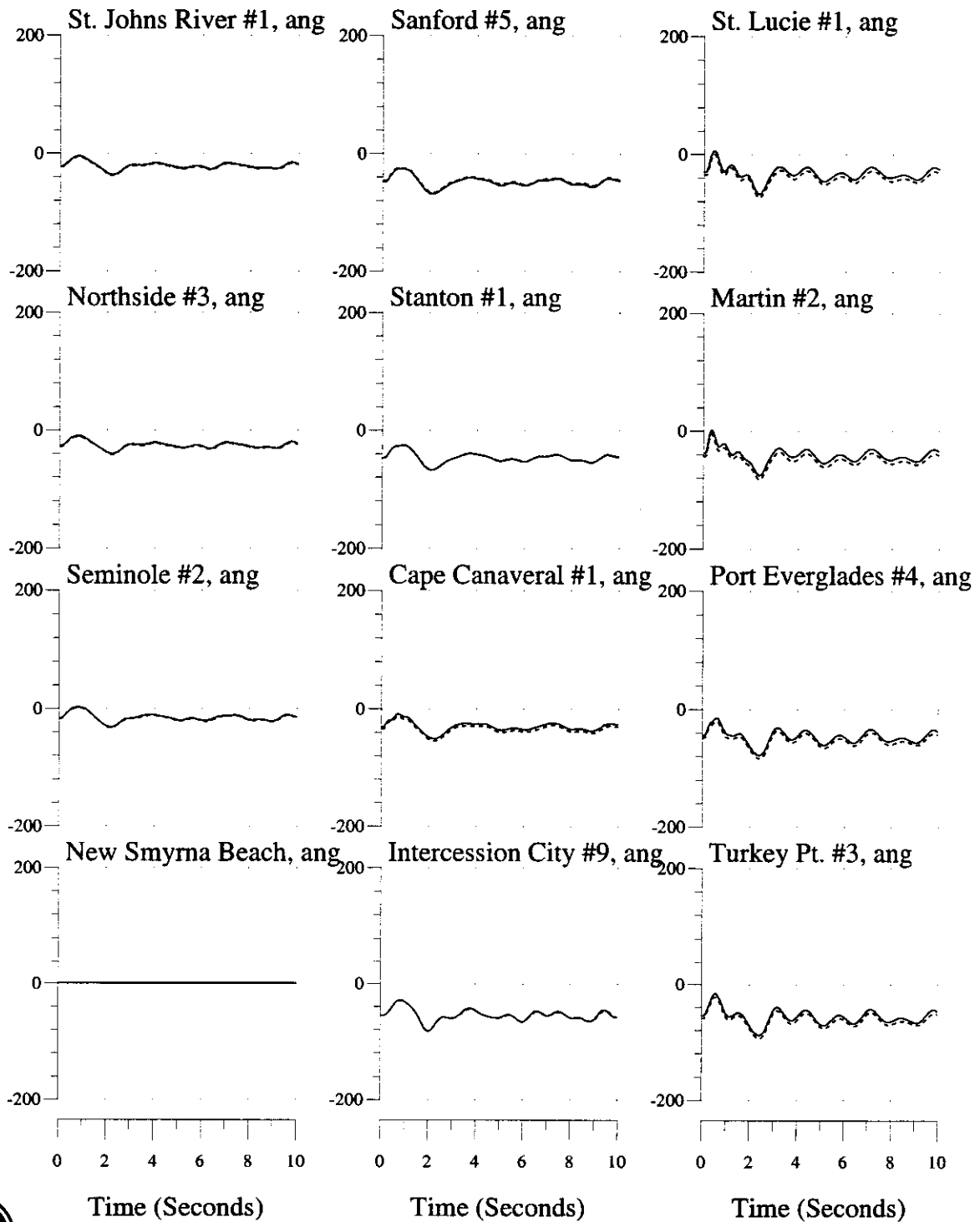
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



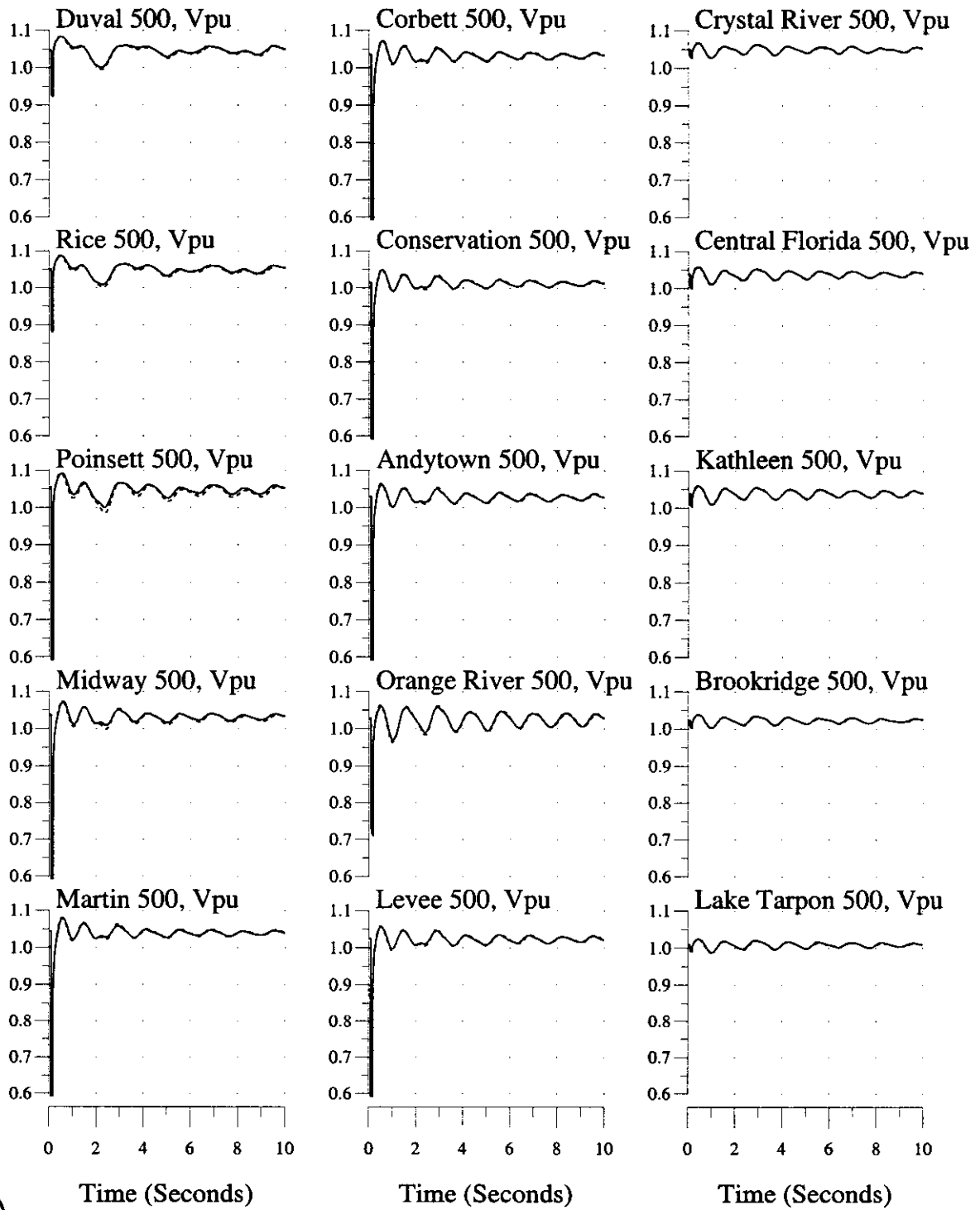
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



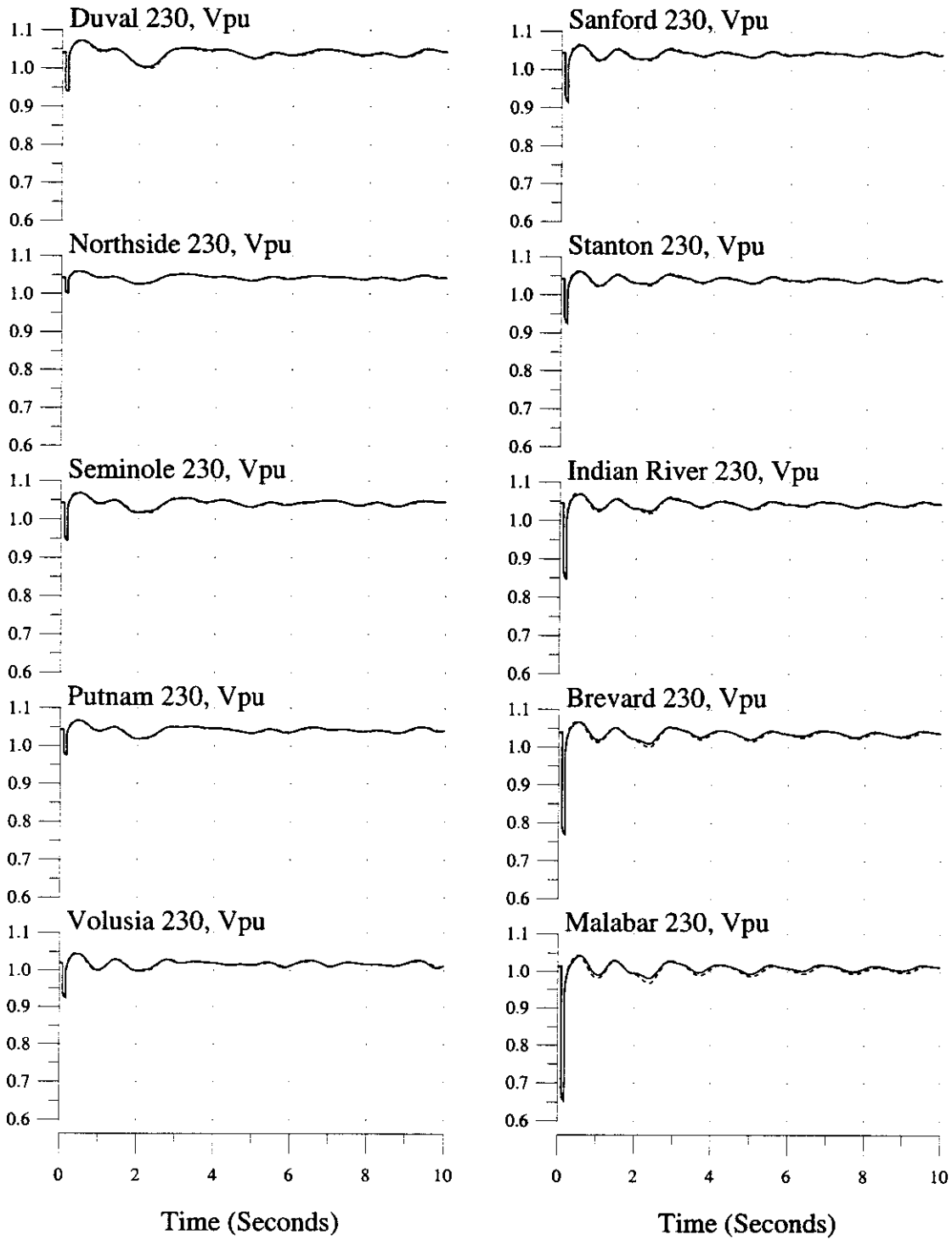
### 3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line 2003 Summer System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



### 3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line 2003 Summer System

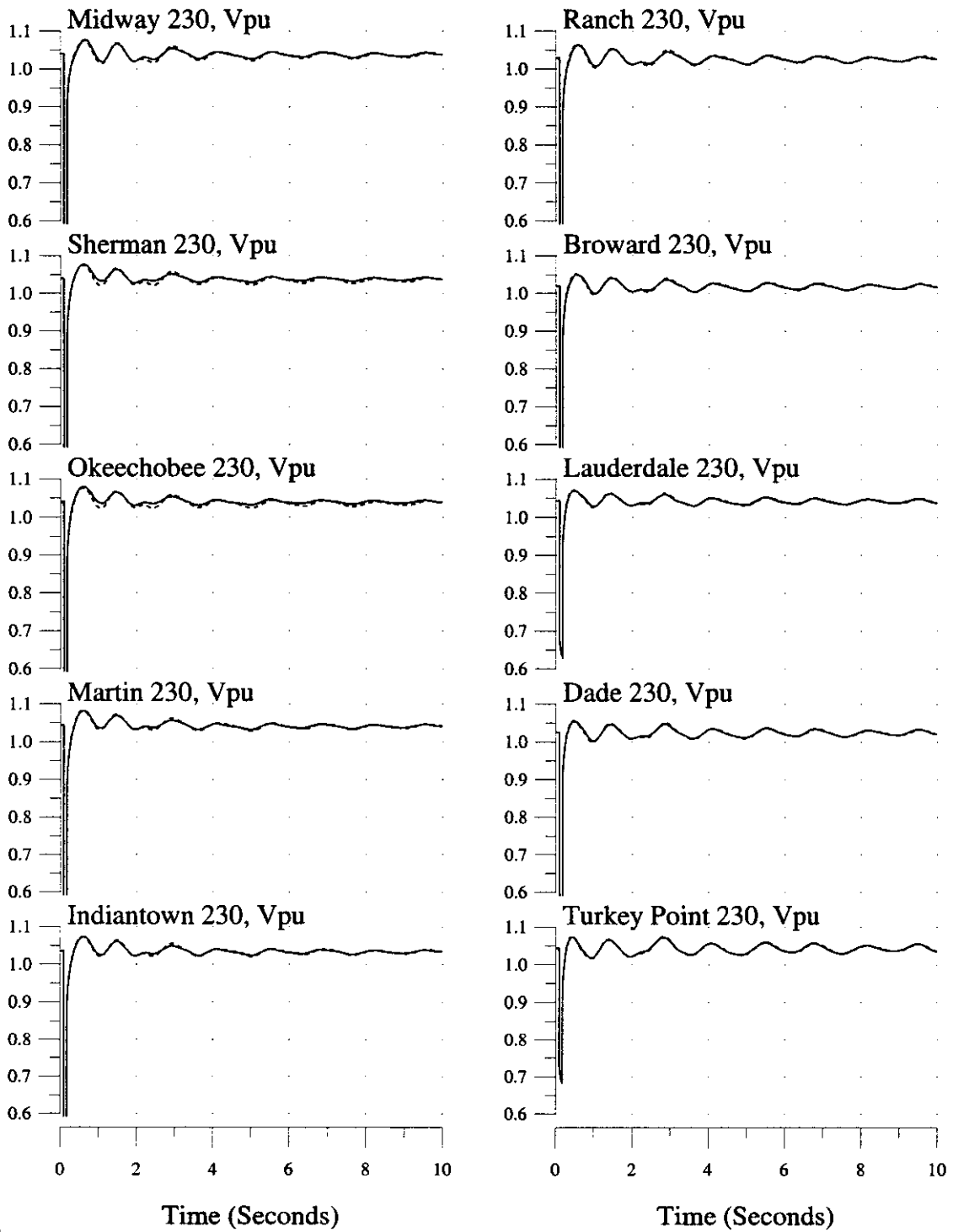
Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without





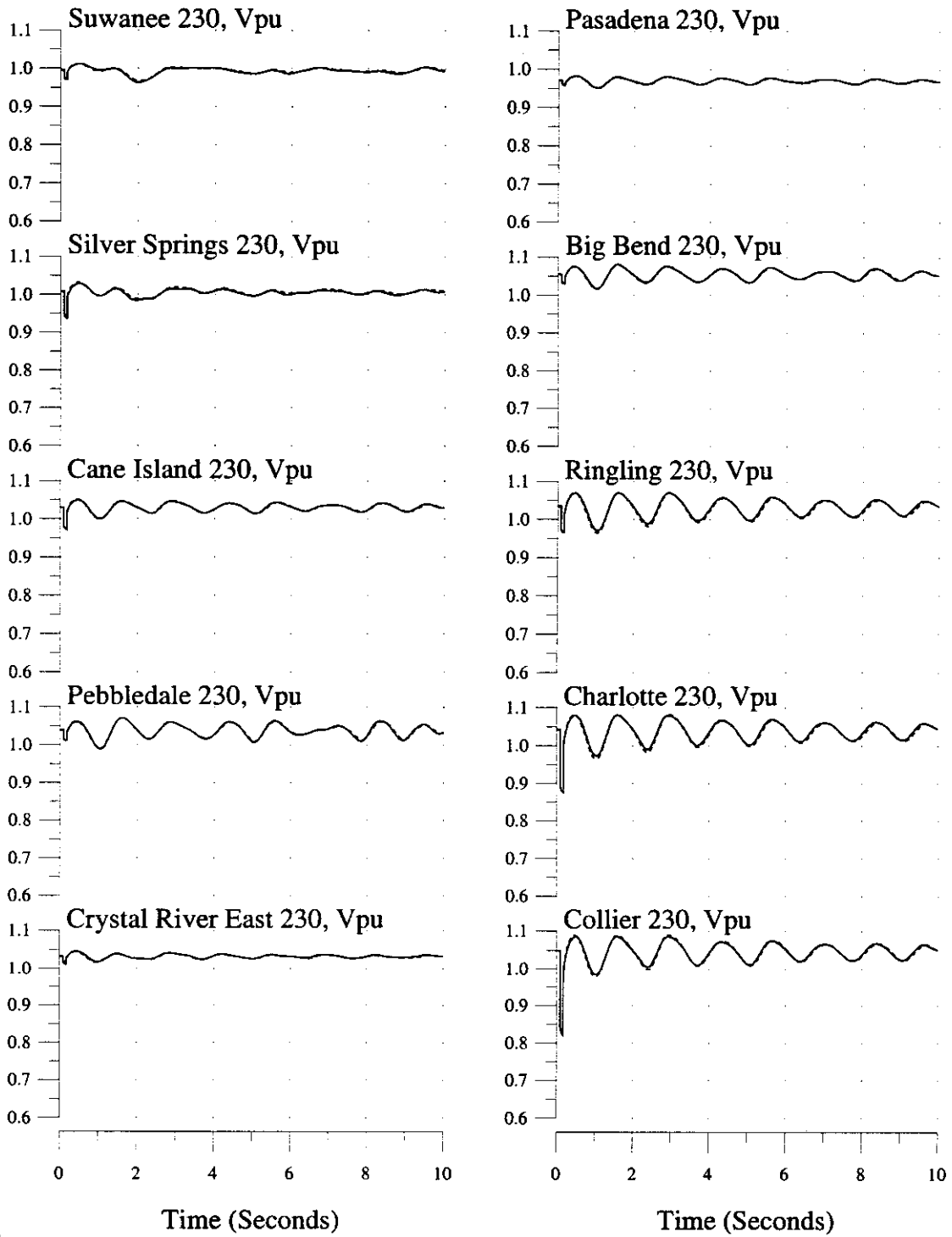
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



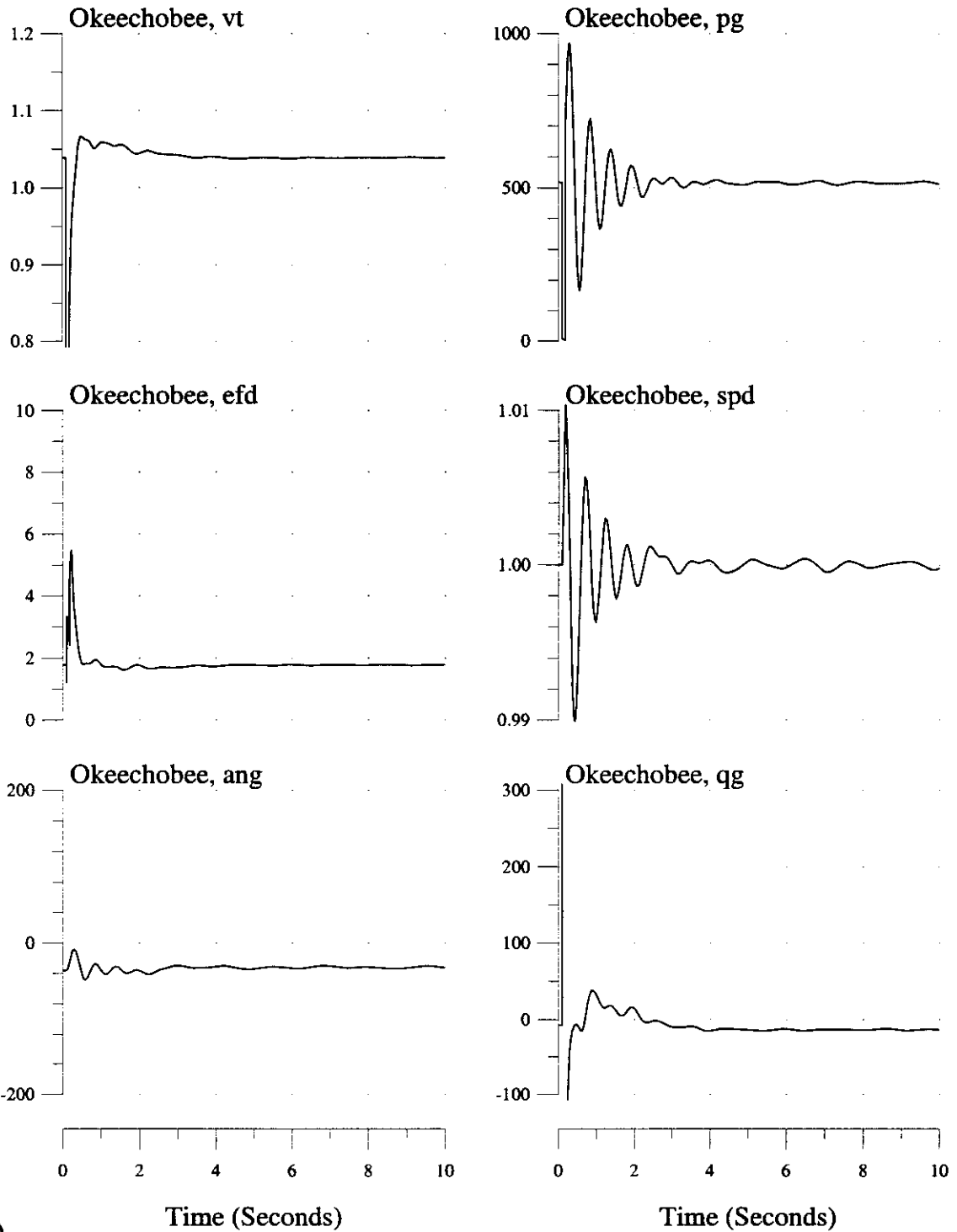
### 3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line 2003 Summer System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



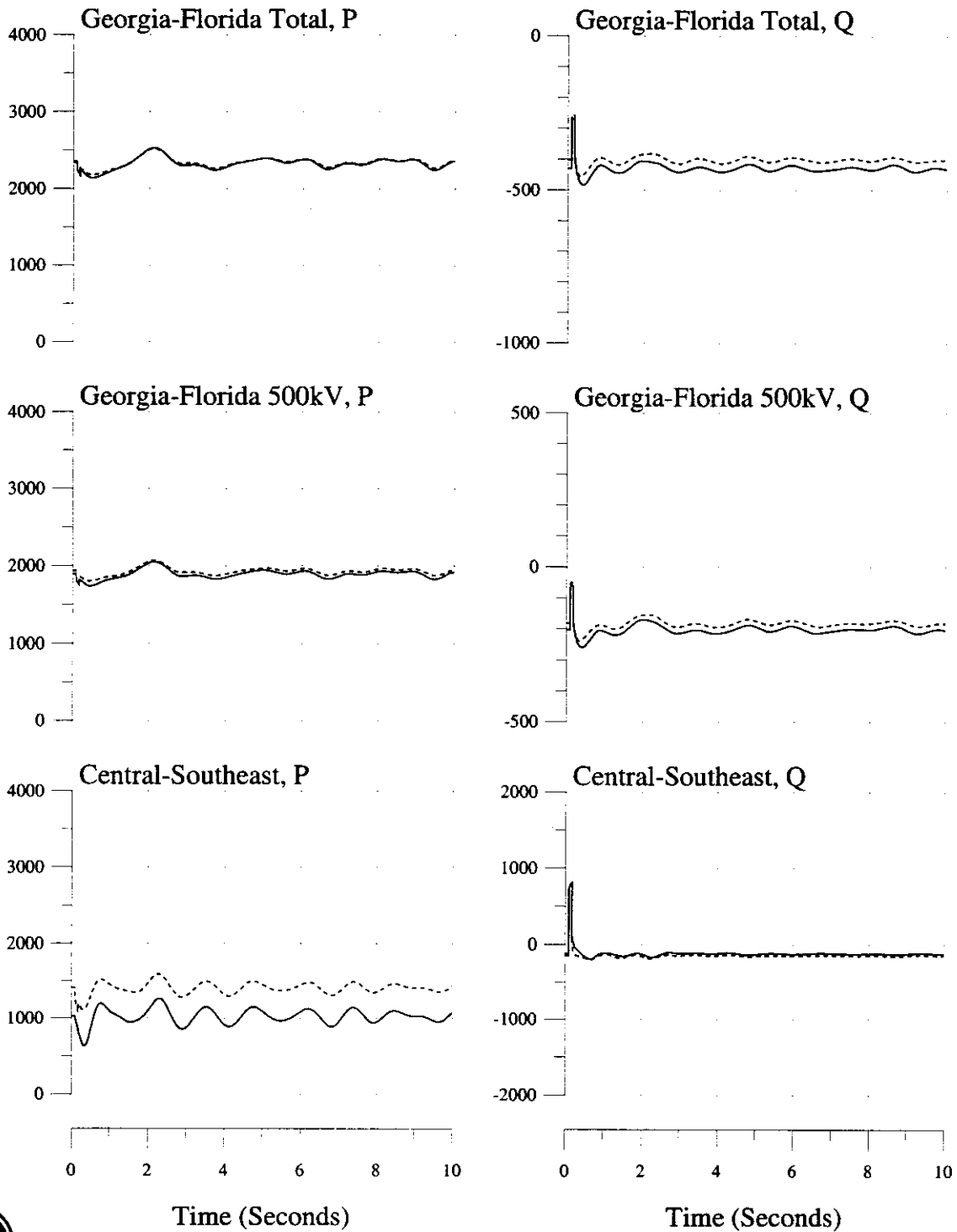
# 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line 2003 Summer System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



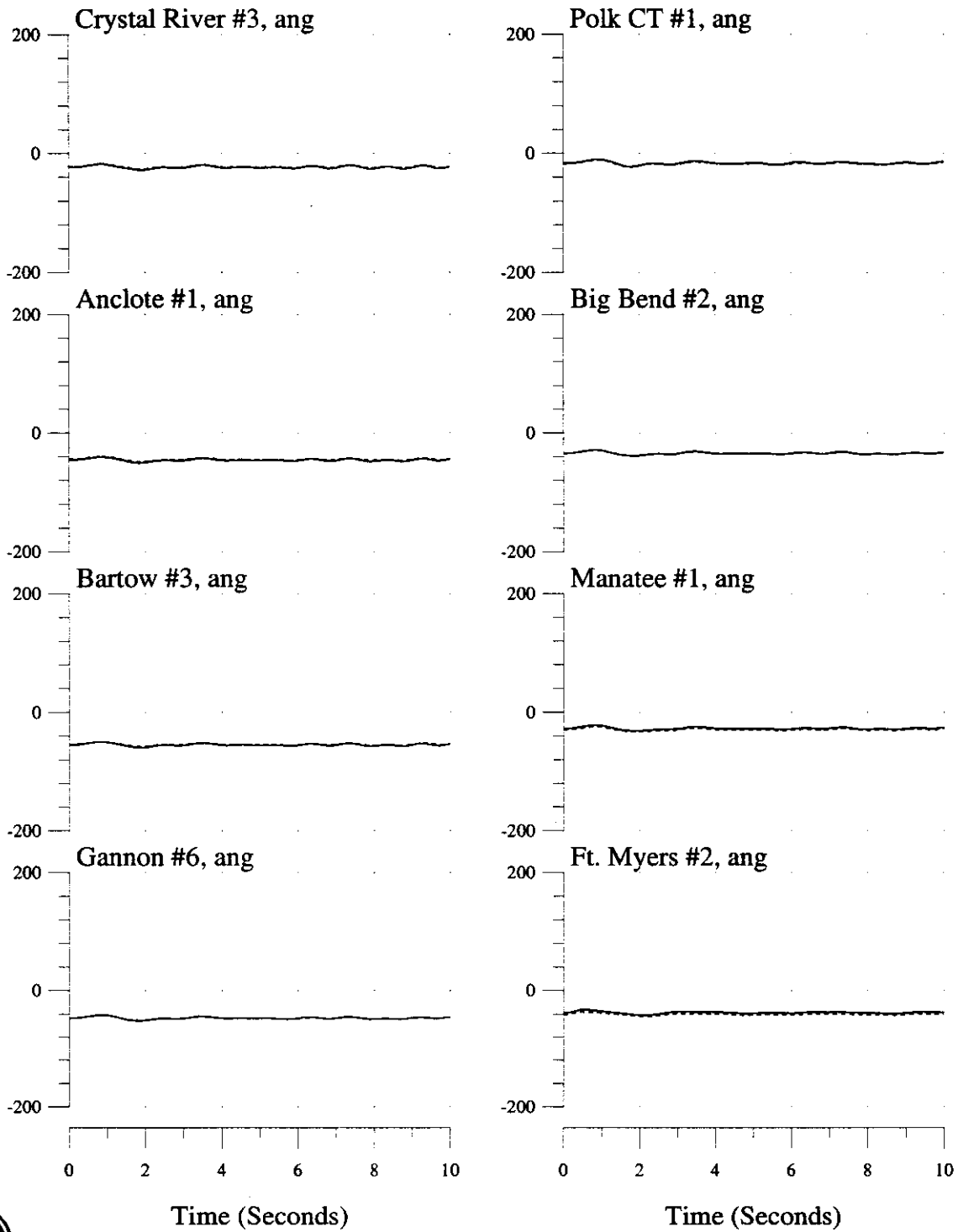
# 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line 2003 Summer System

Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



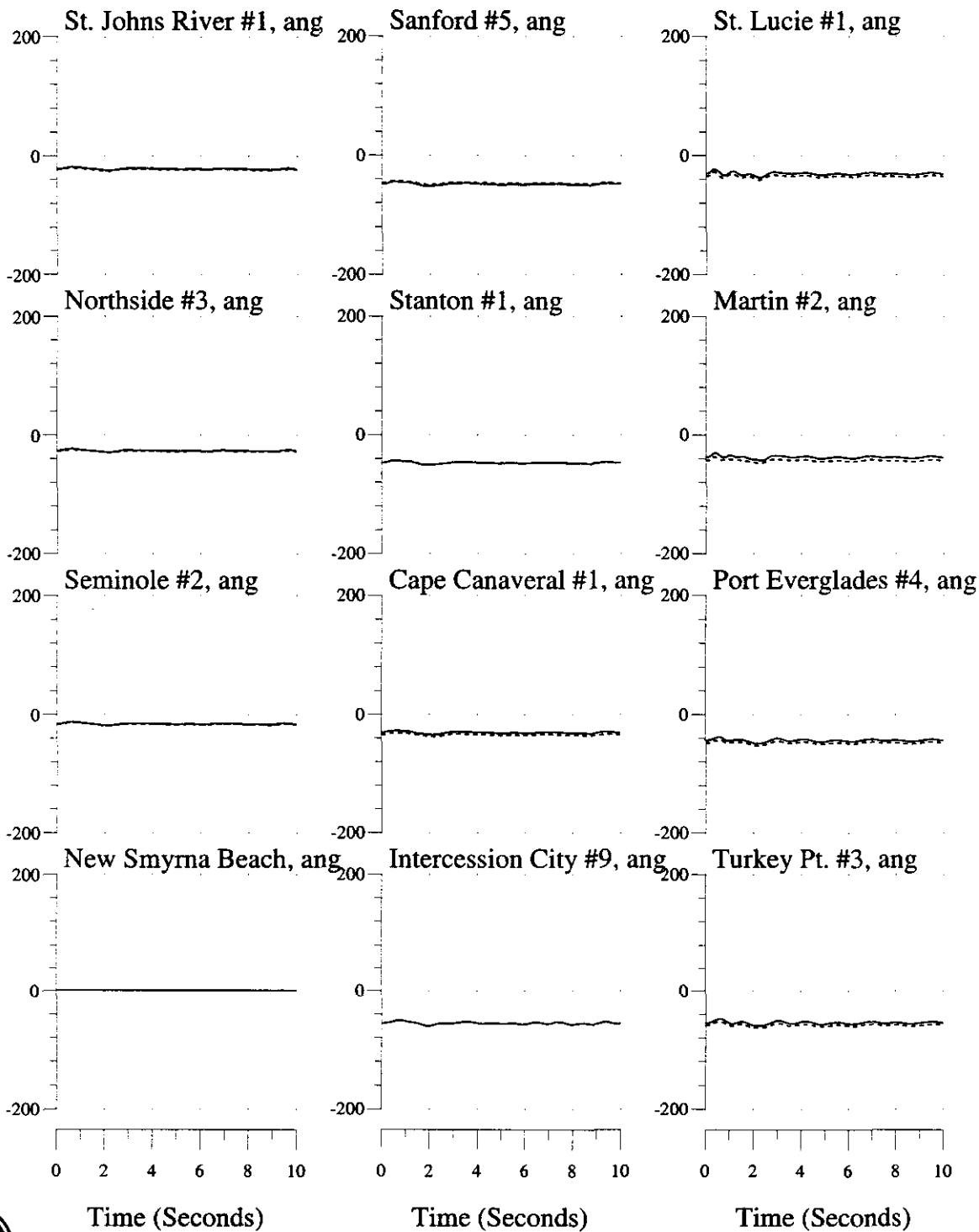
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



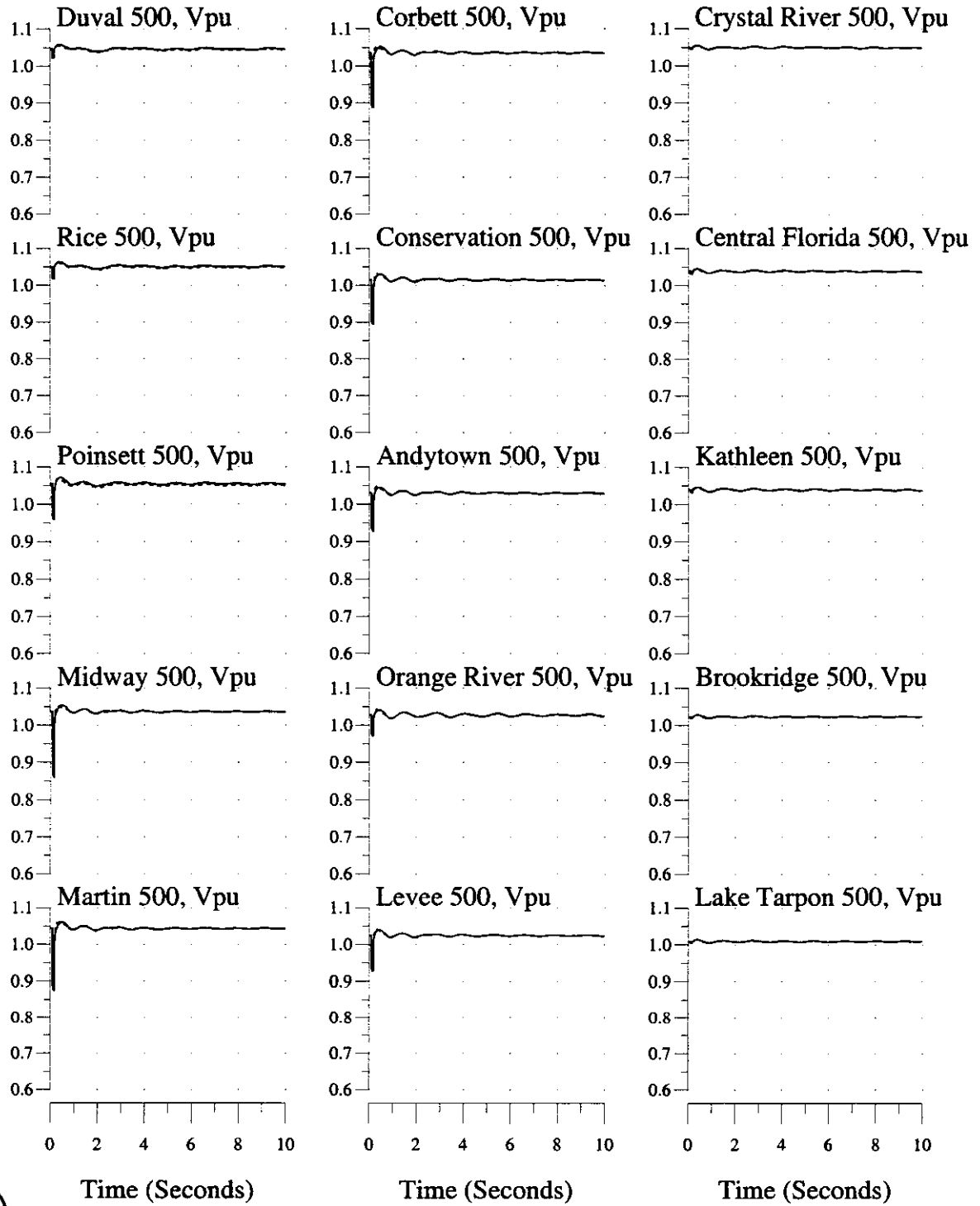
### 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line 2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



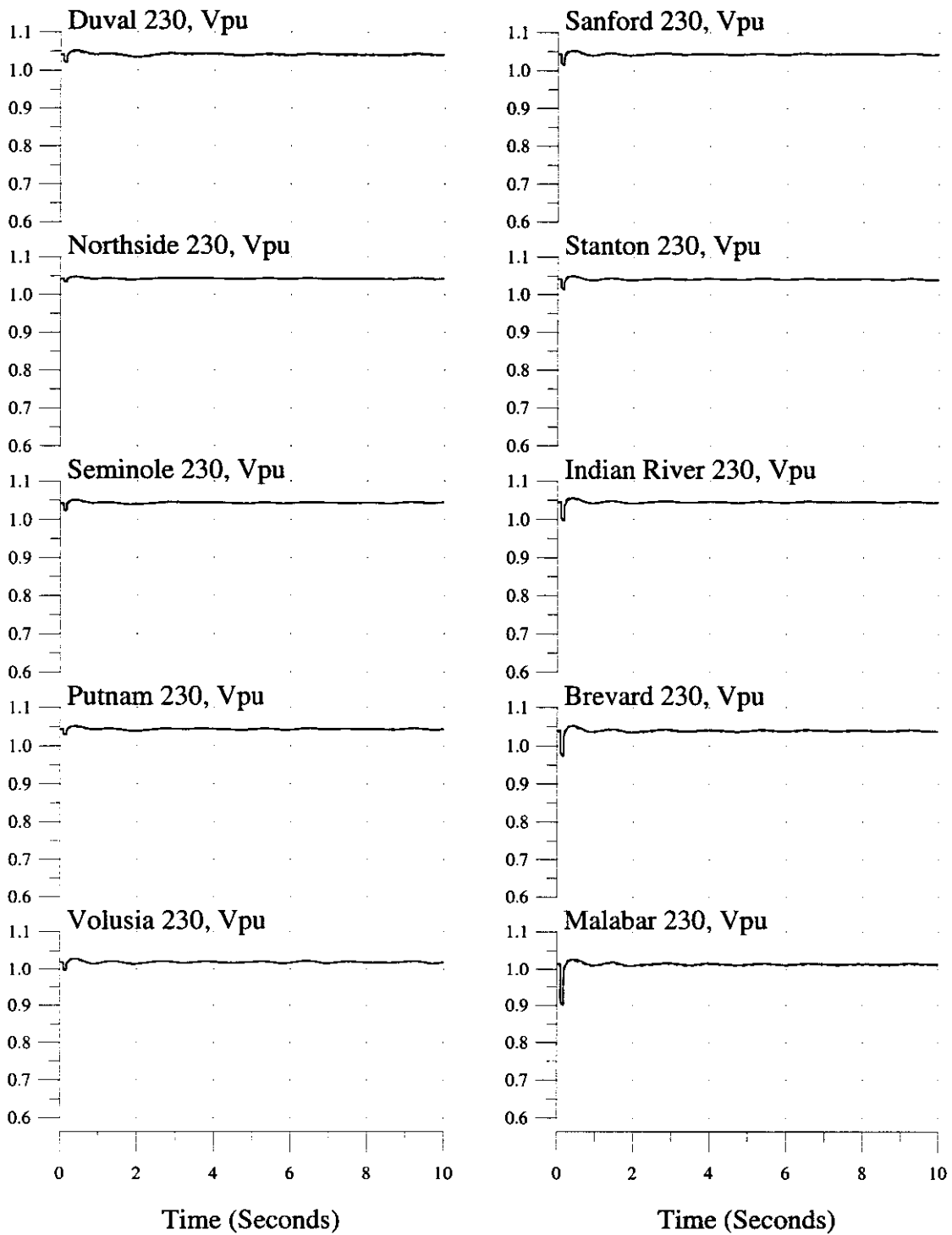
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Summer System

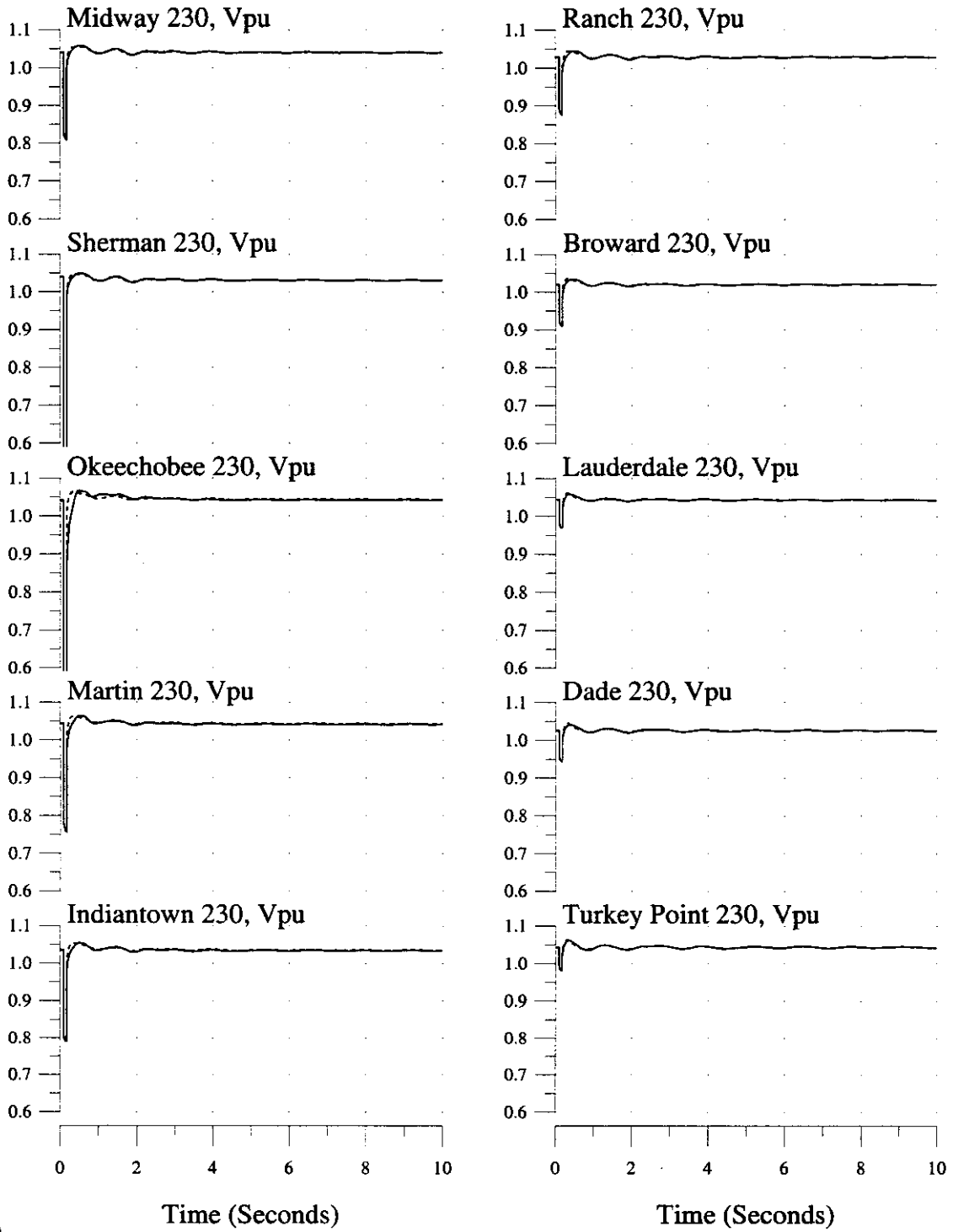
Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without





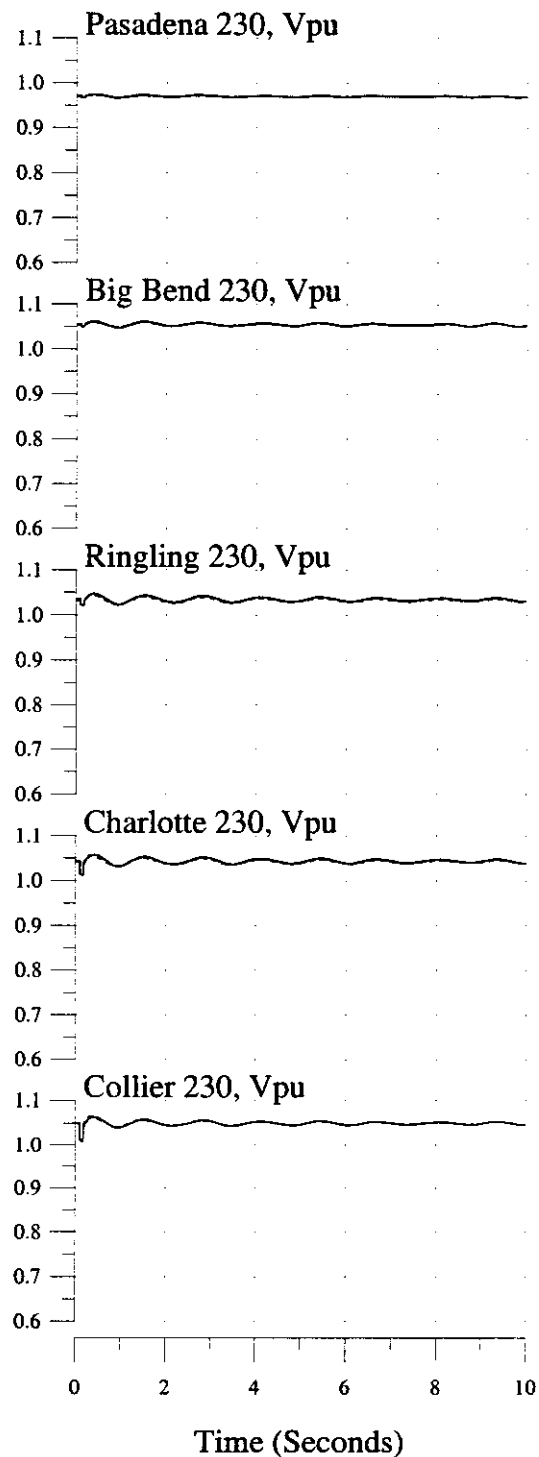
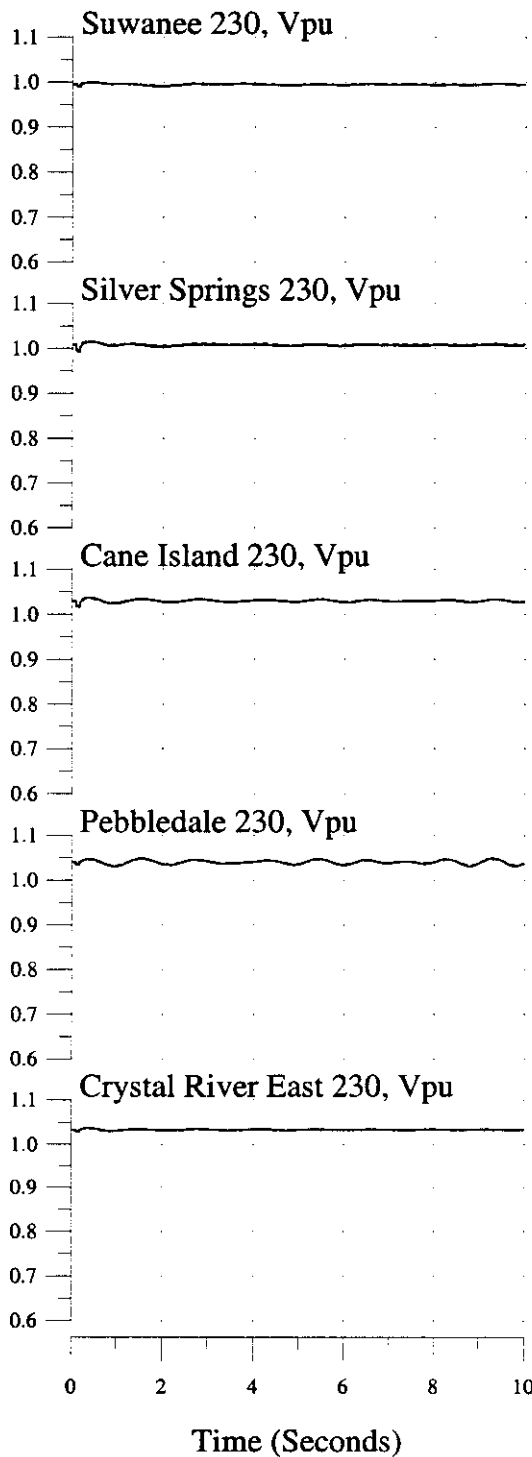
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Summer System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



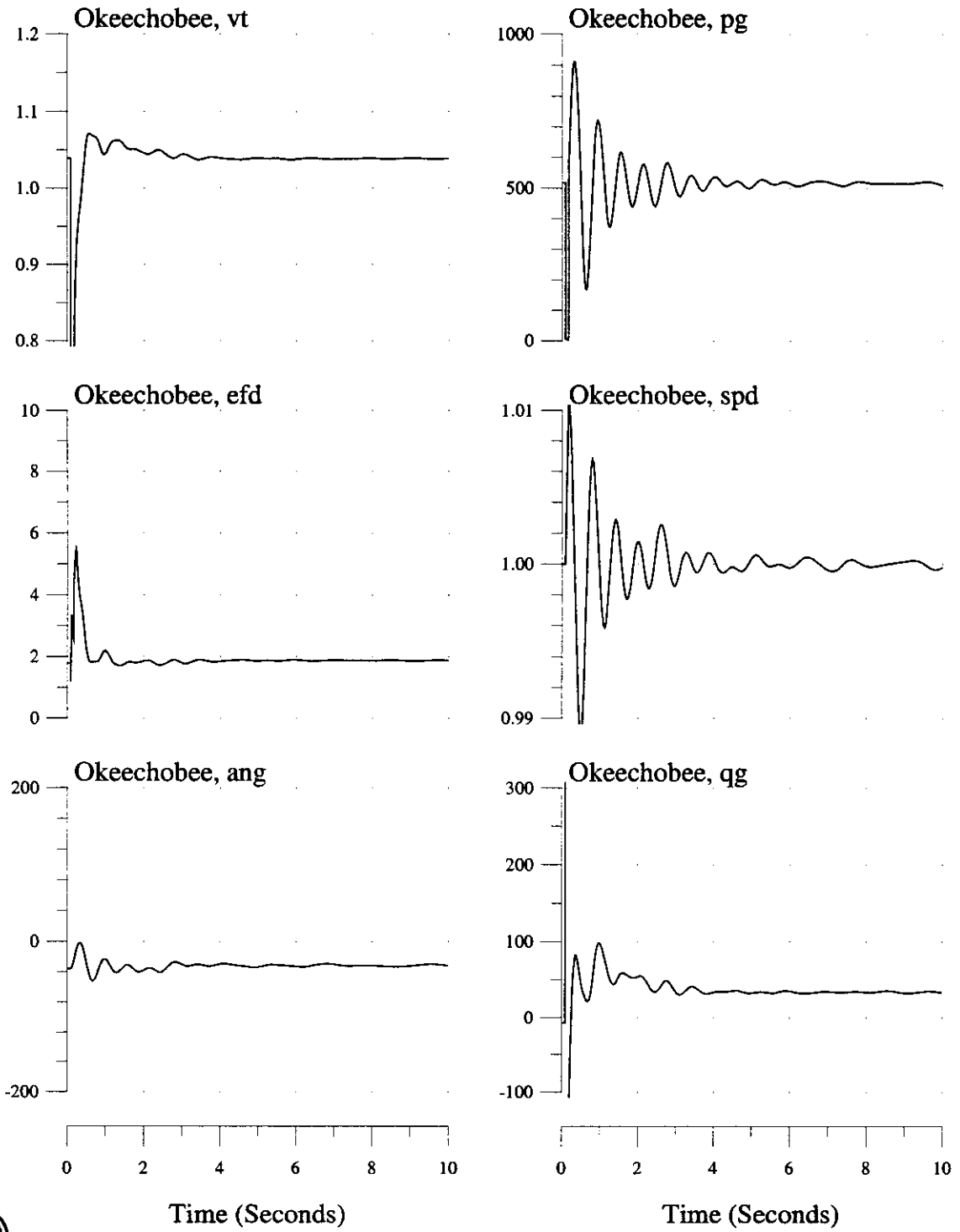
# 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line 2003 Summer System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



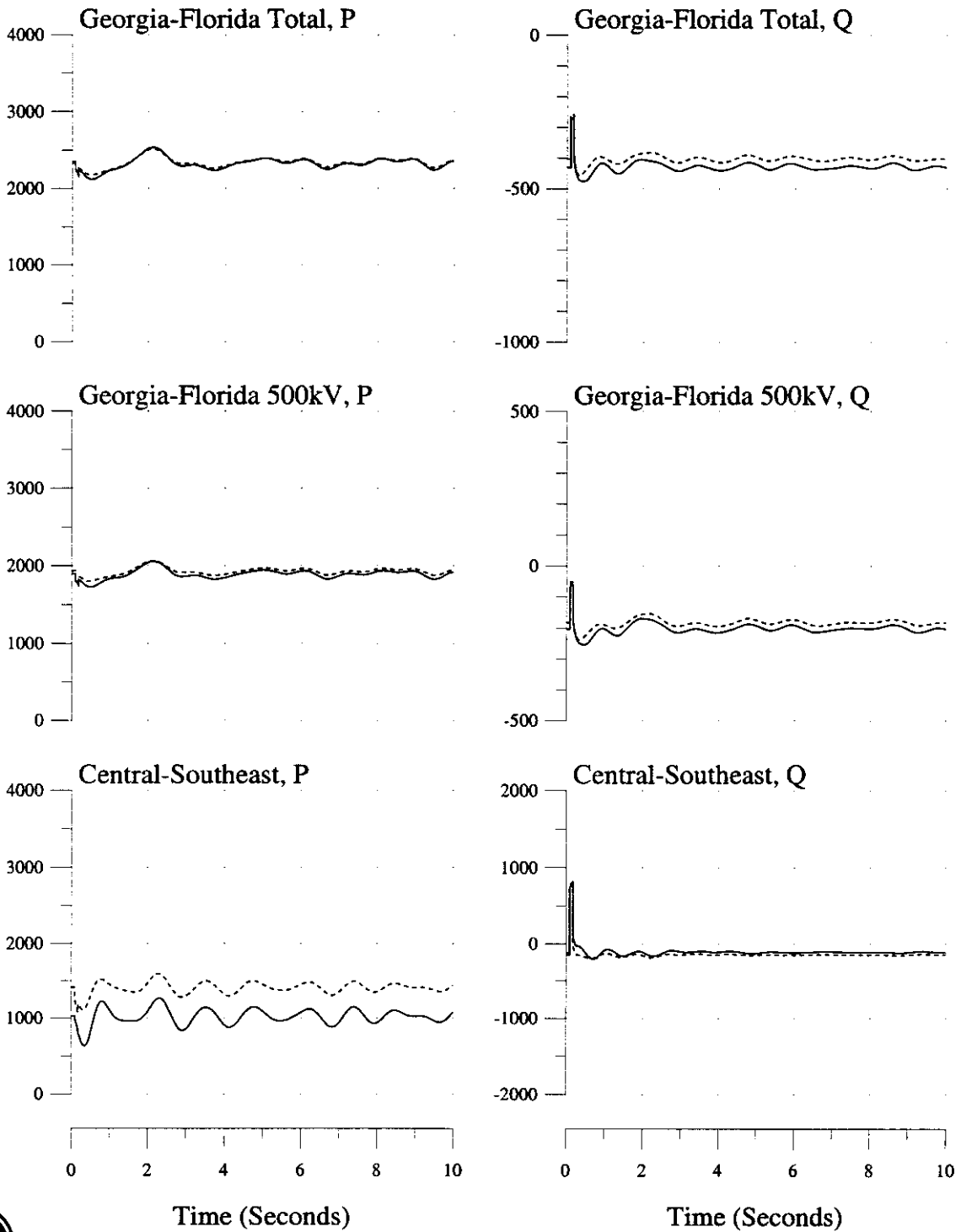
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Summer System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



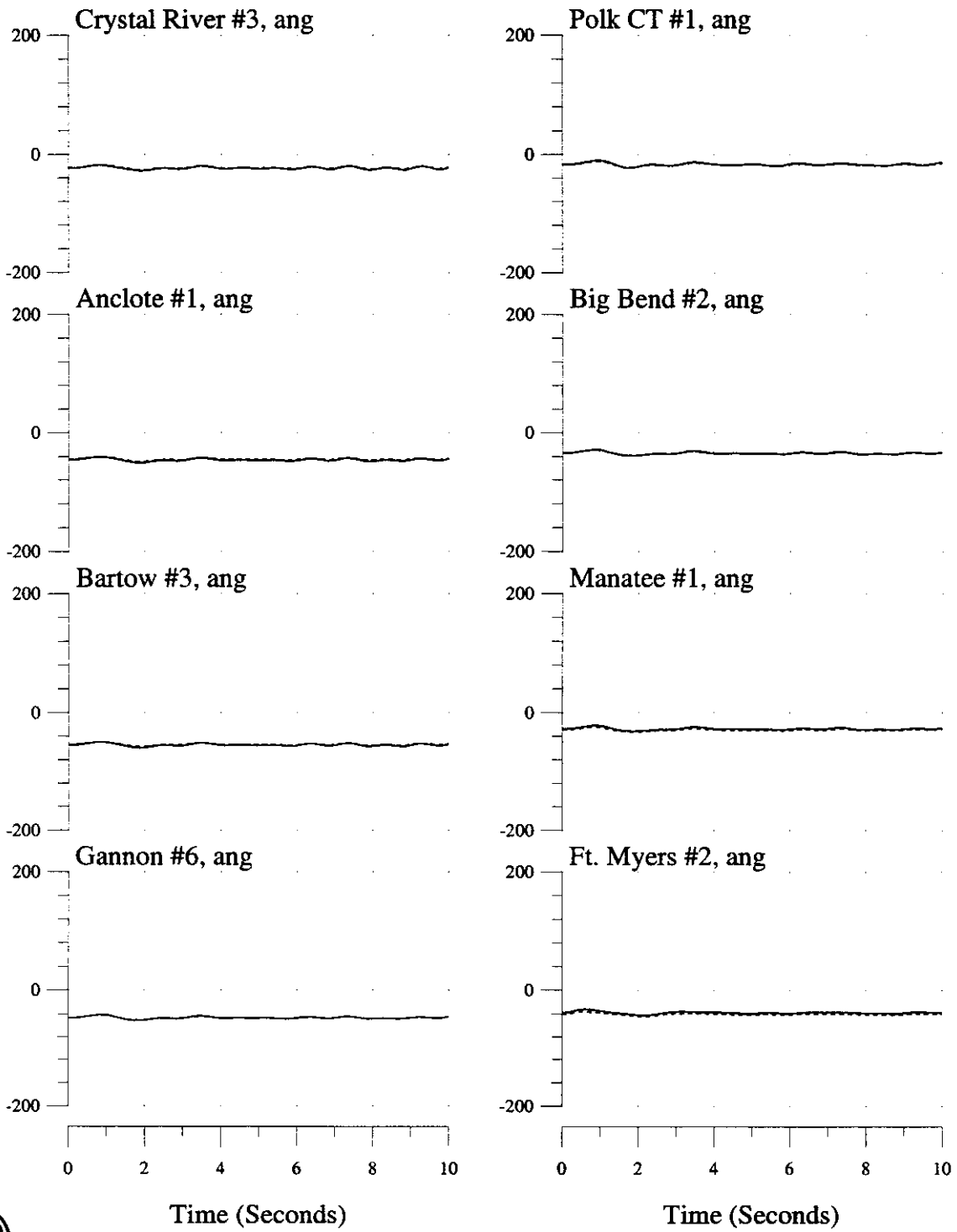
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Summer System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



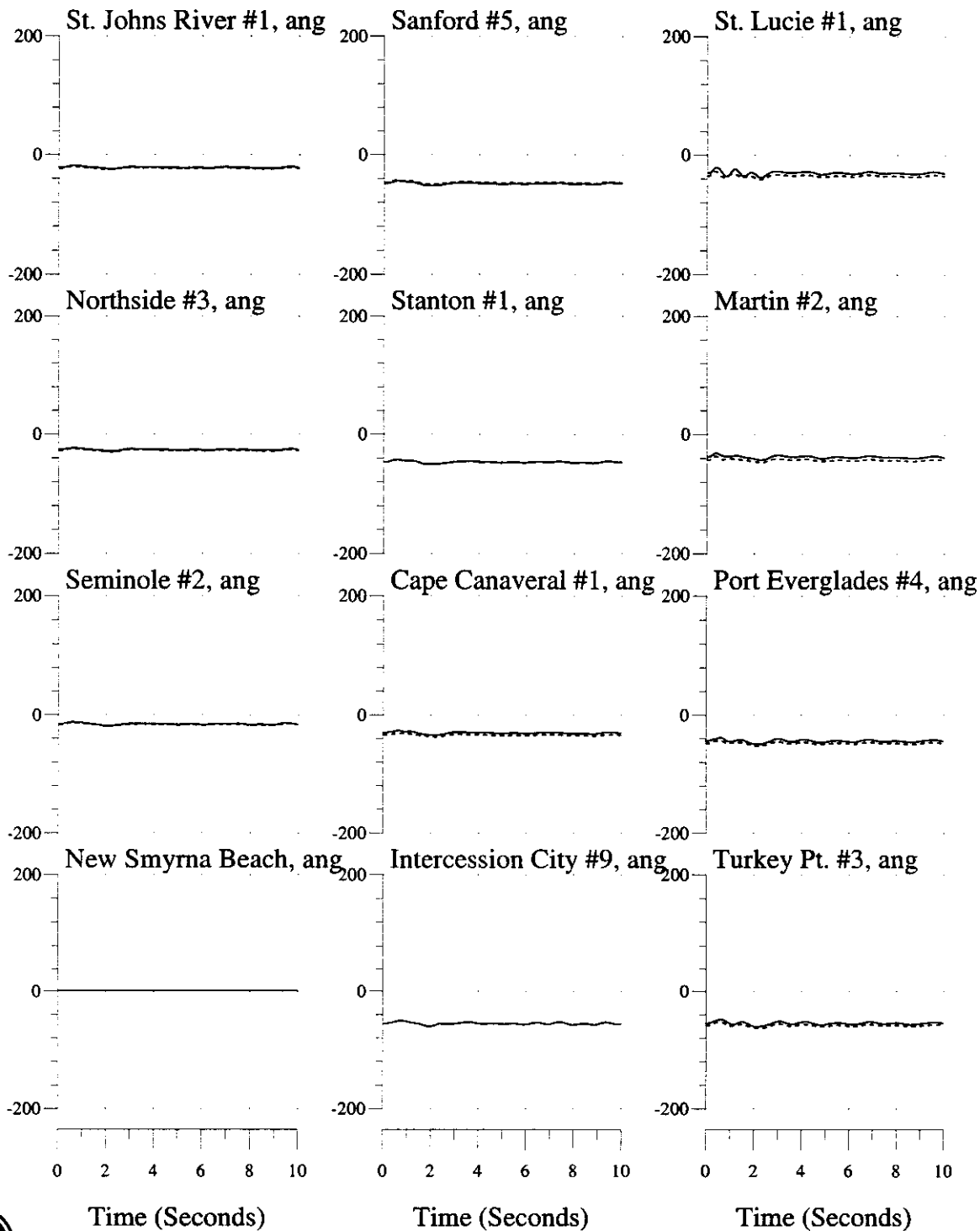
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Summer System

Machine Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



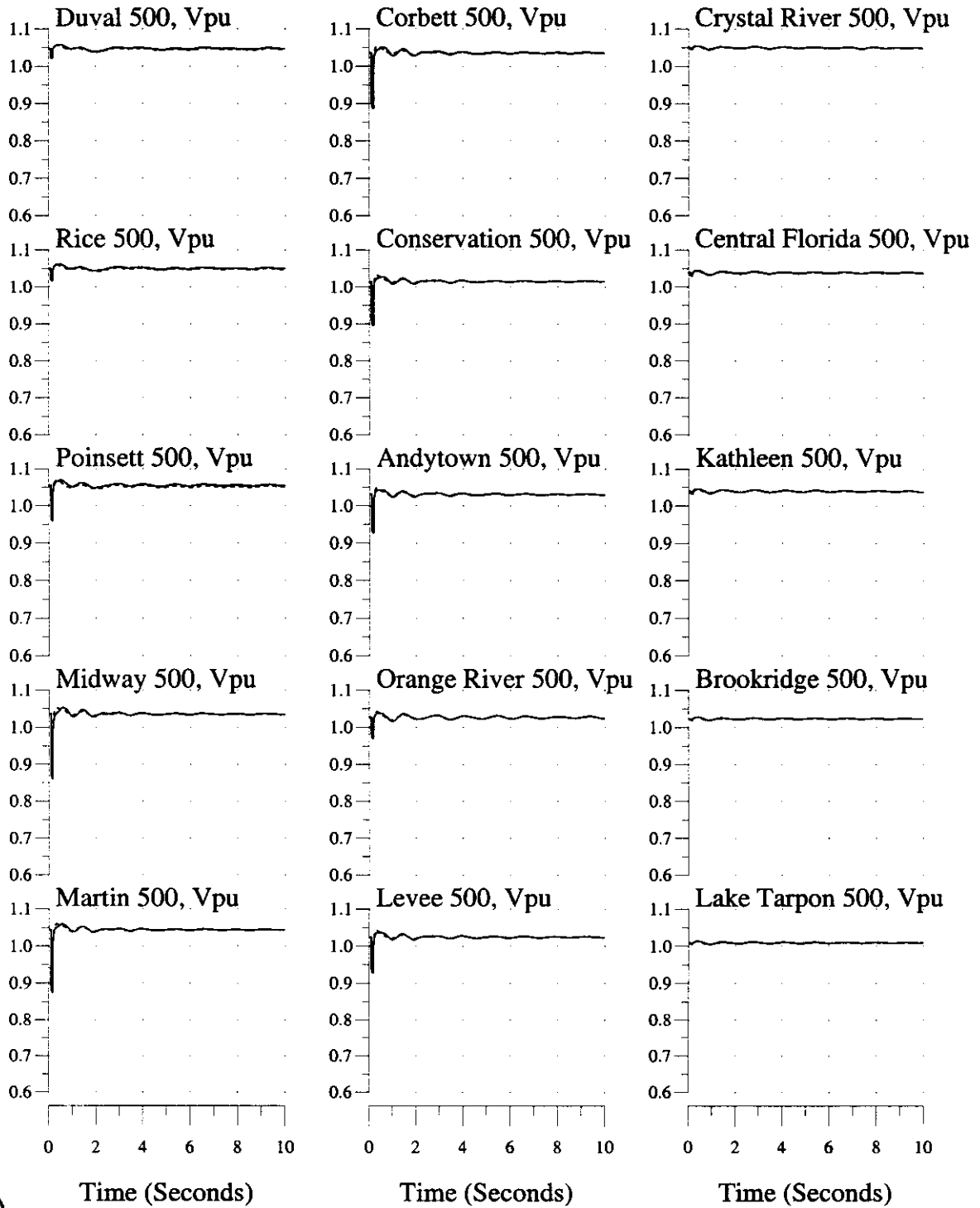
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



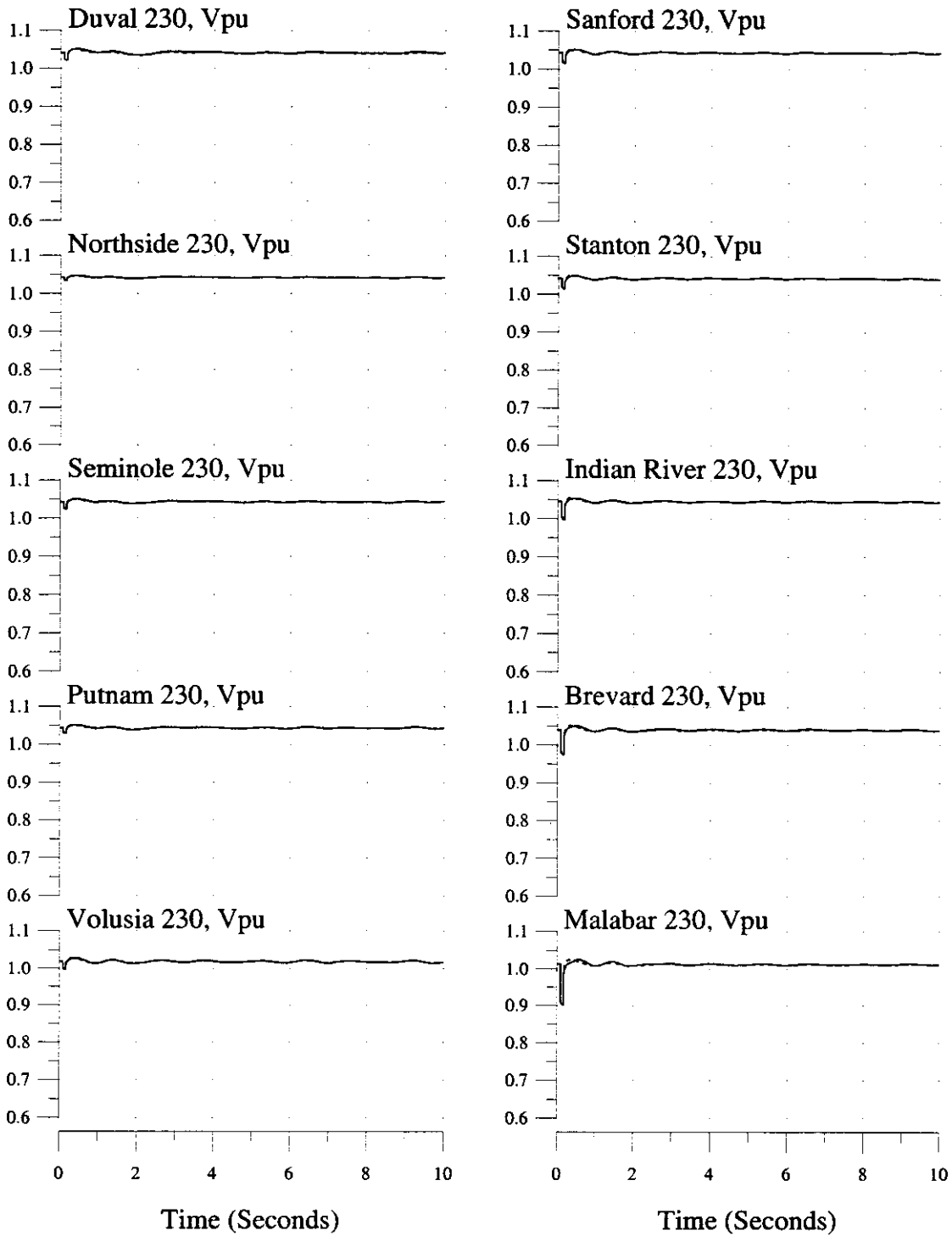
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Summer System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Summer System

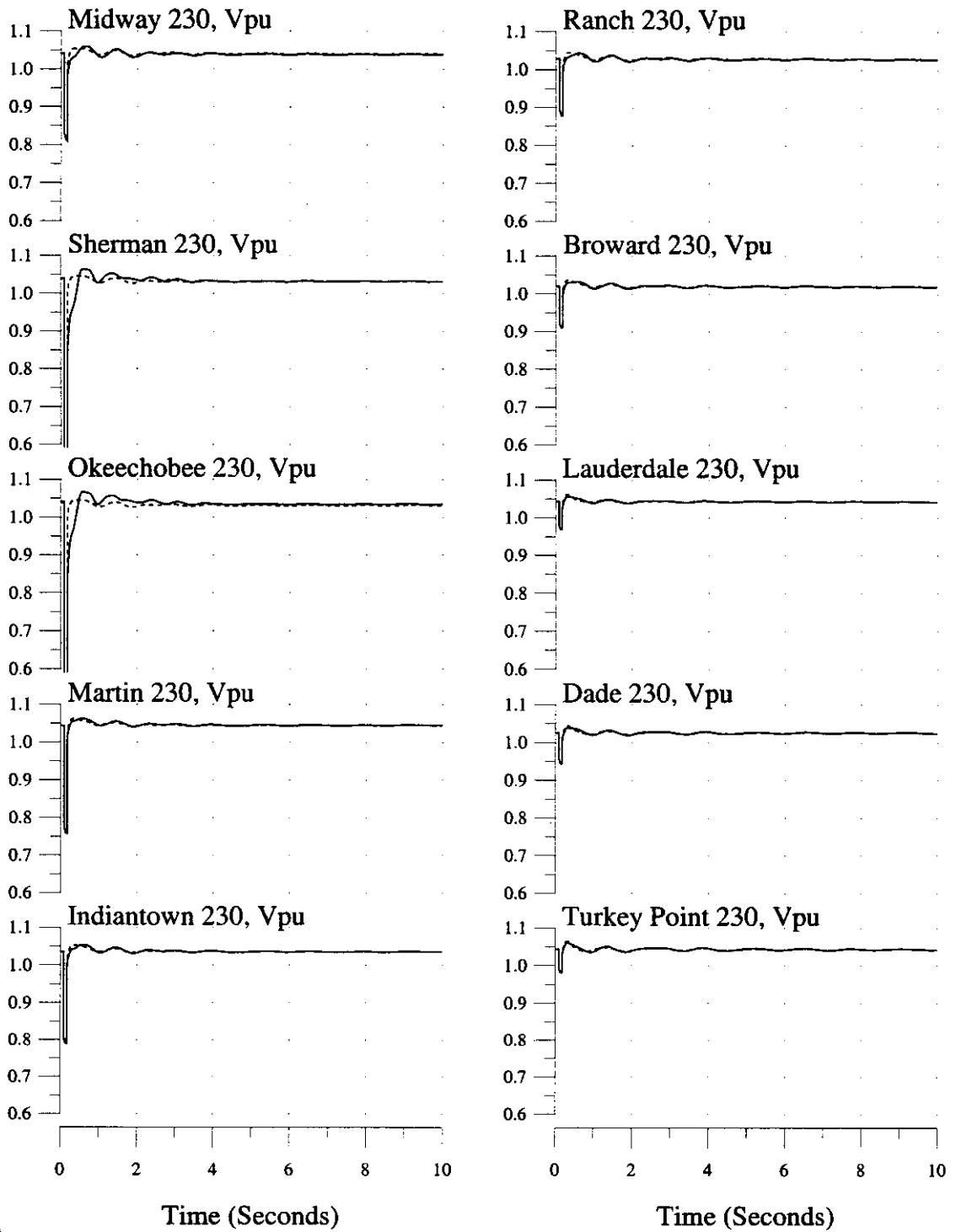
Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without





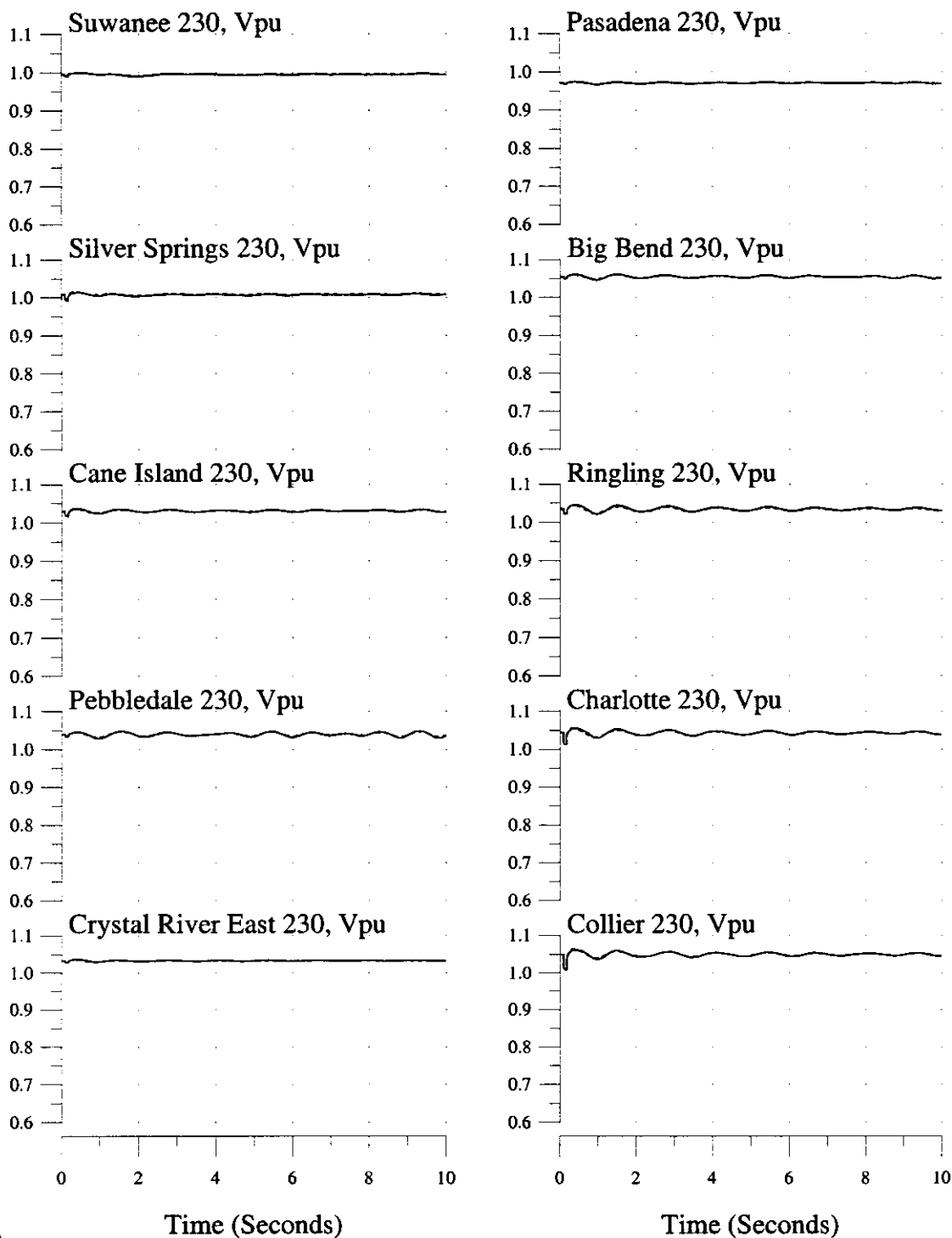
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



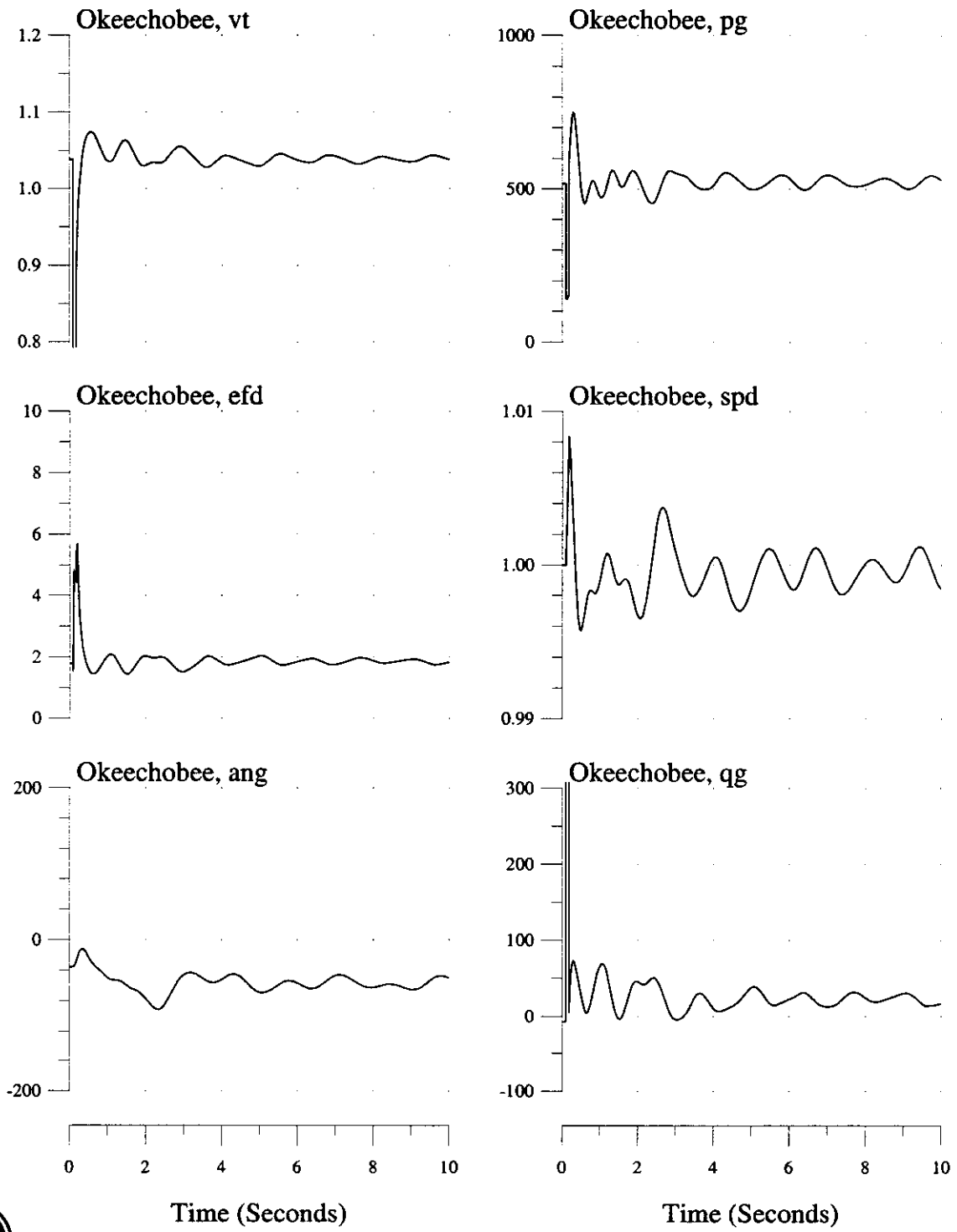
### 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line 2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



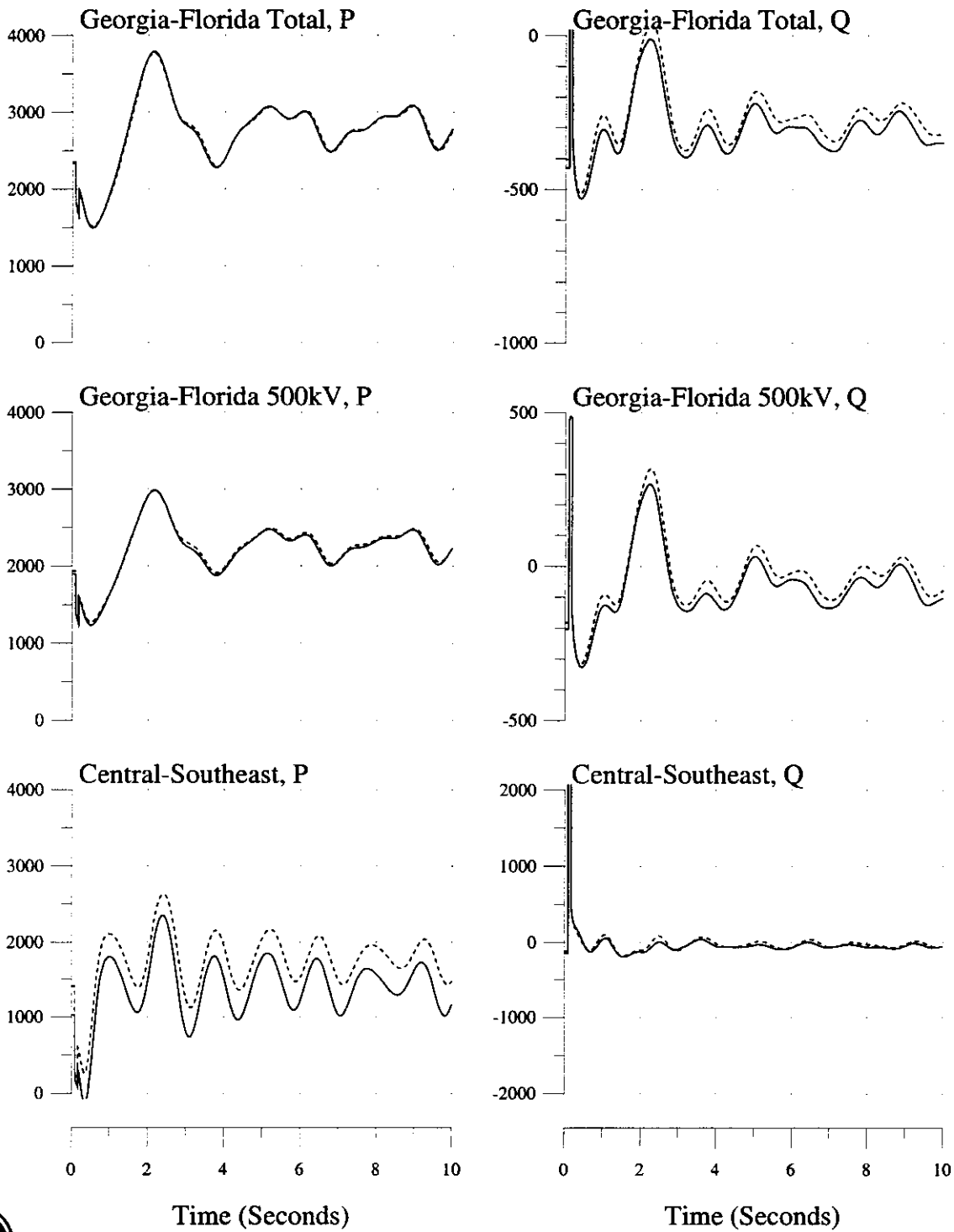
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Summer System

Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



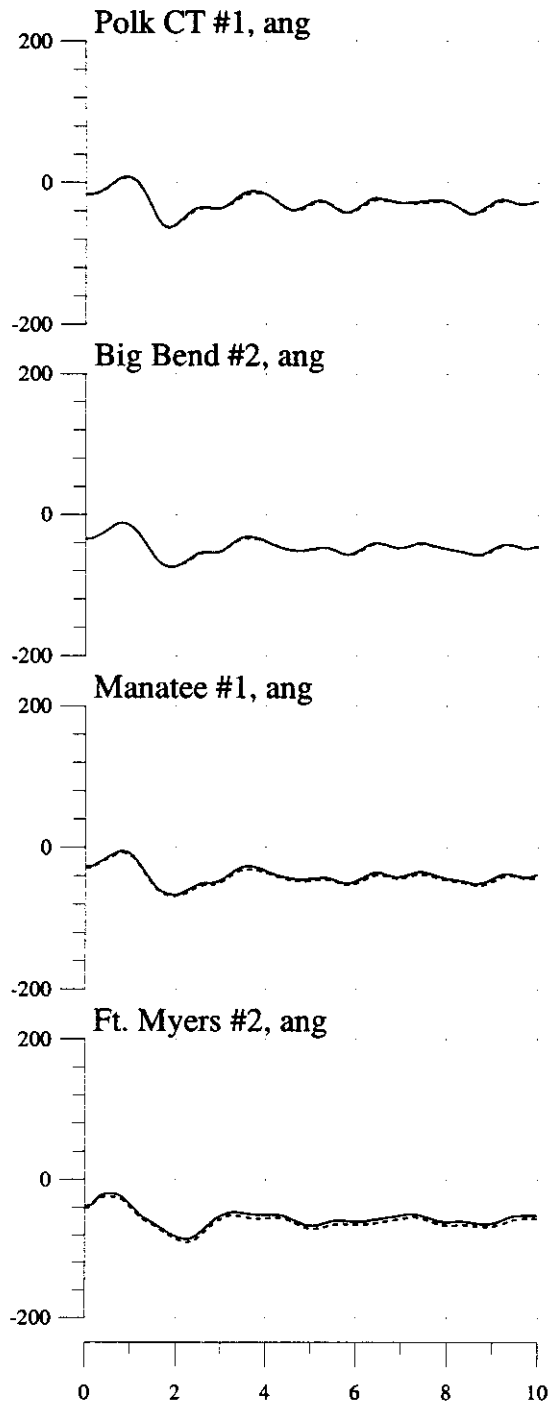
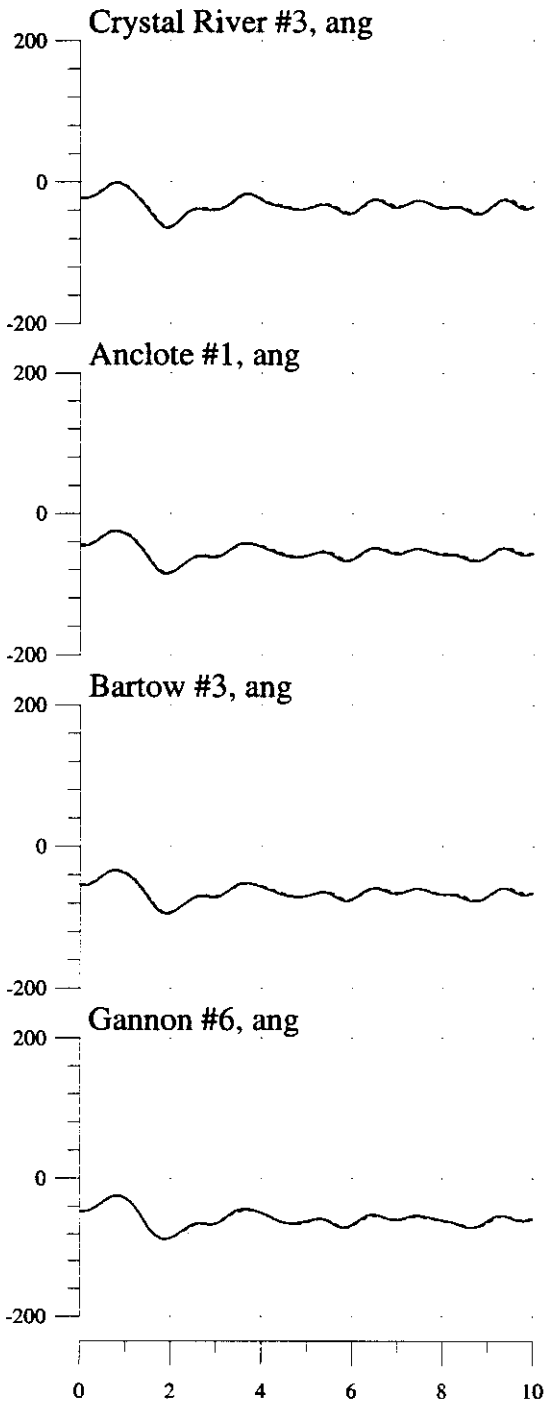
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Summer System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



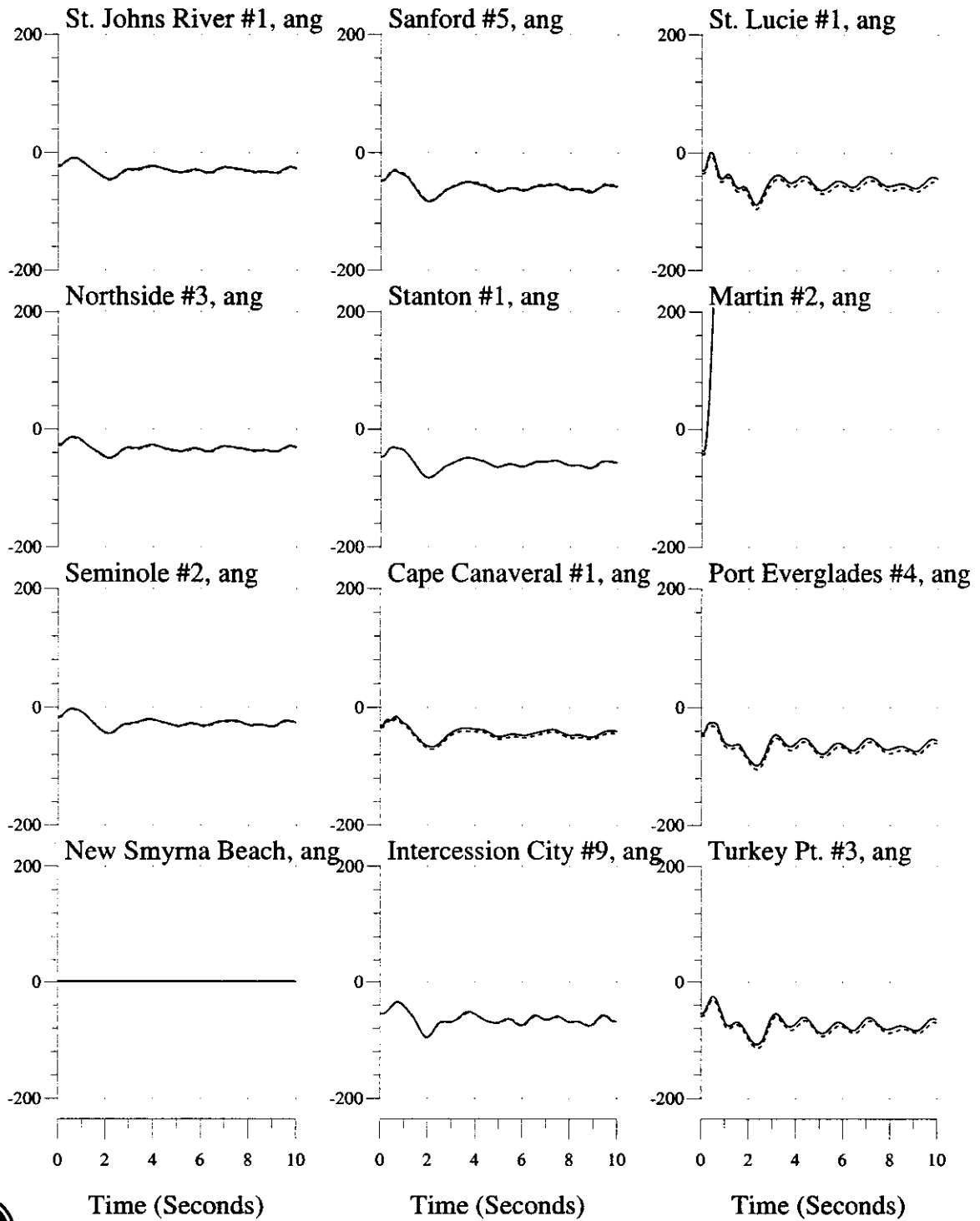
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



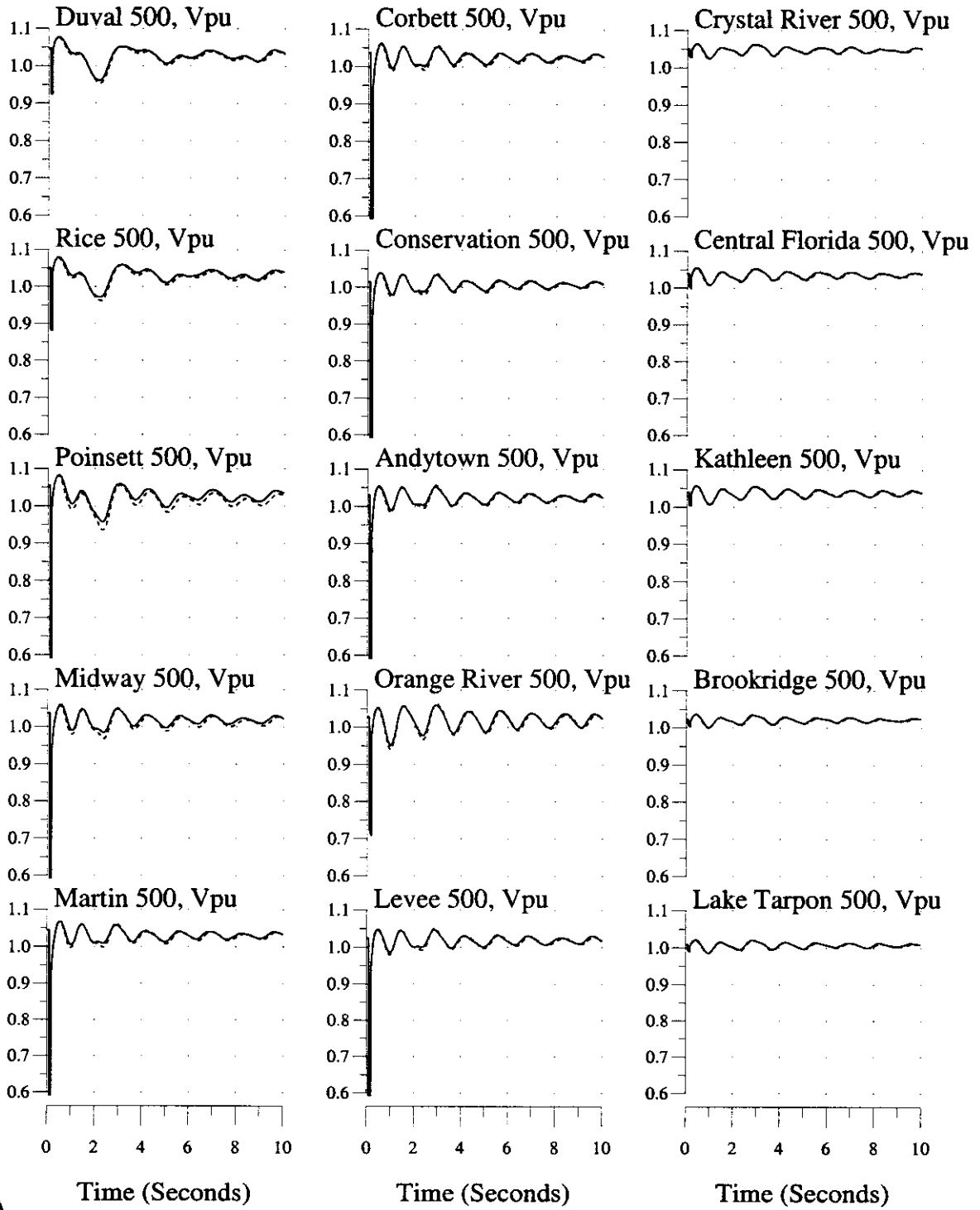
# 3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line 2003 Summer System

Machine Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



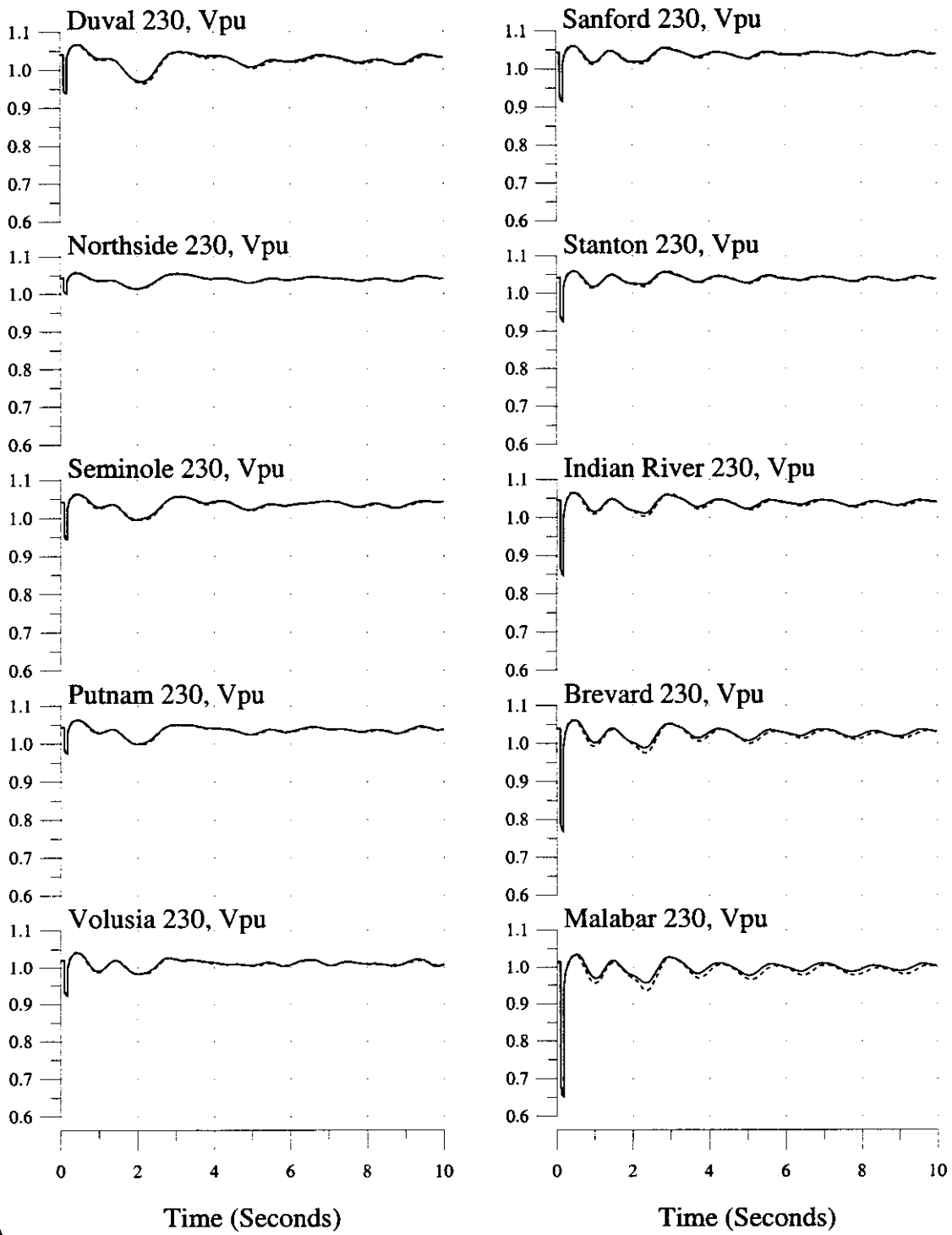
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



# 3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line 2003 Summer System

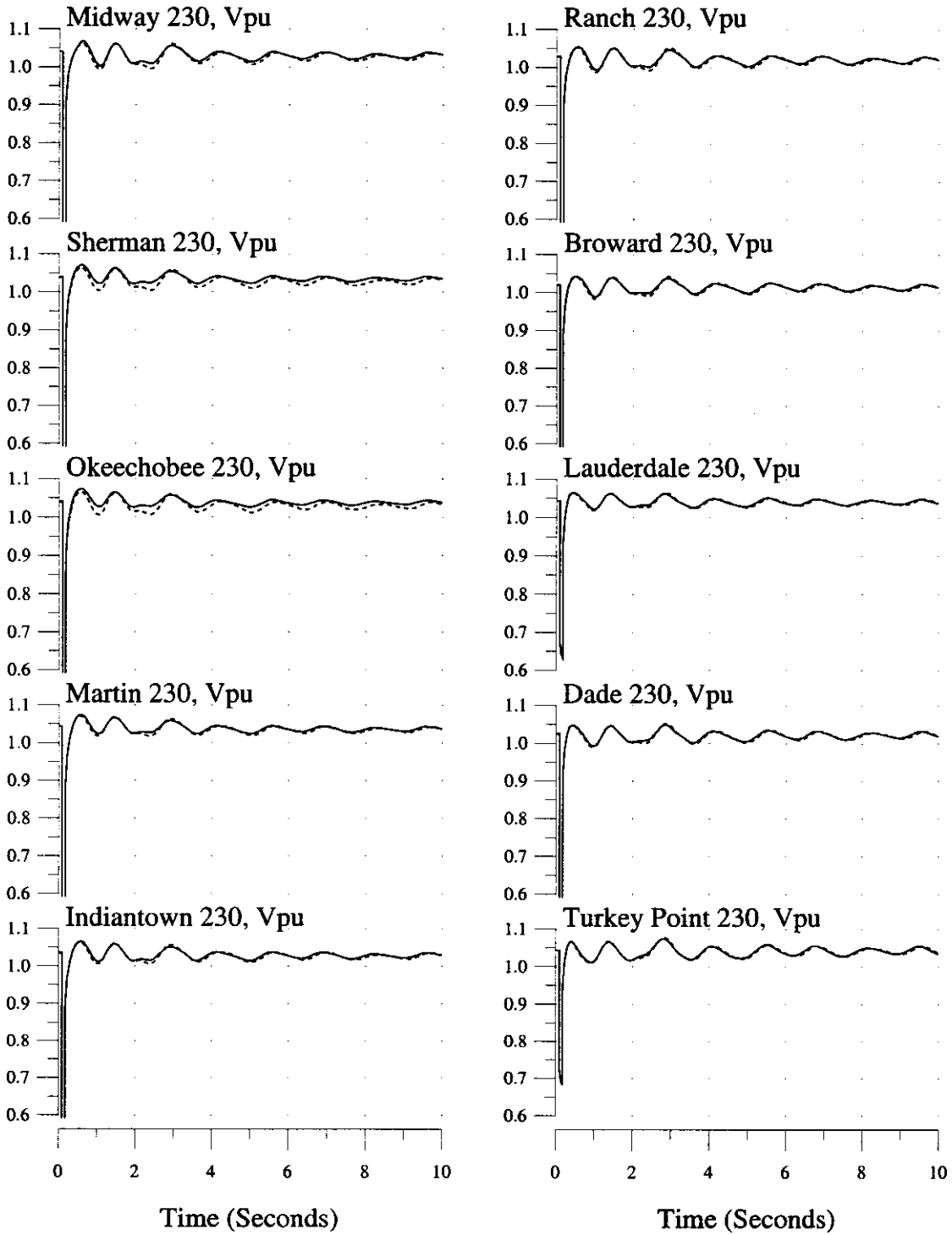
Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without





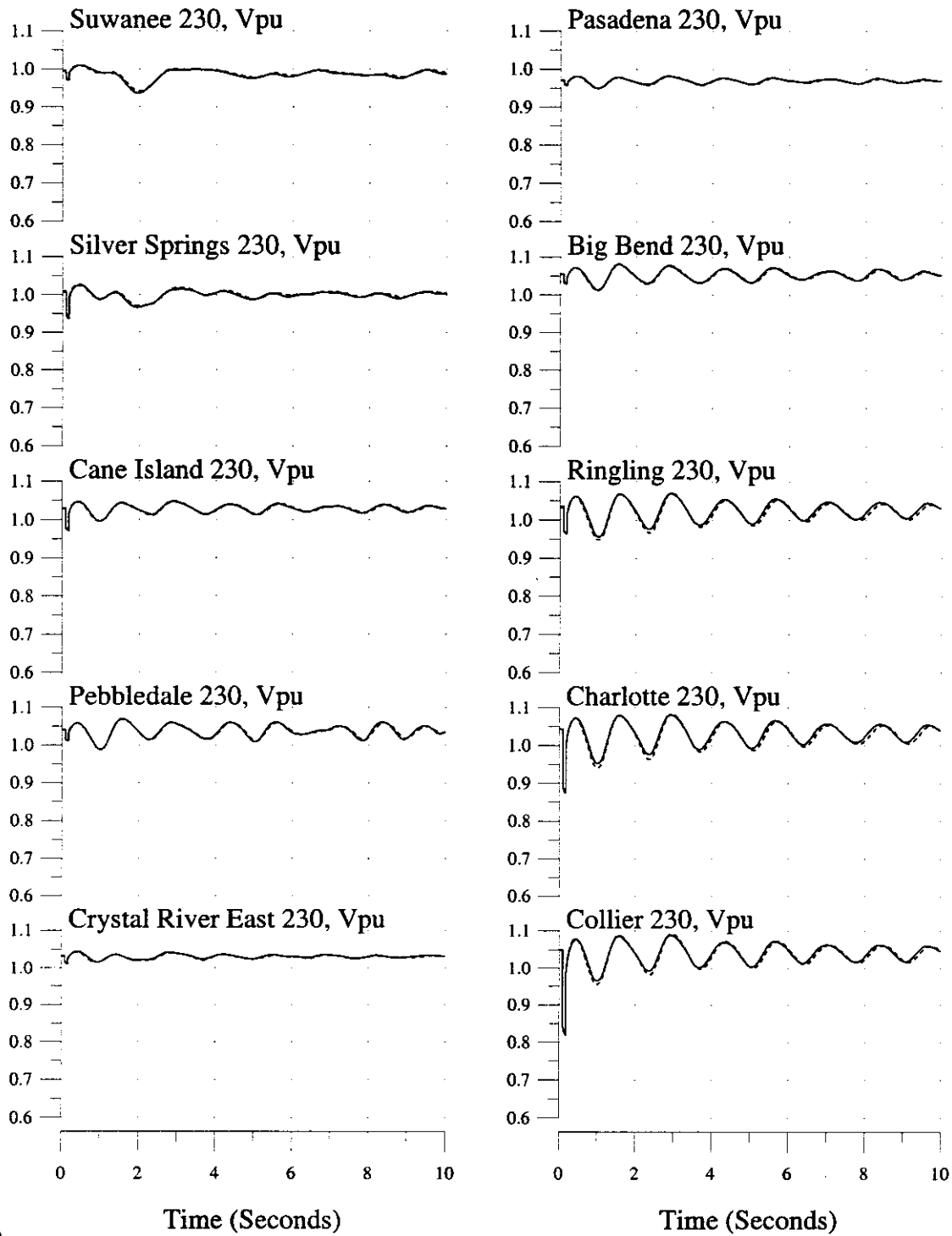
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



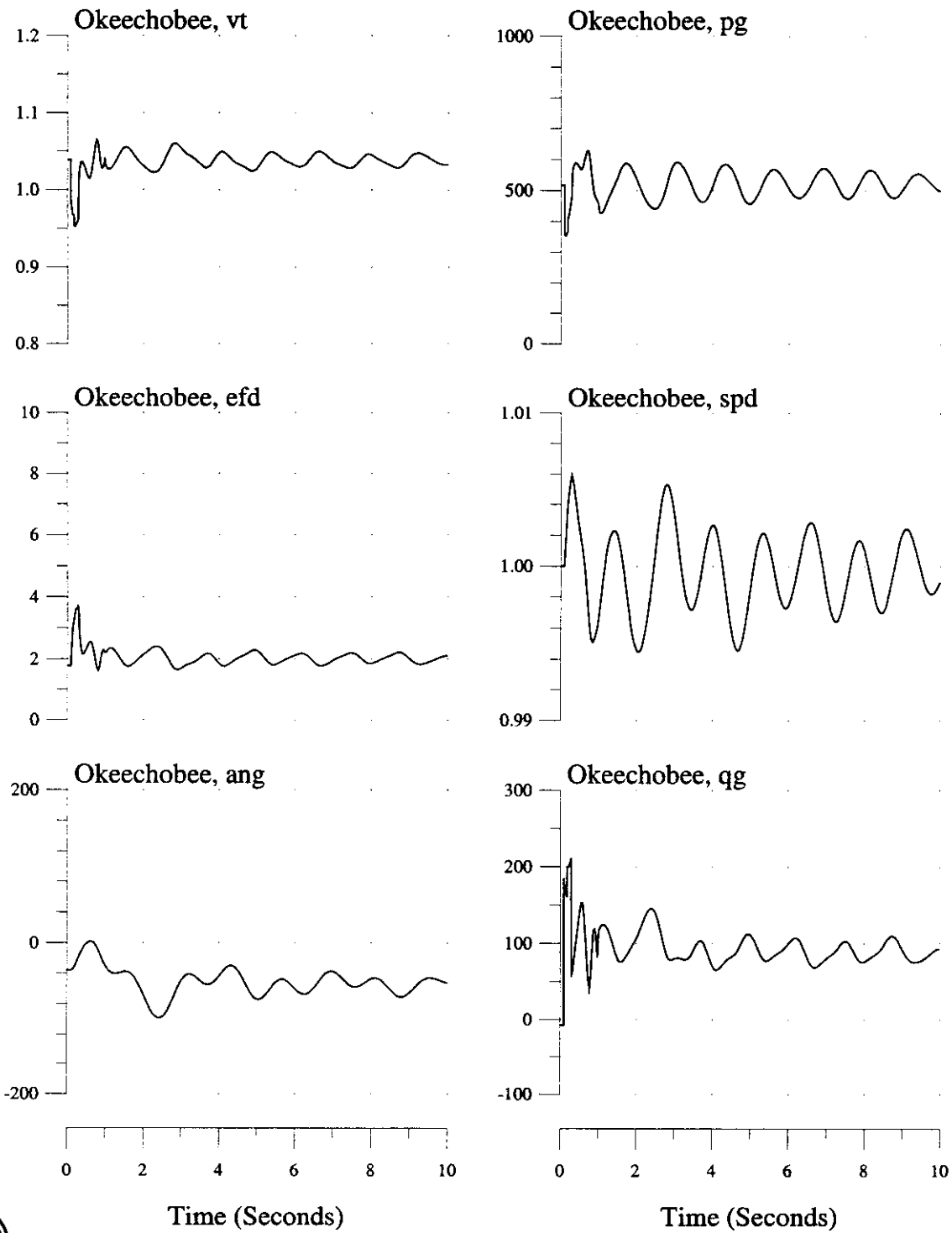
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



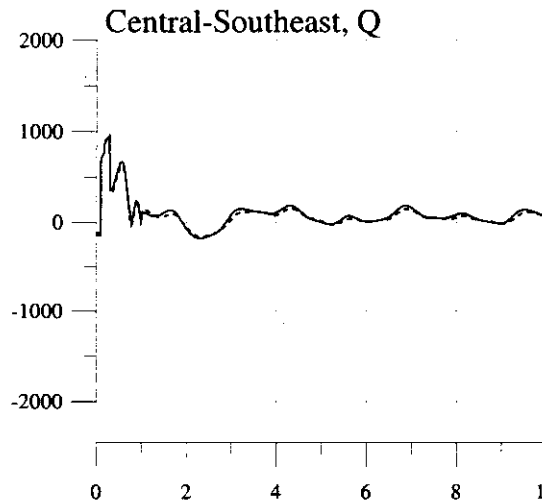
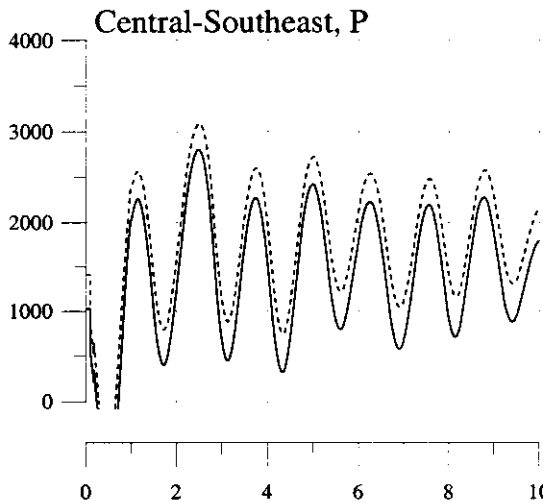
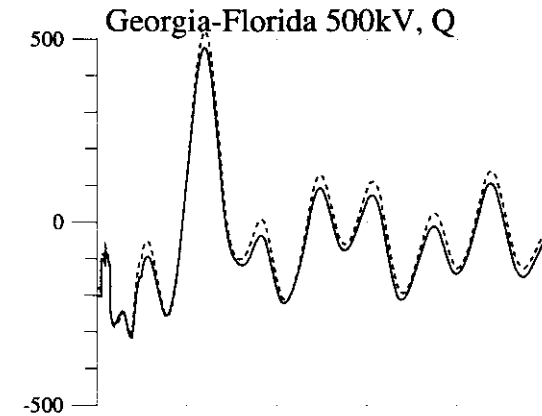
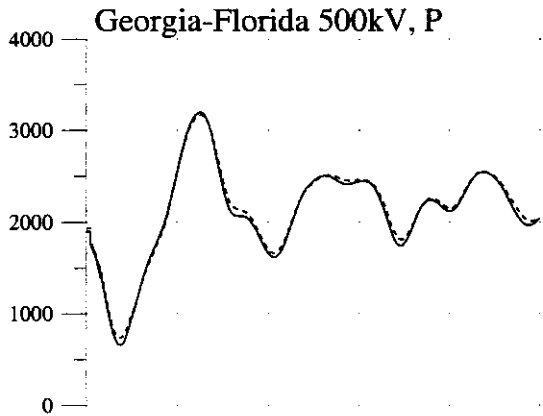
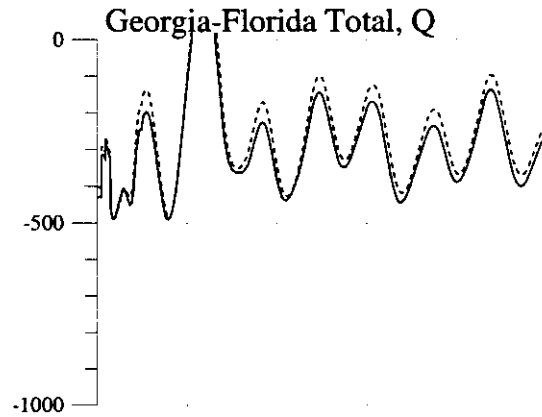
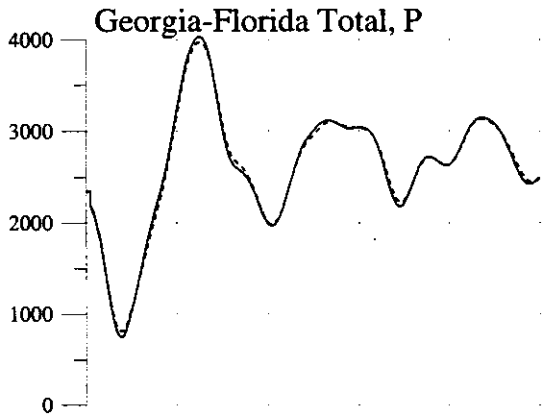
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Summer System

Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Summer System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



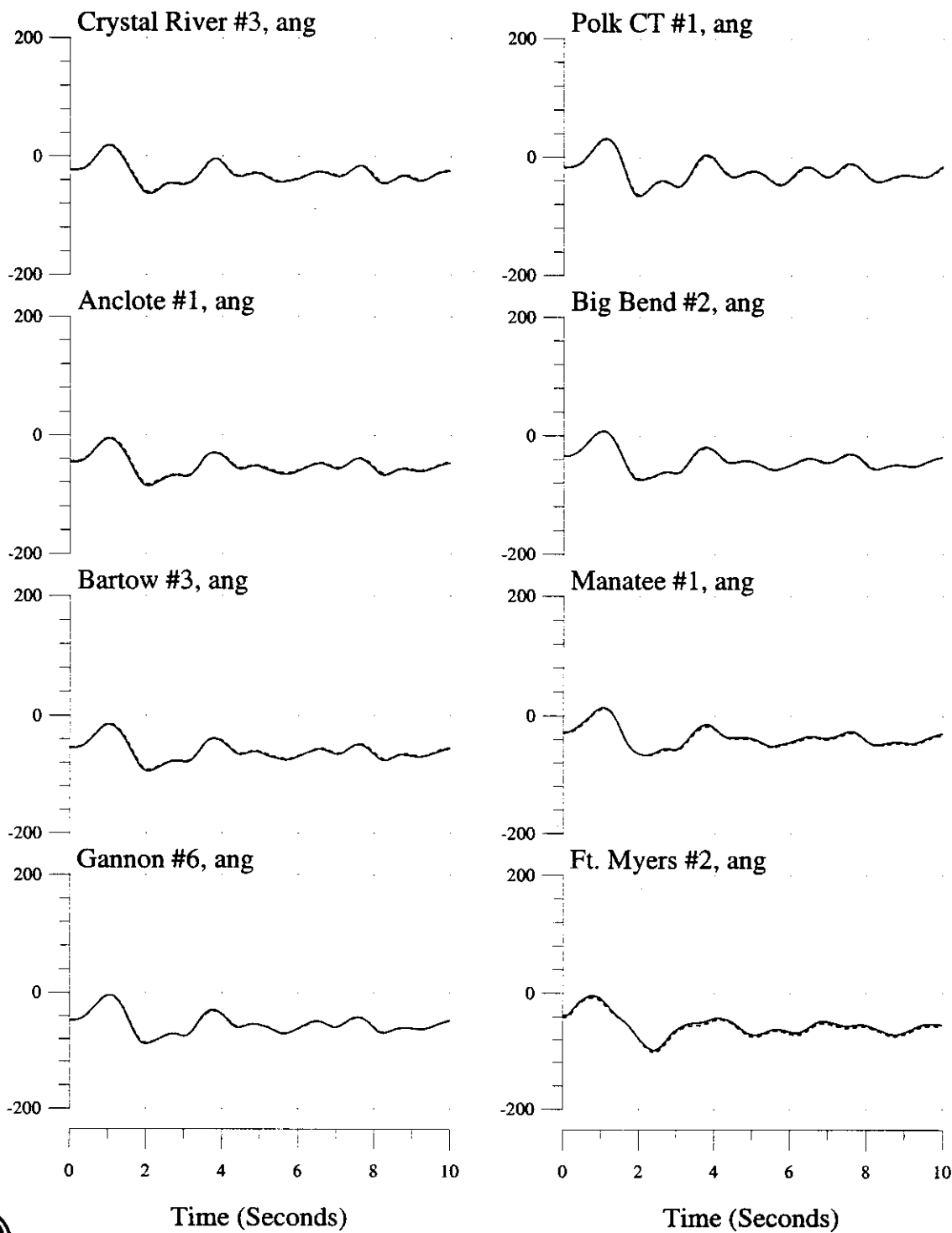
Time (Seconds)

Time (Seconds)



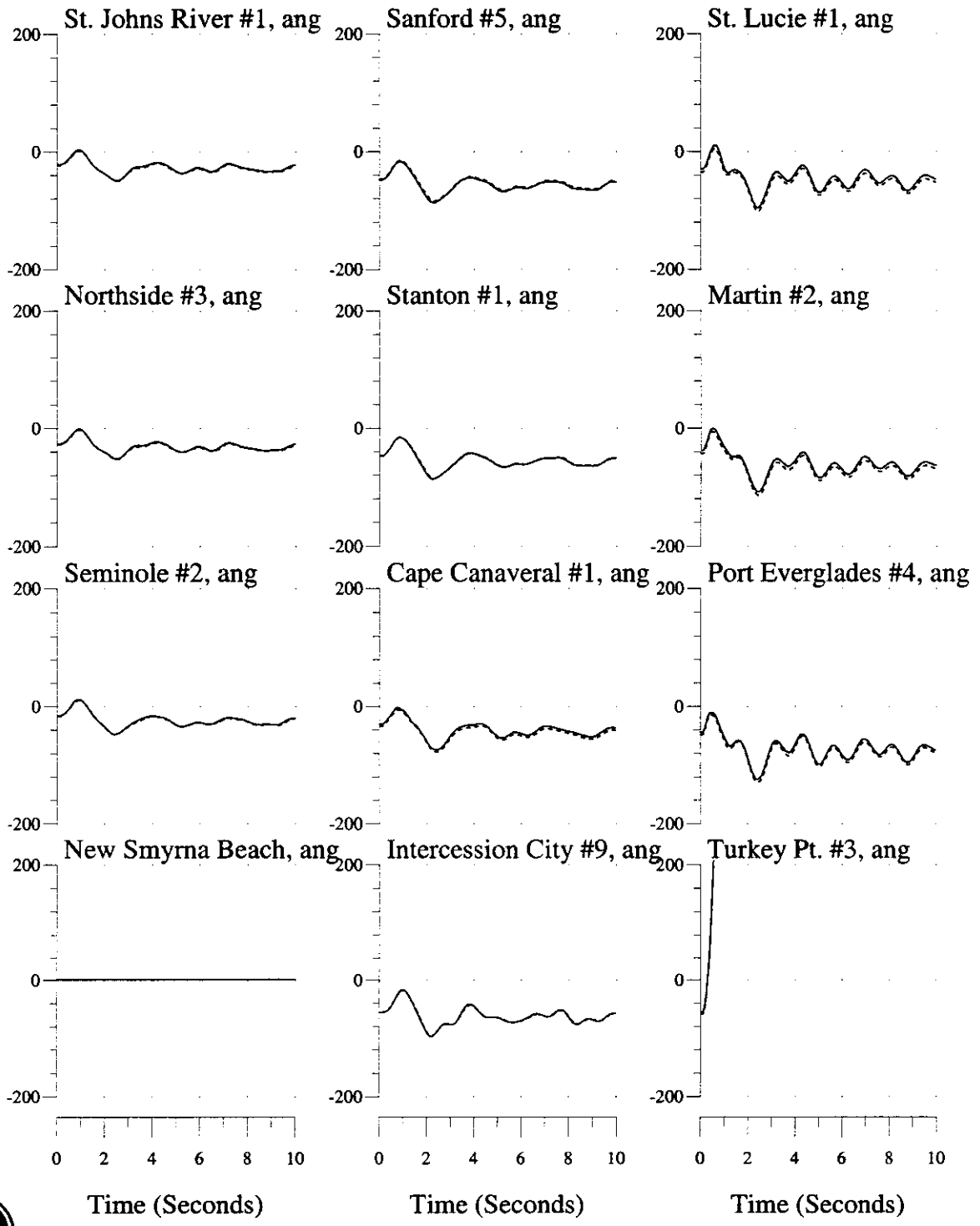
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



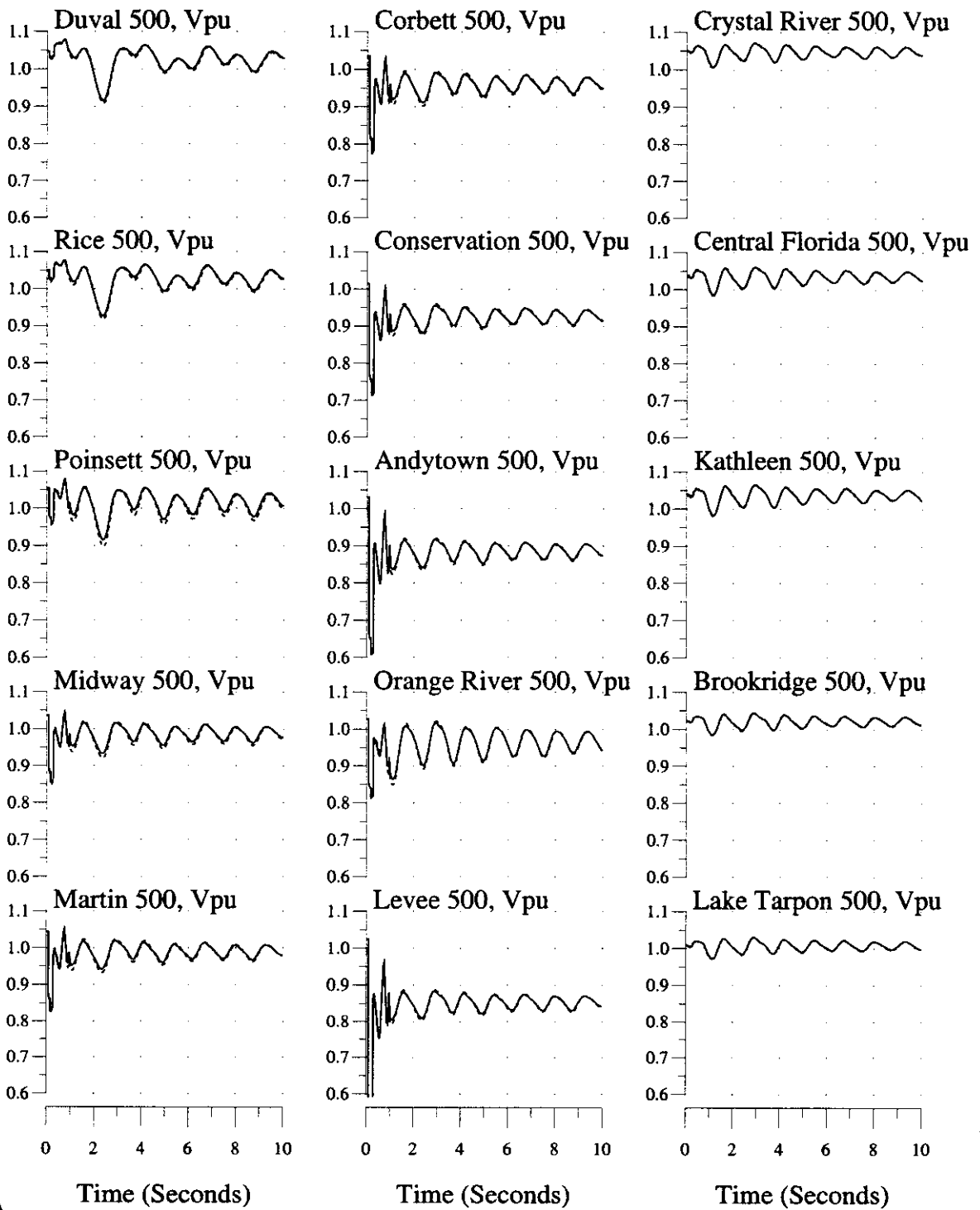
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Summer System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



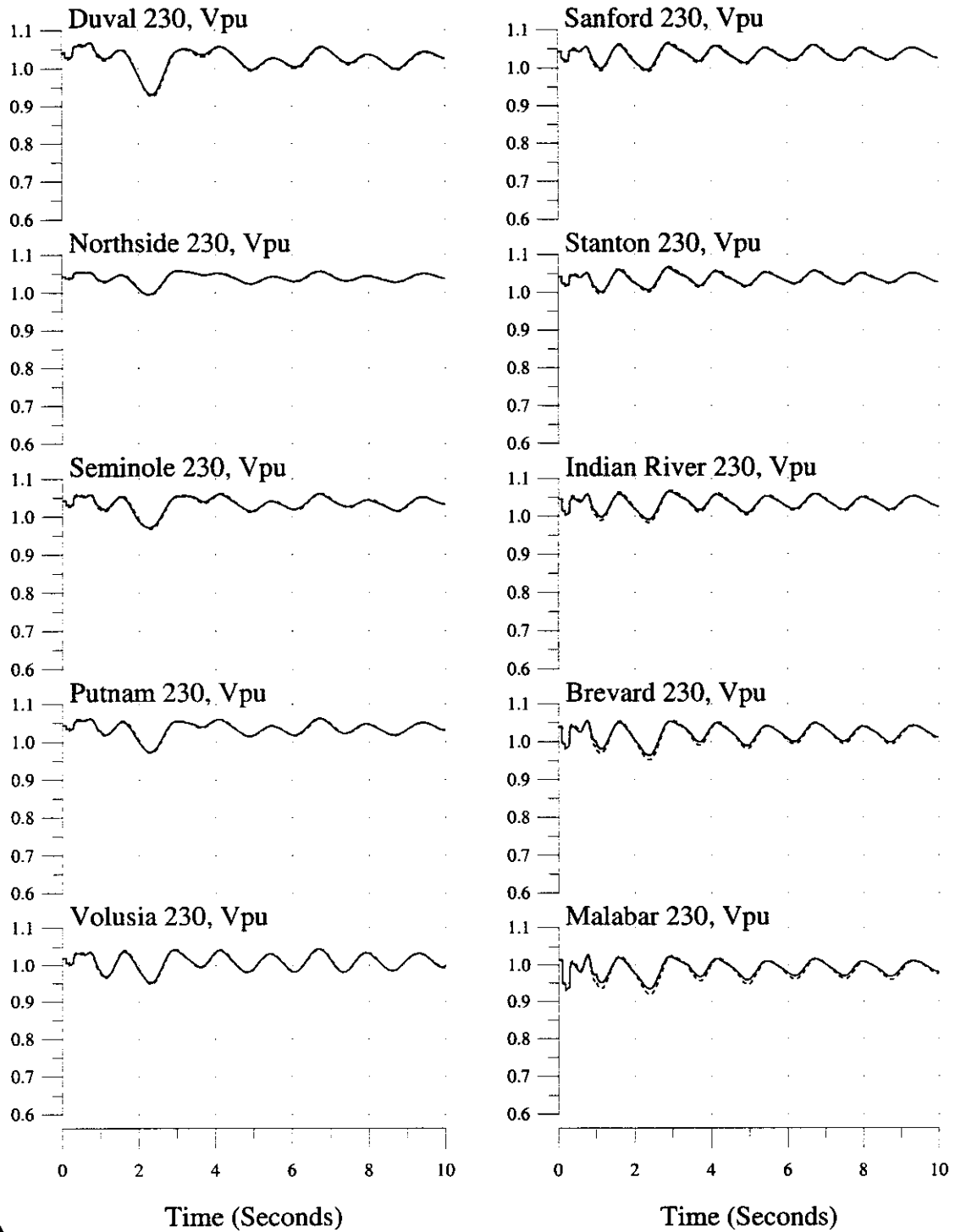
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Summer System

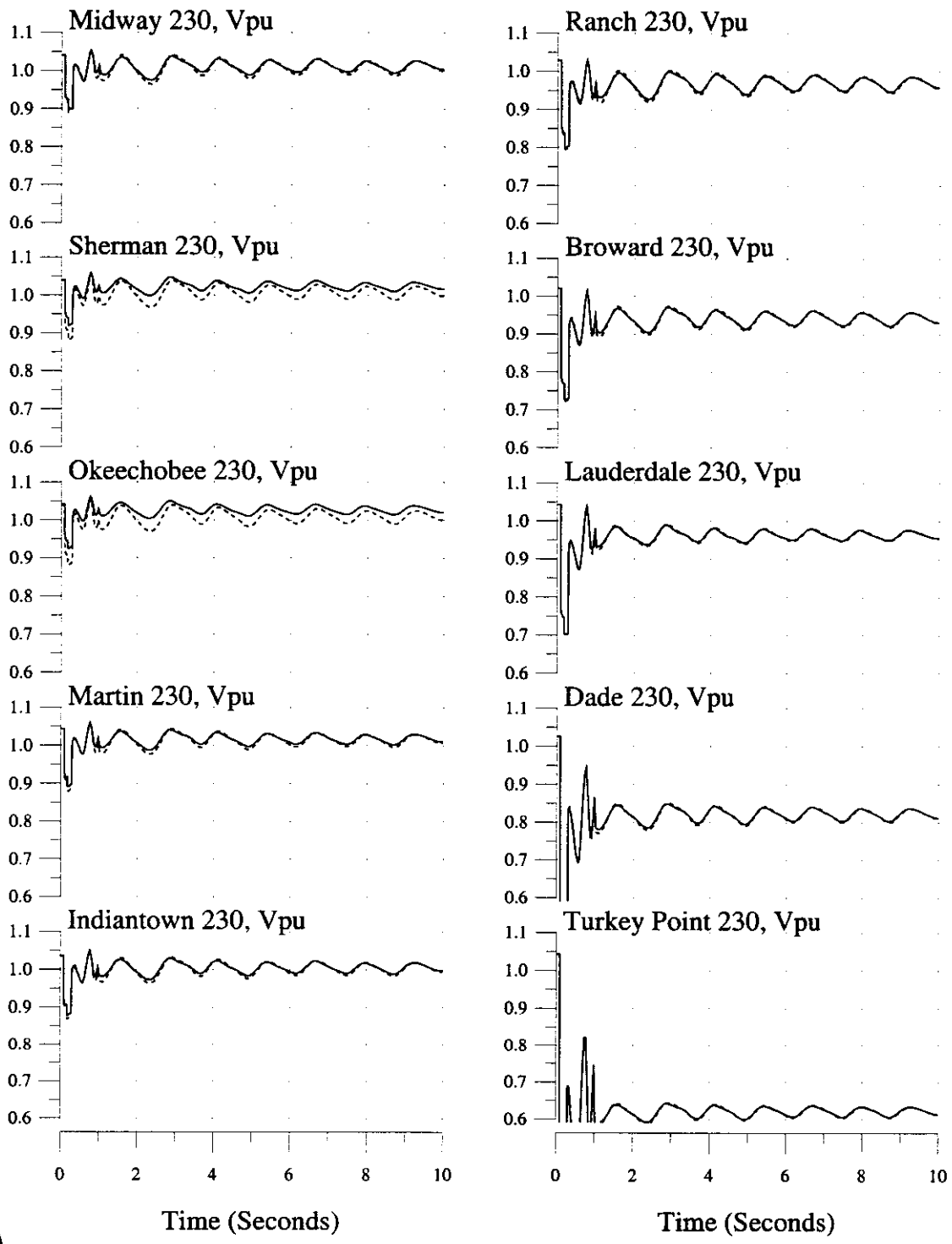
Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without





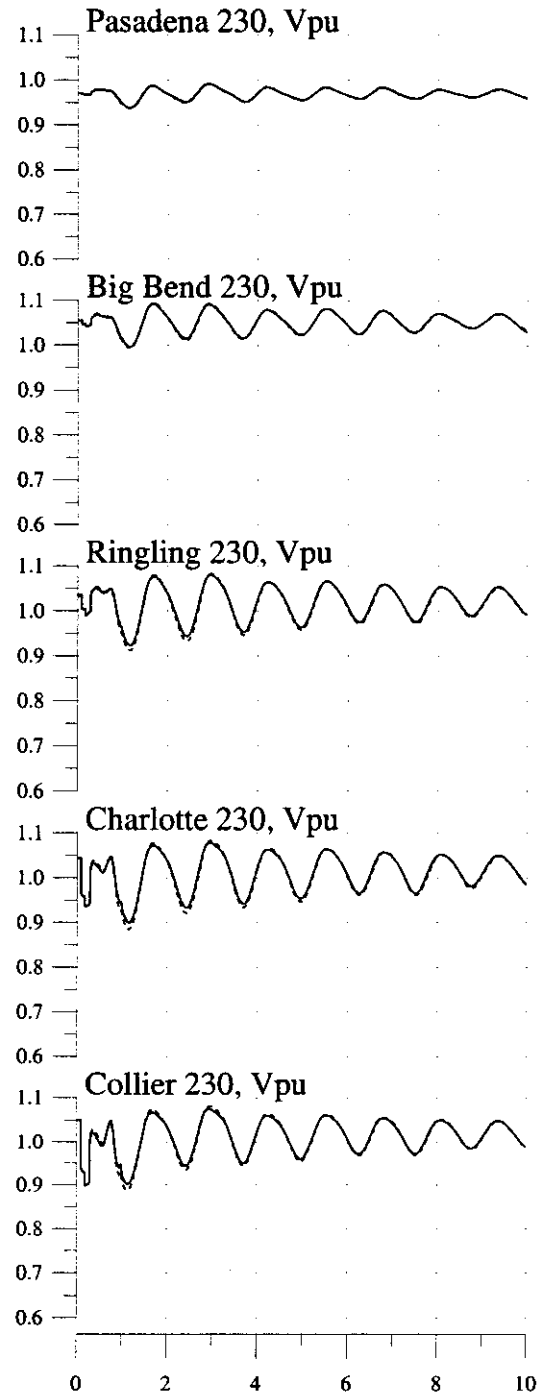
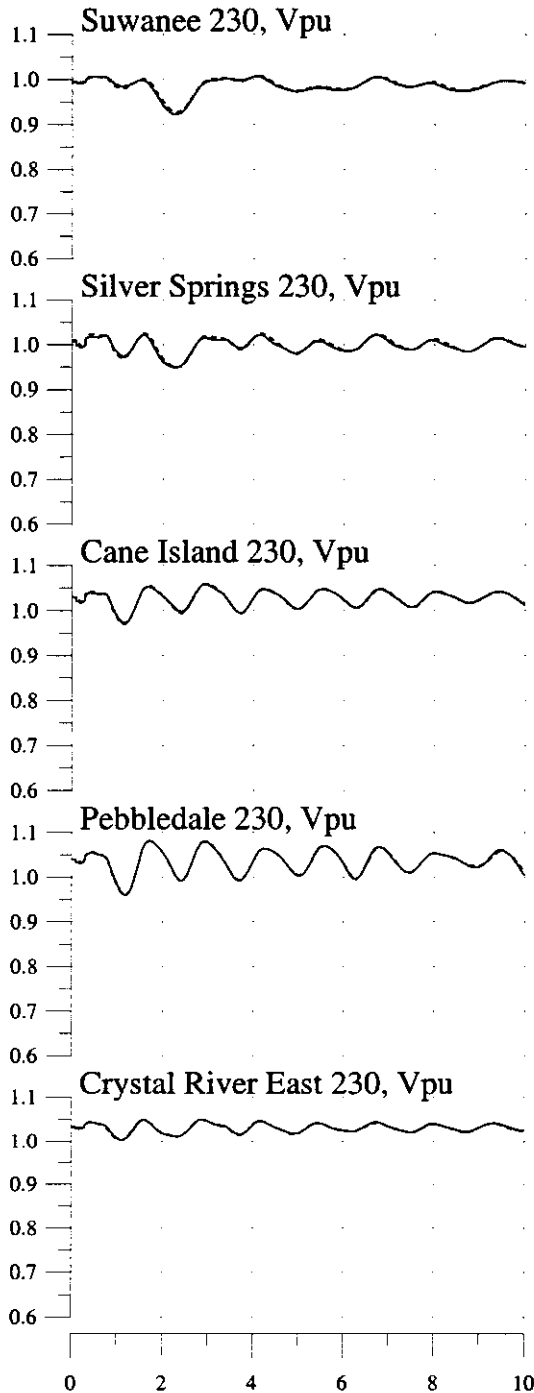
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



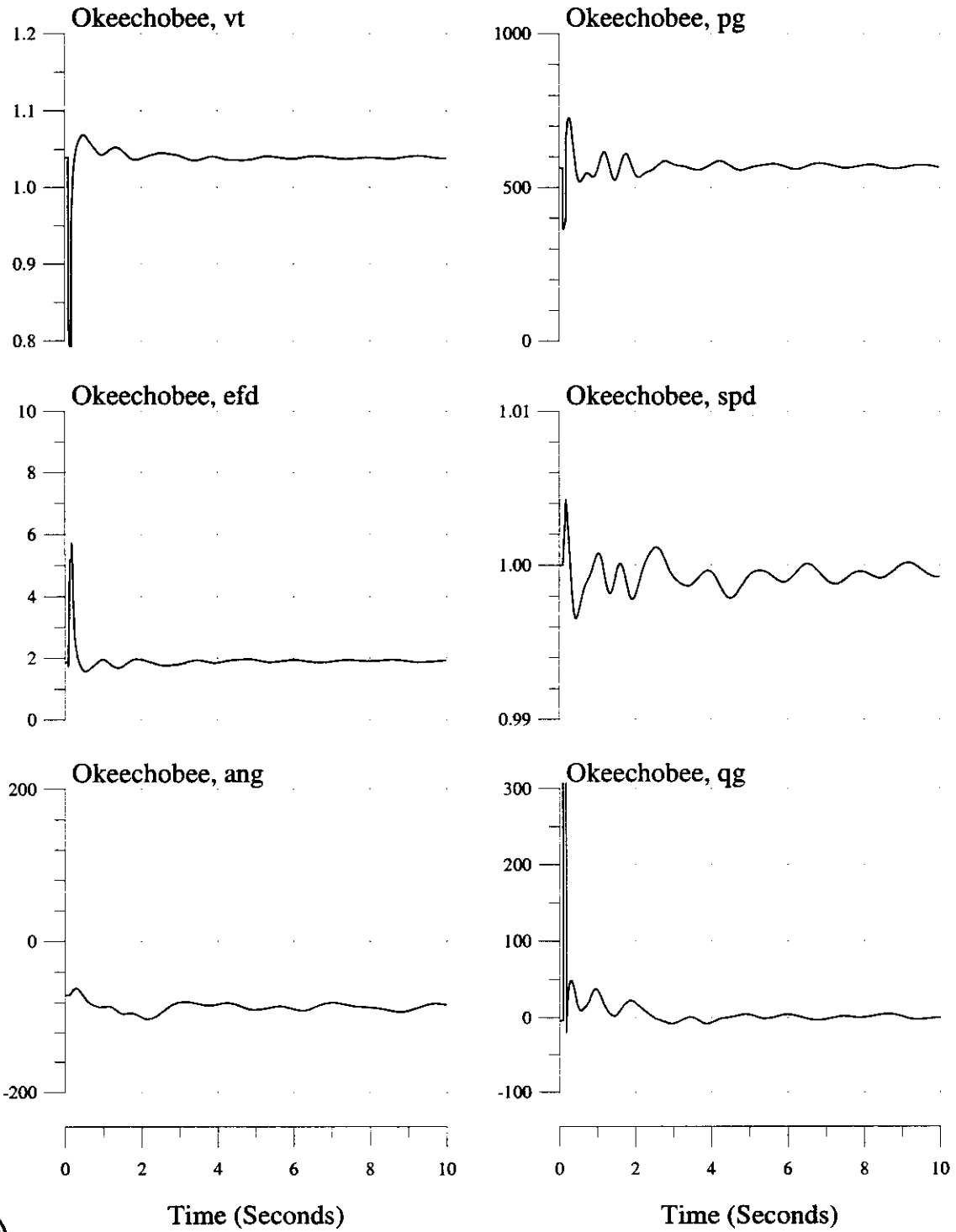
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Summer System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



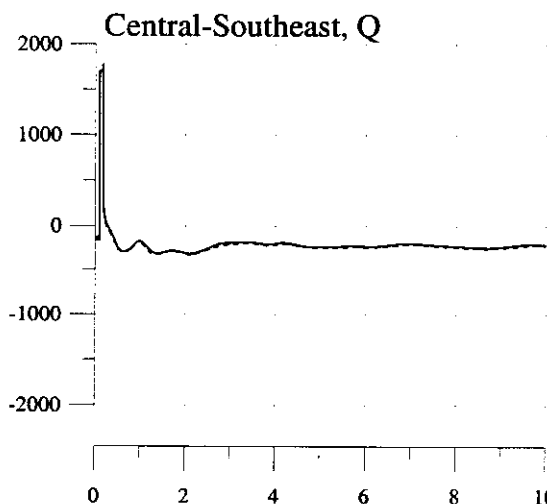
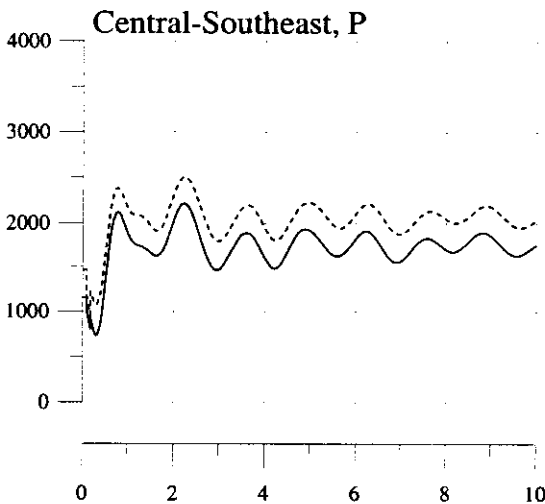
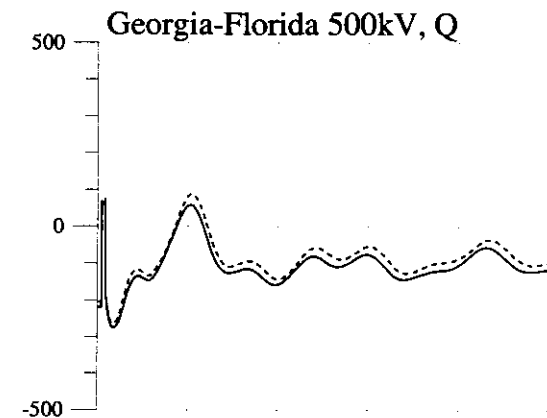
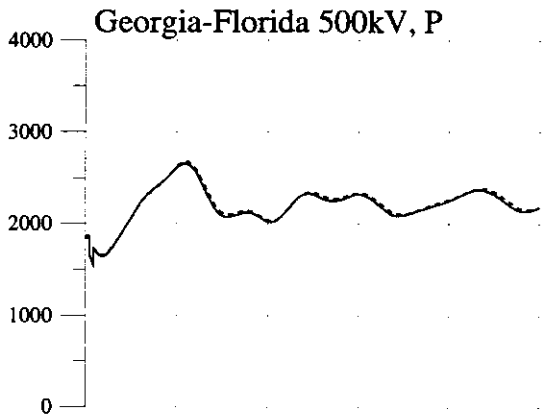
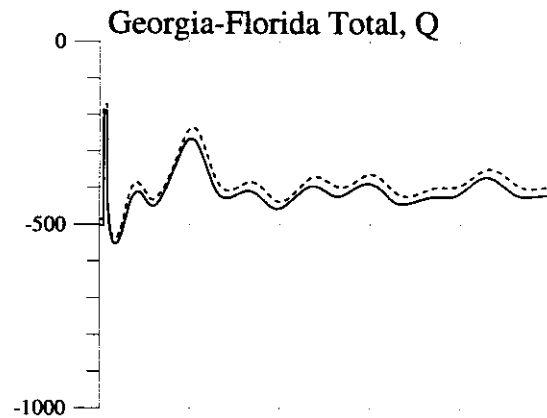
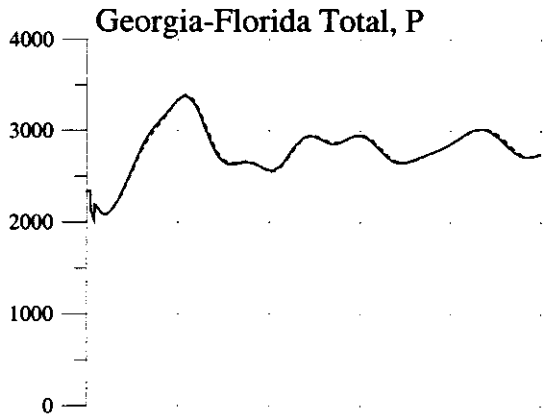


3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System  
 Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



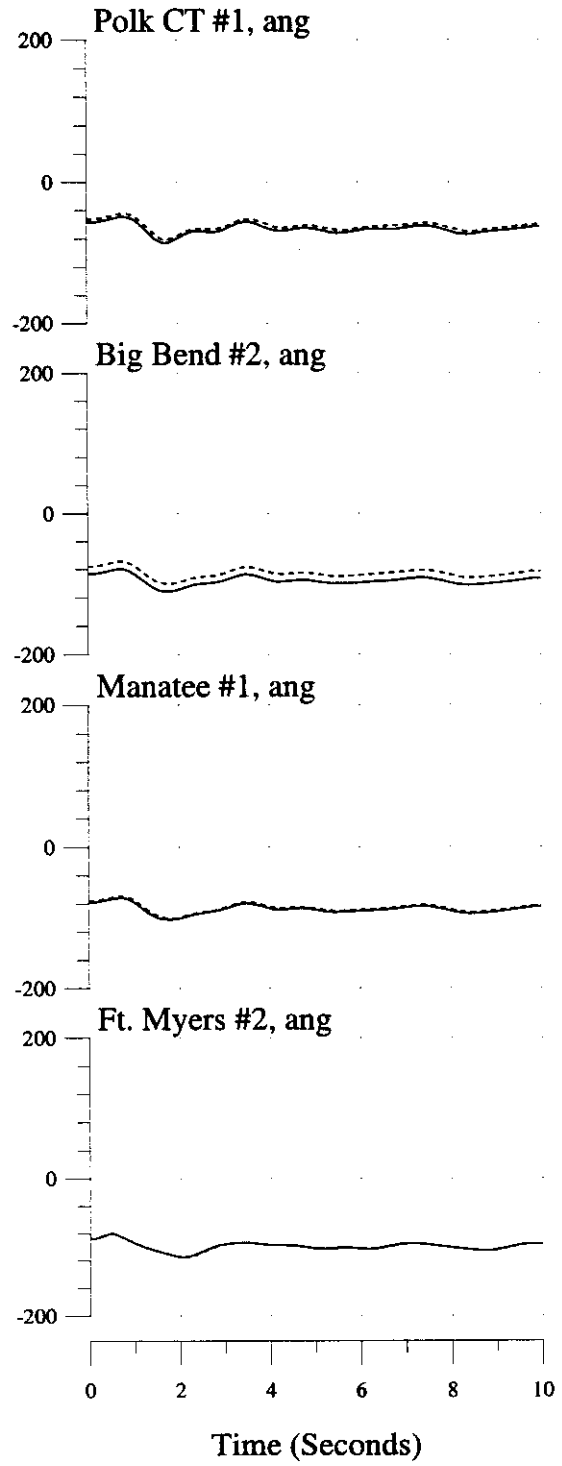
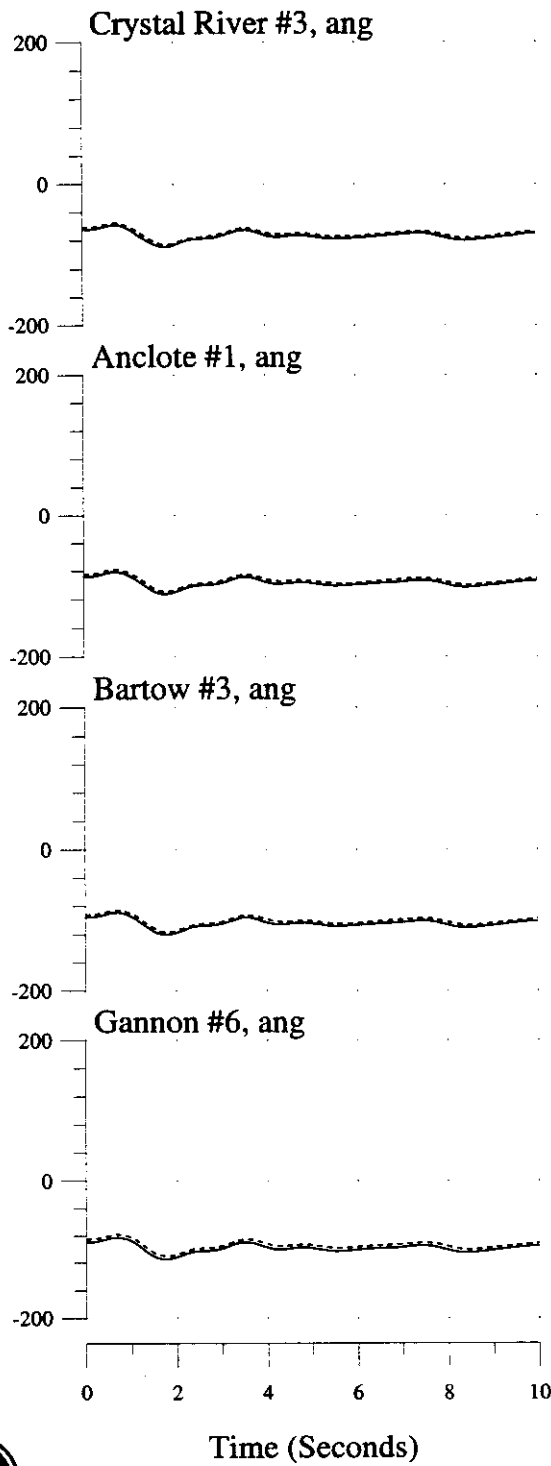
Time (Seconds)

Time (Seconds)



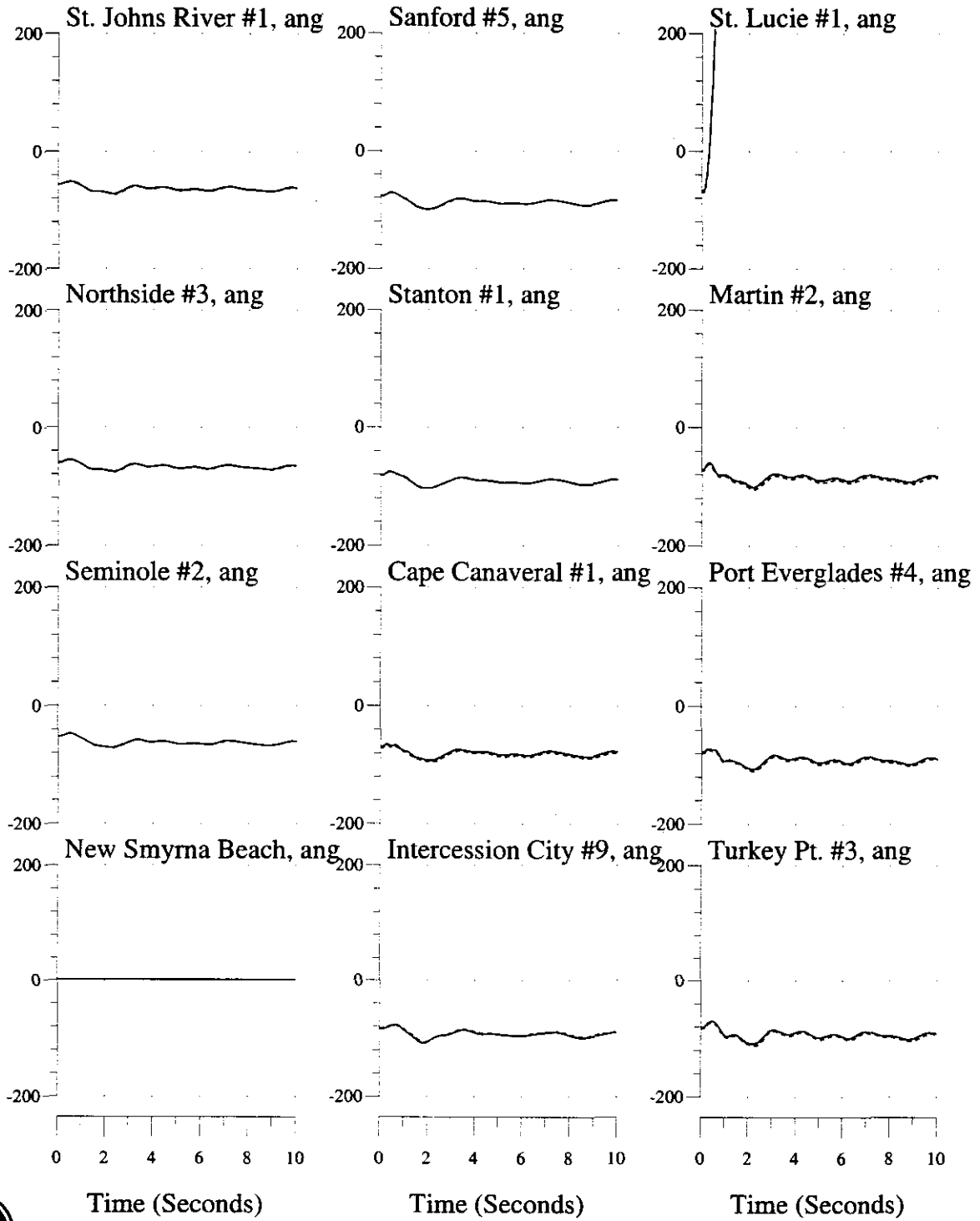
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



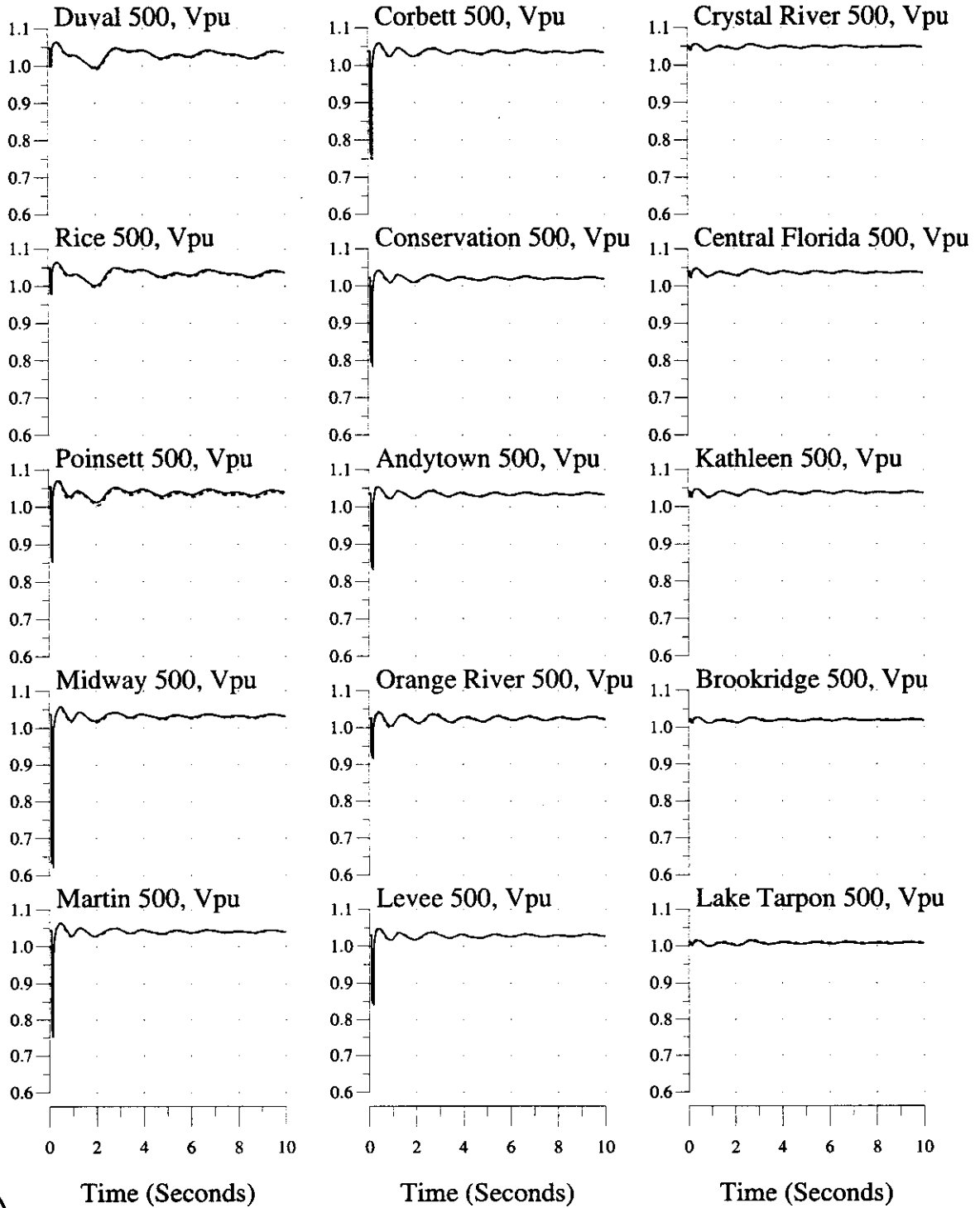
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

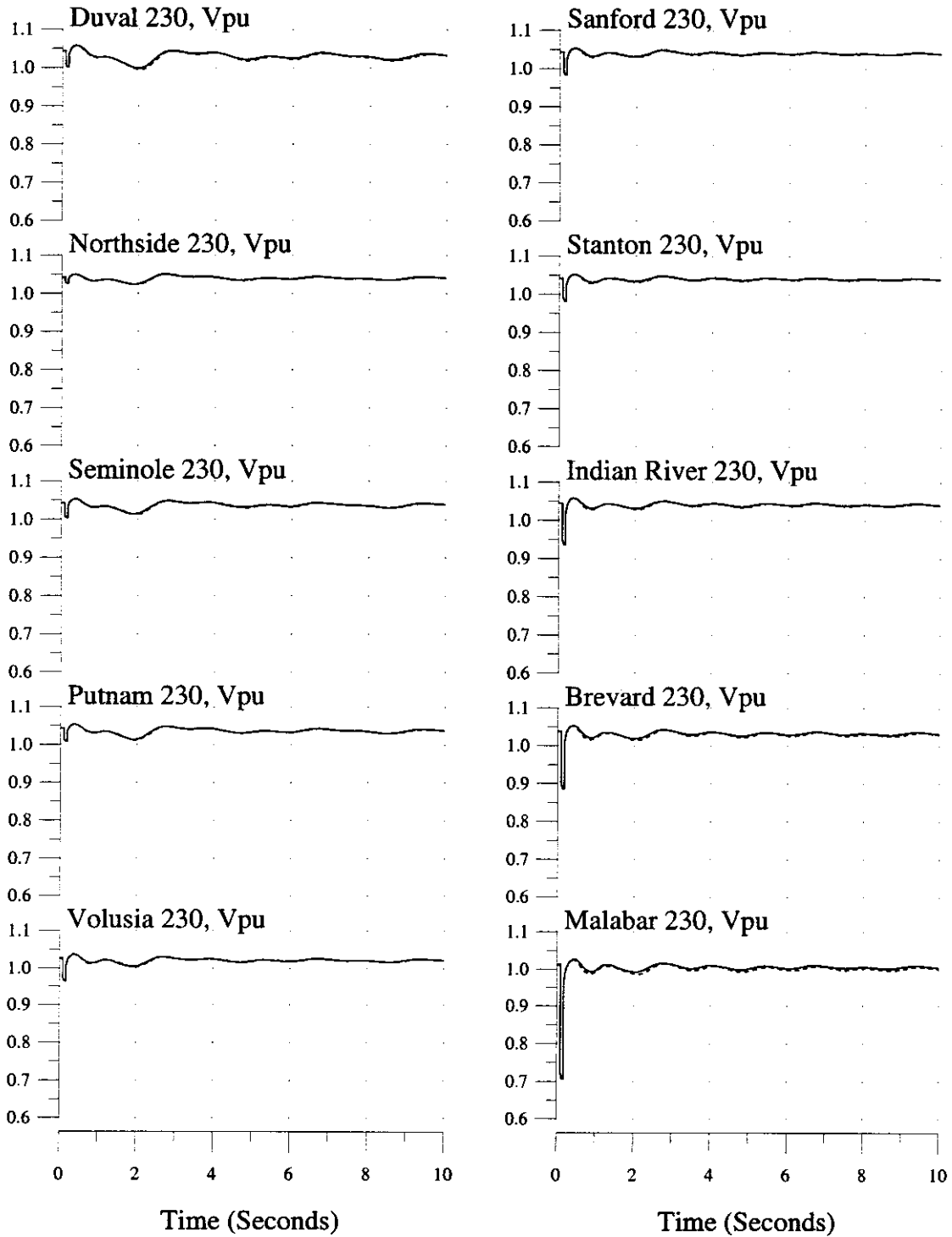
Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without





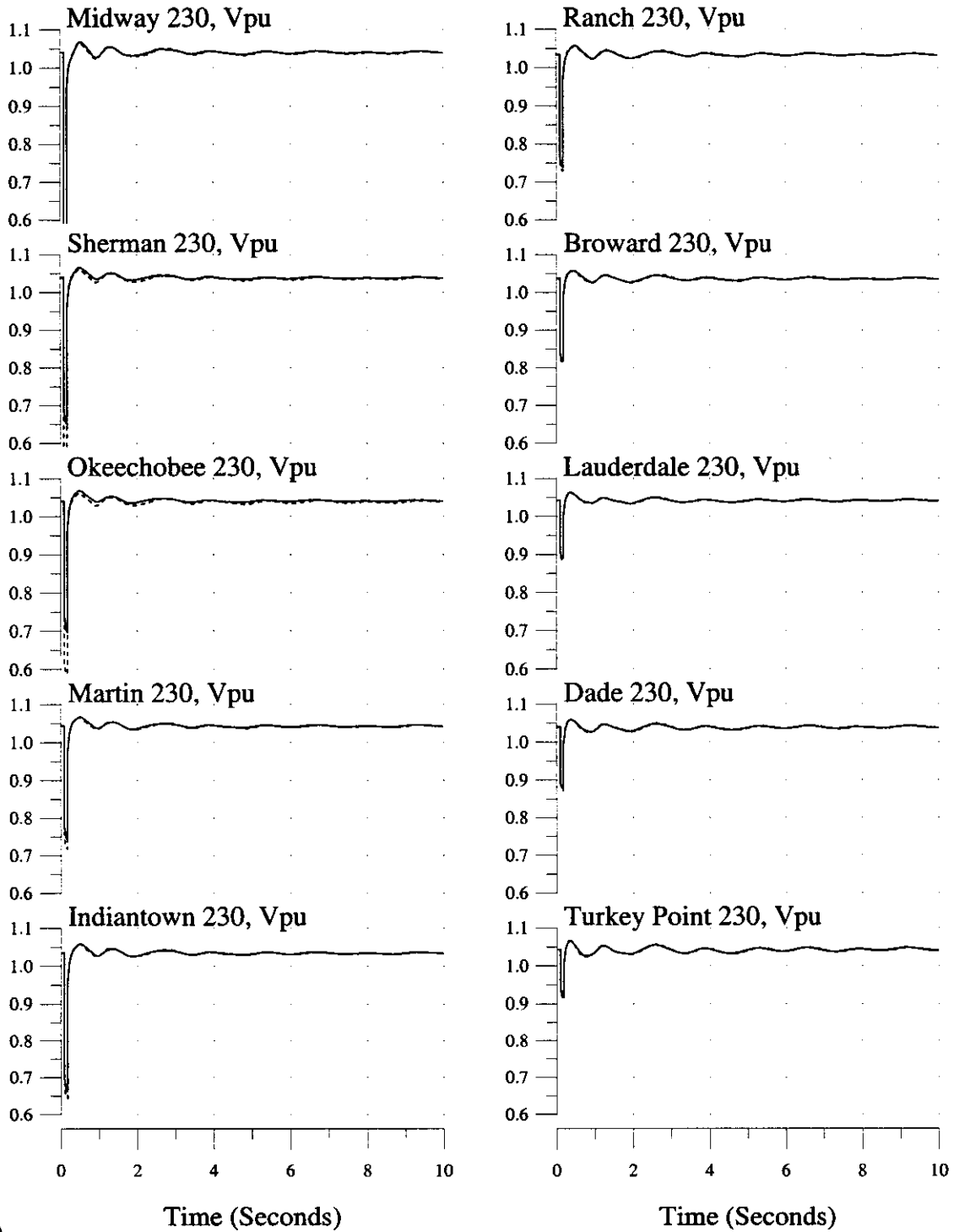
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



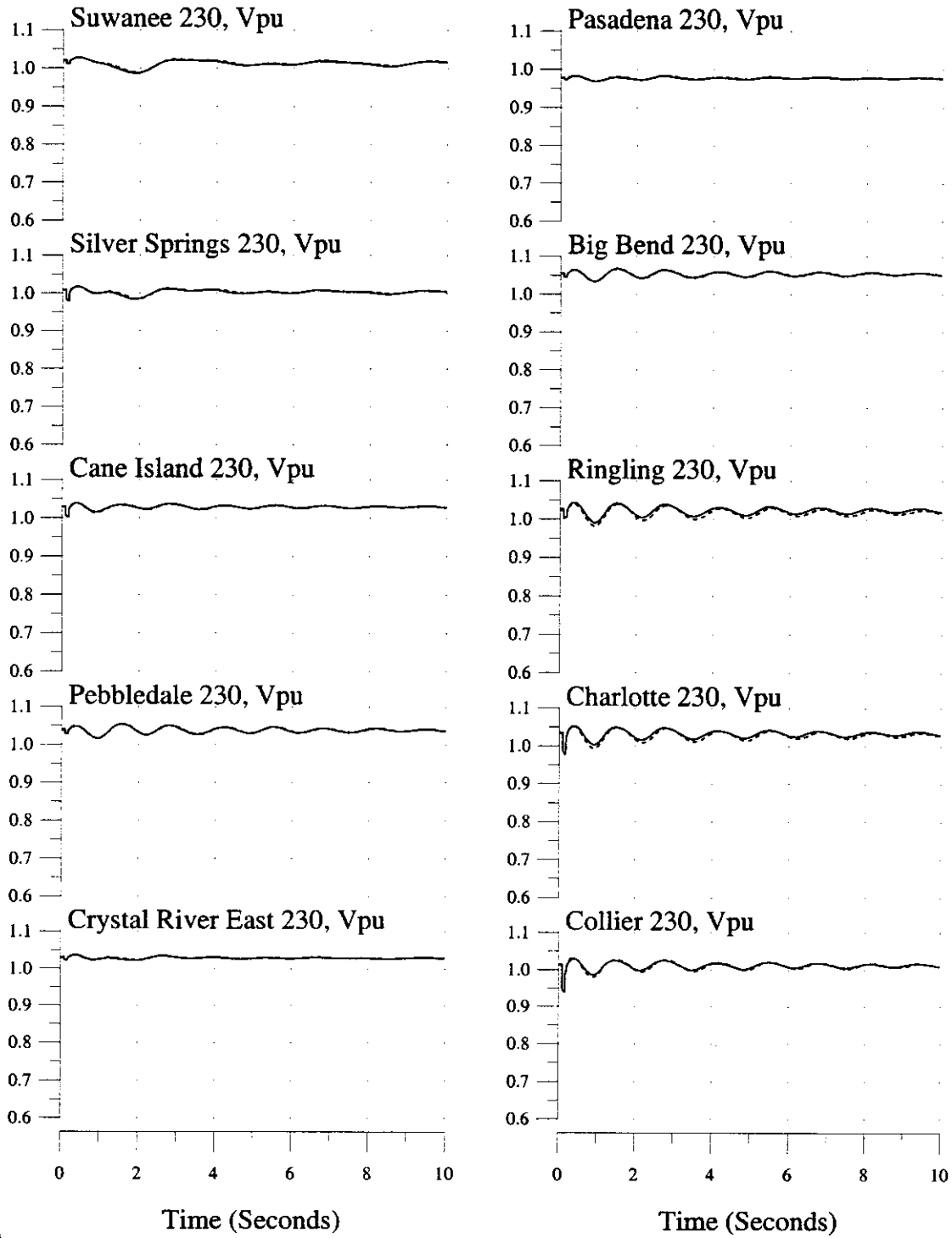
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without

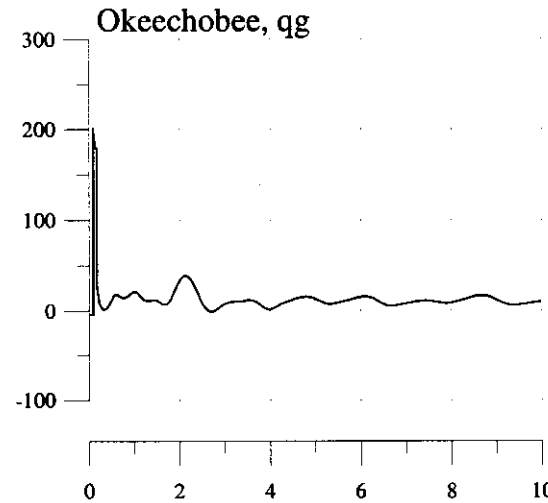
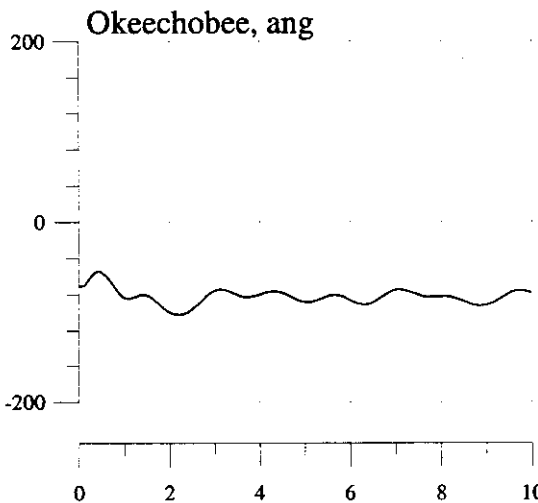
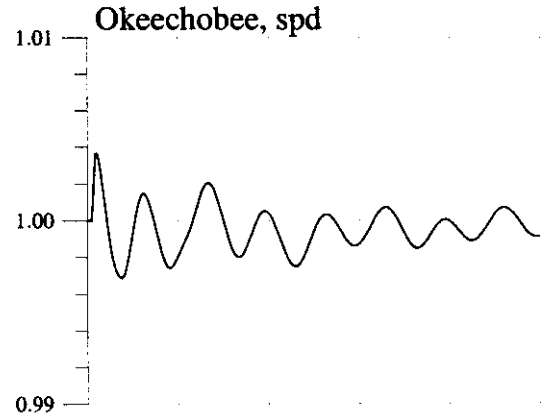
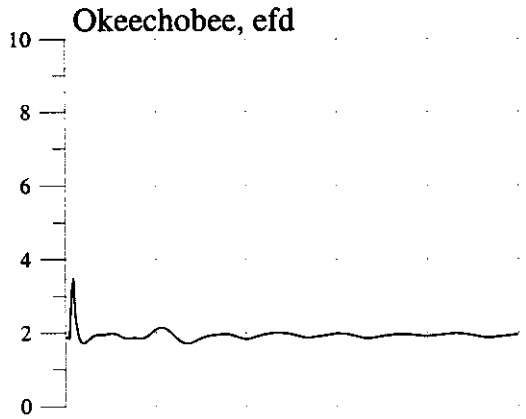
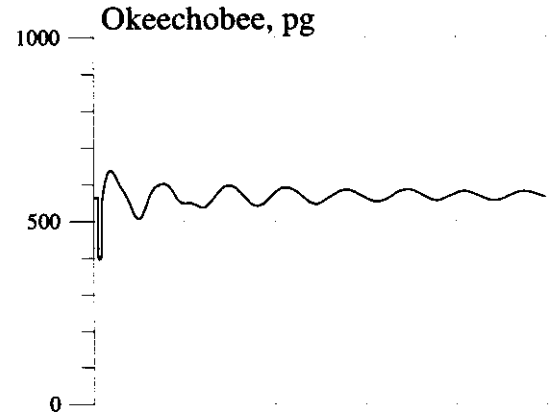
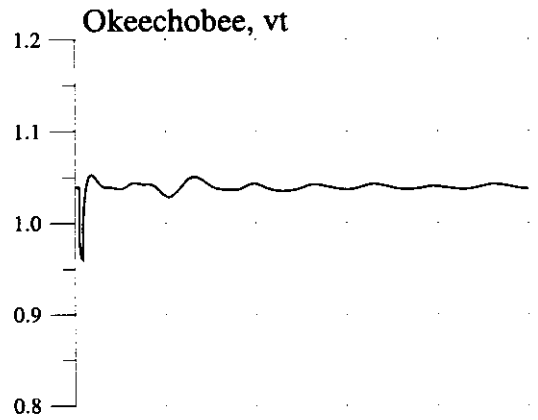


3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System  
 Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



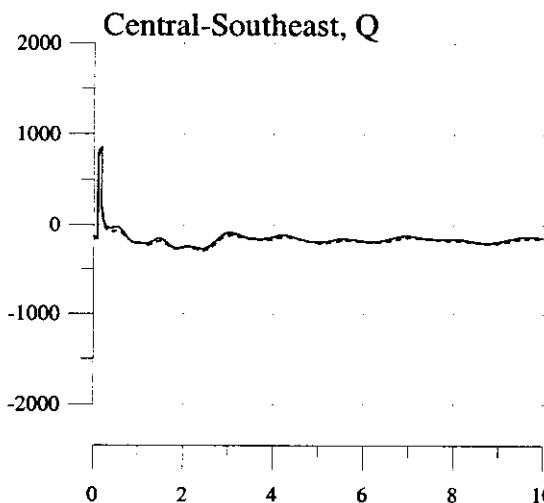
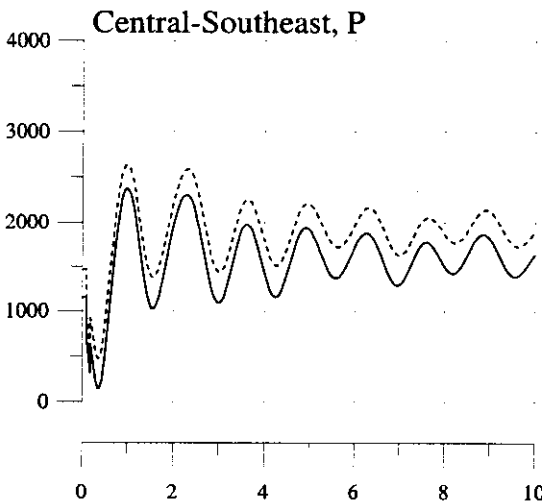
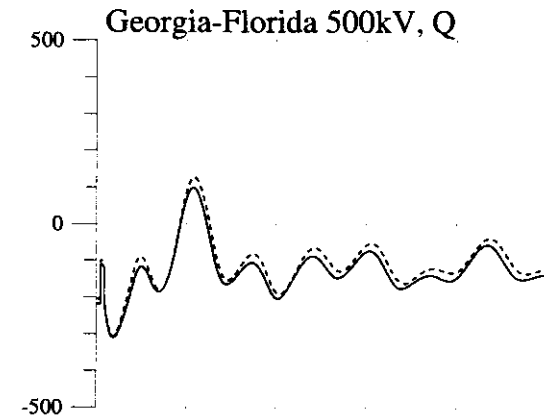
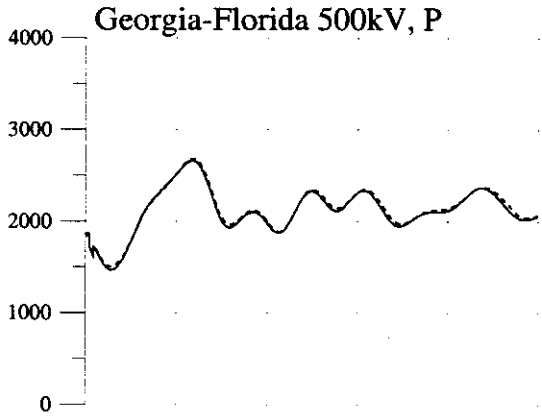
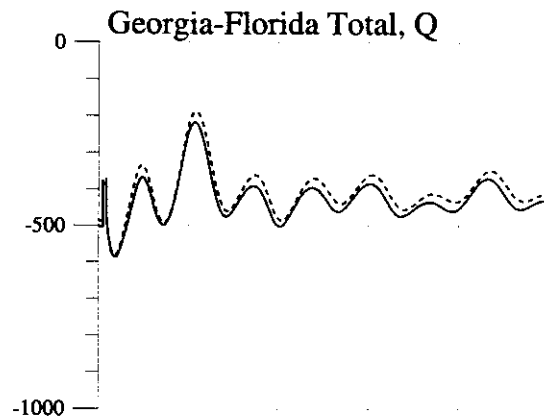
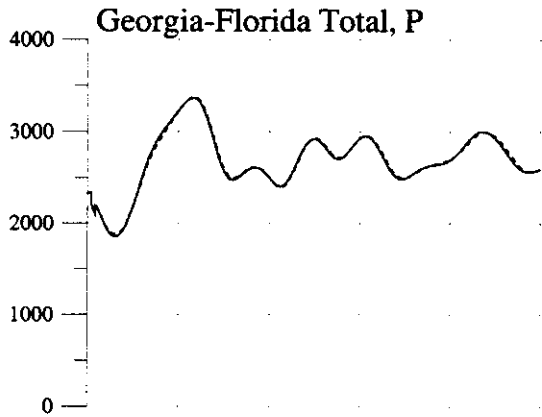
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



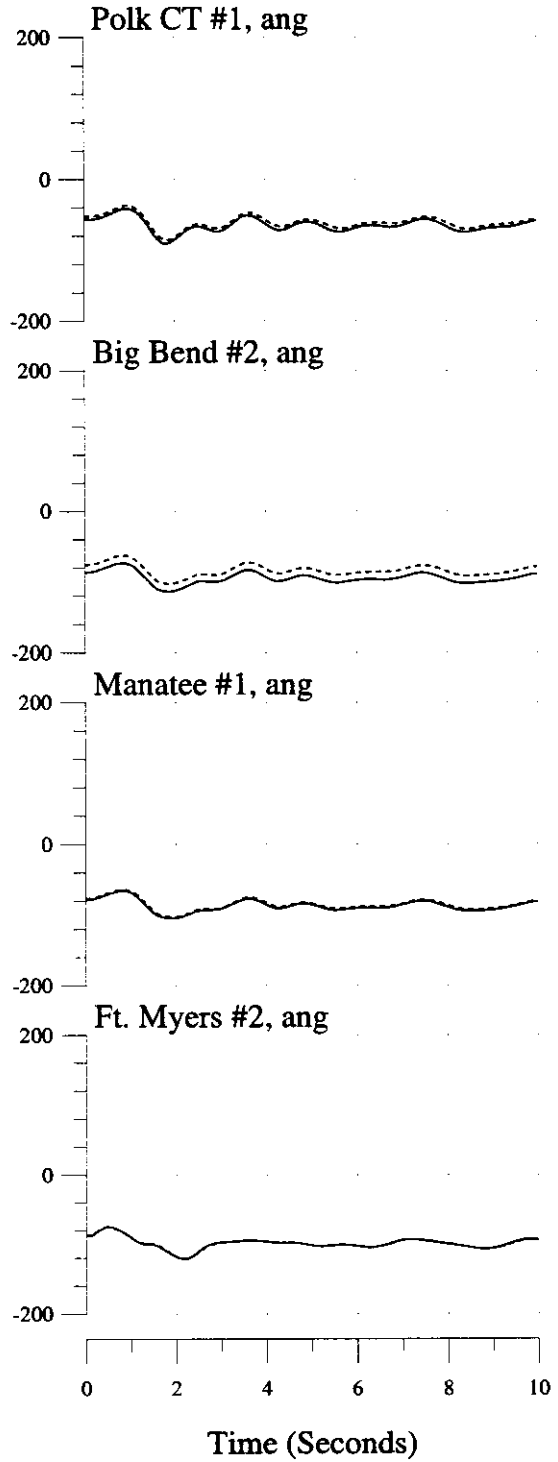
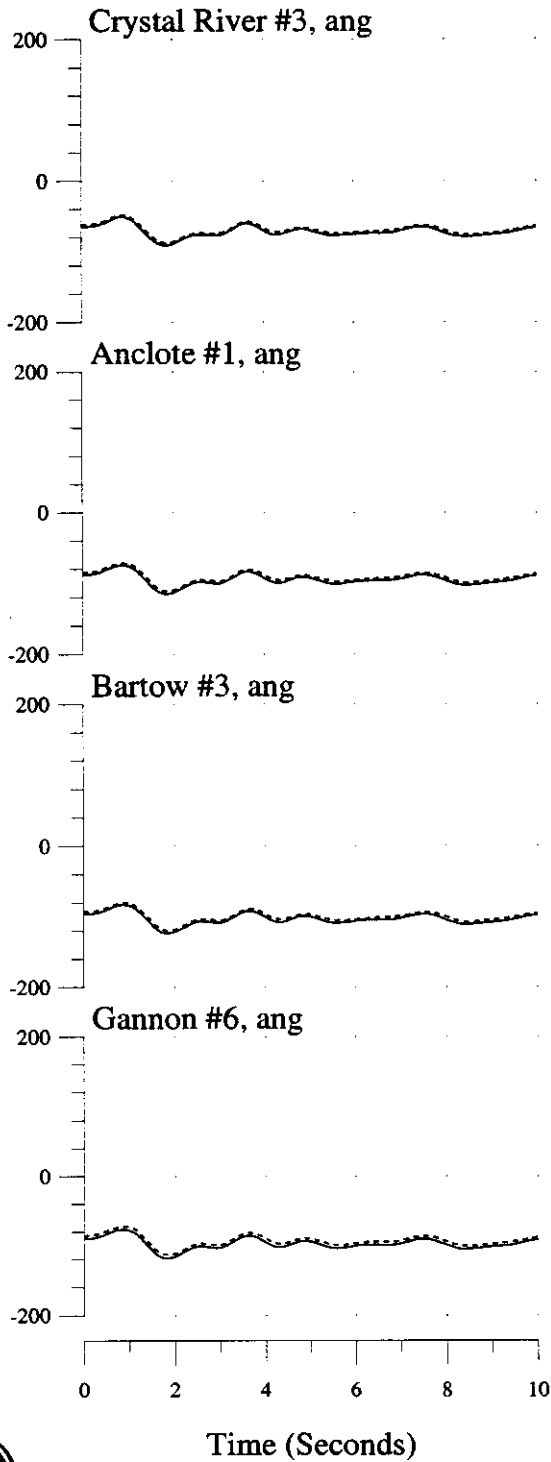
Time (Seconds)

Time (Seconds)



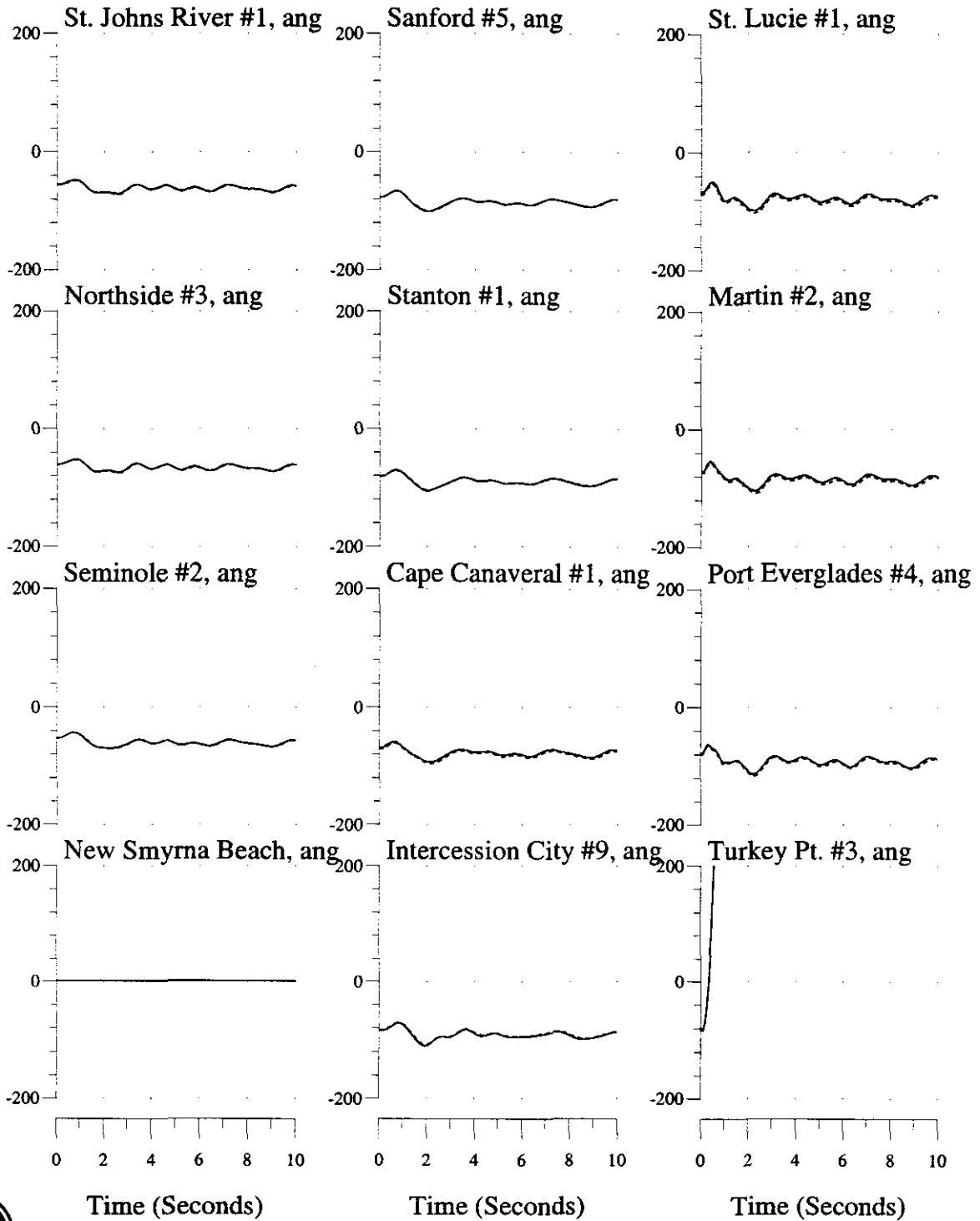
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



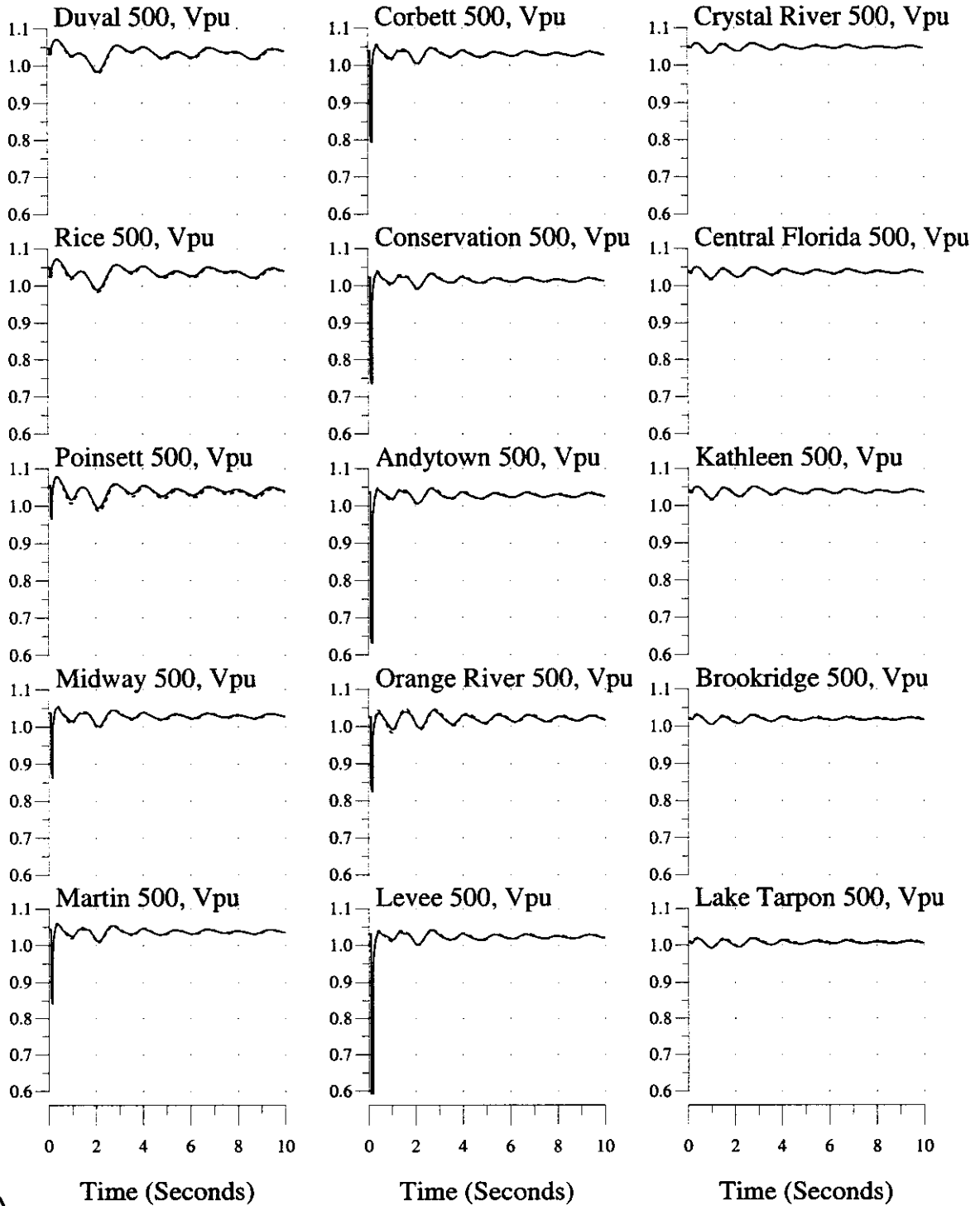
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

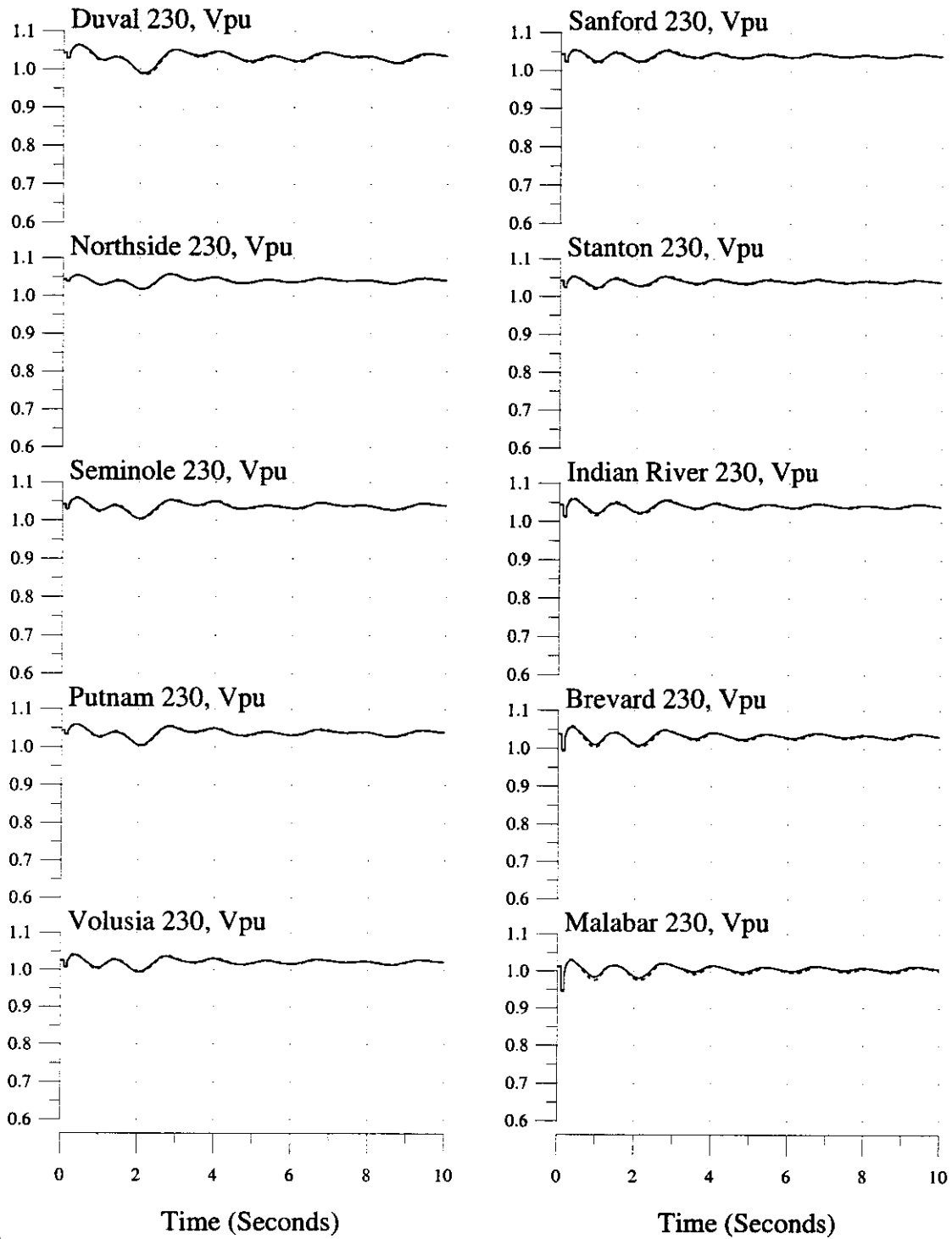
Bus Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without





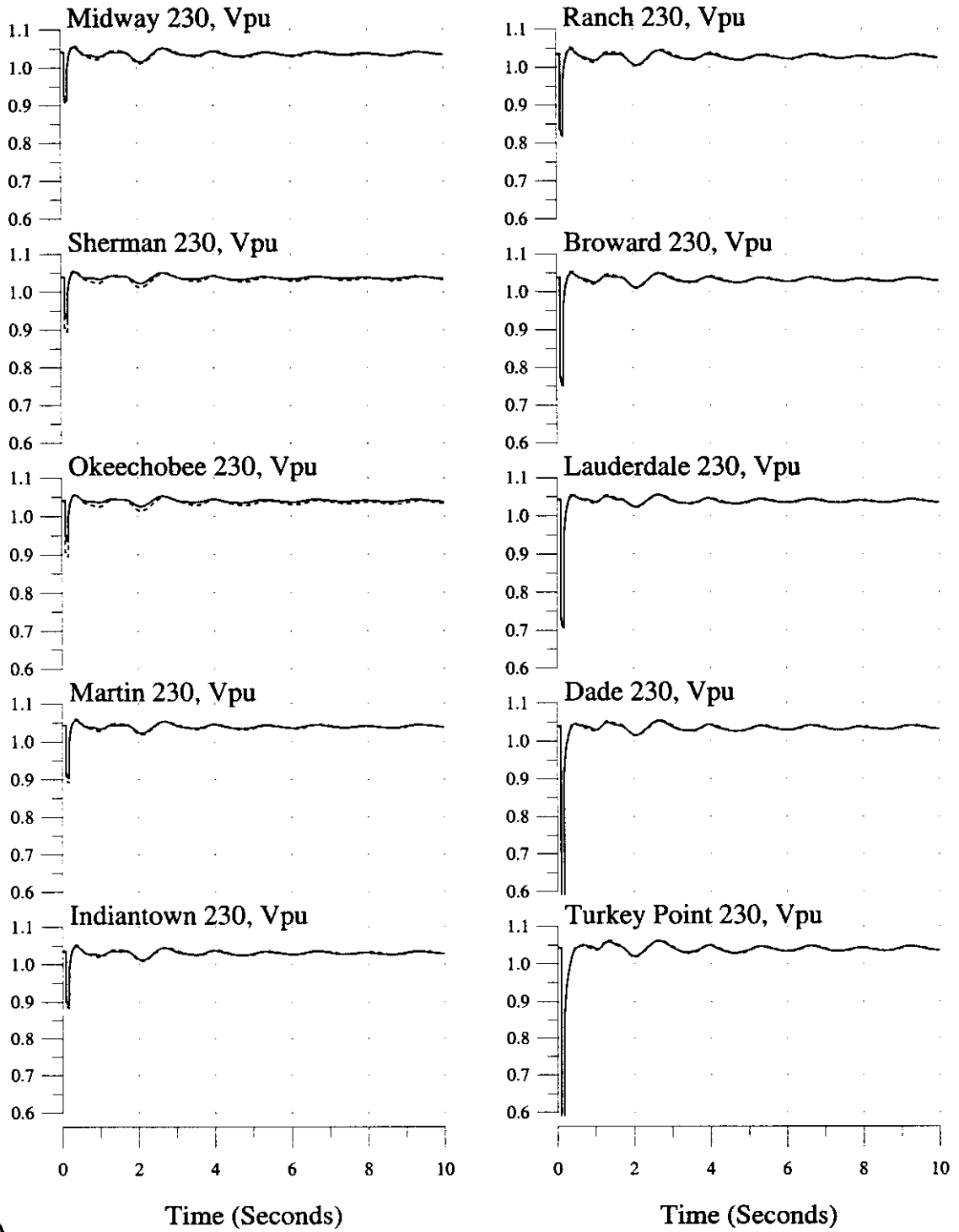
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



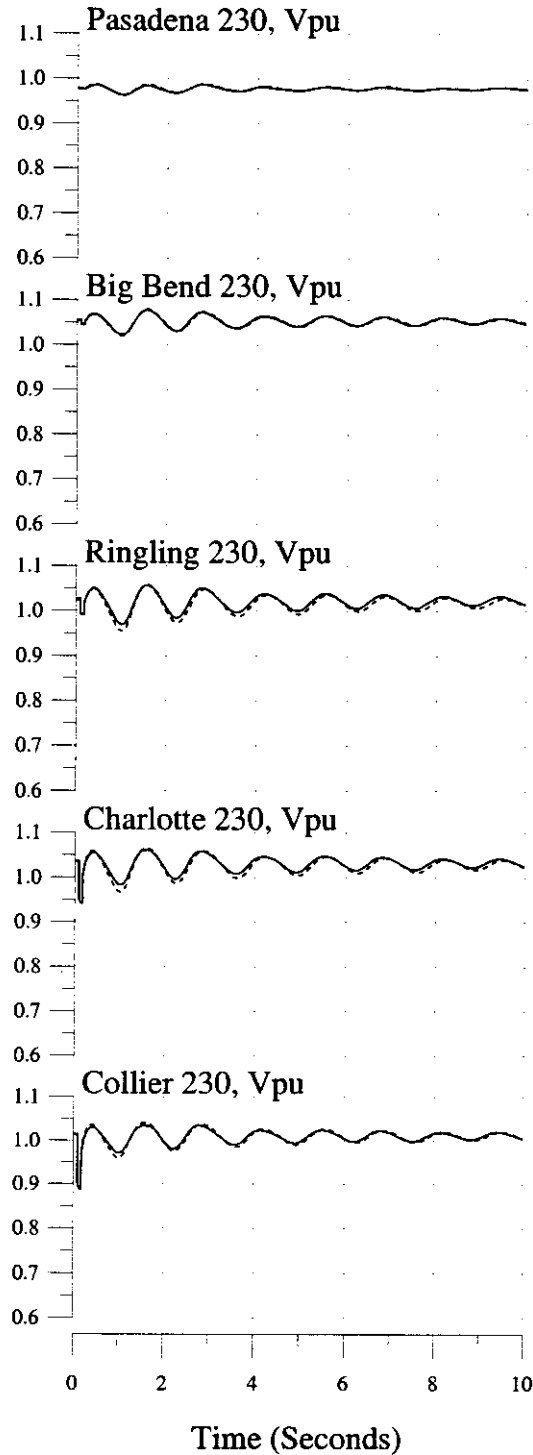
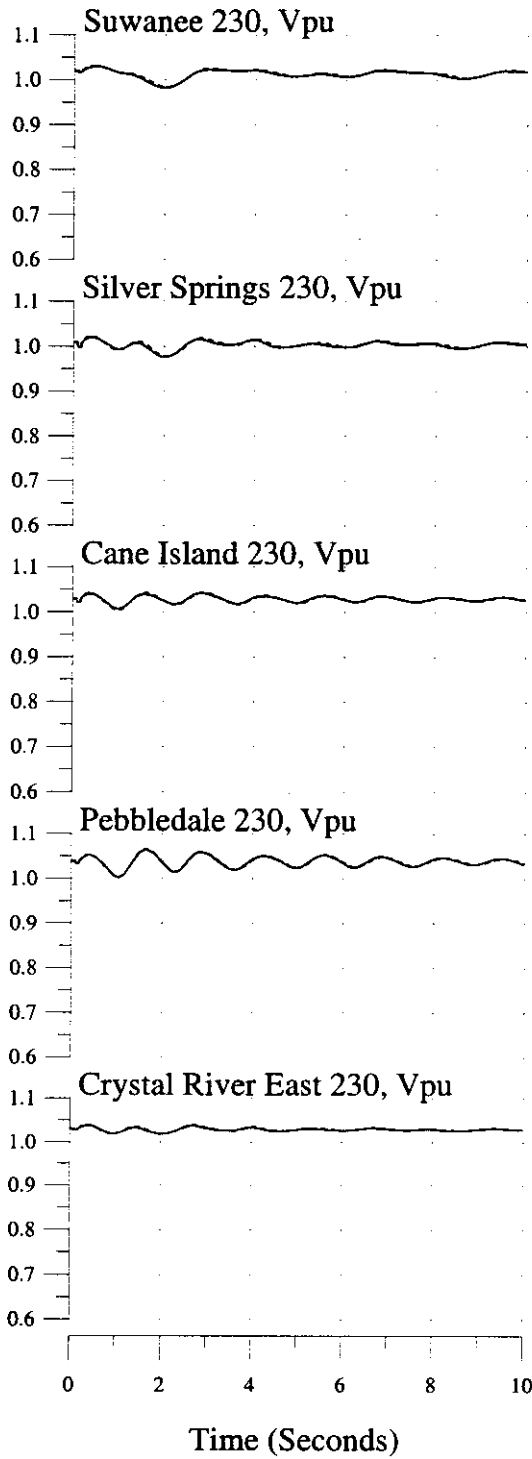
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



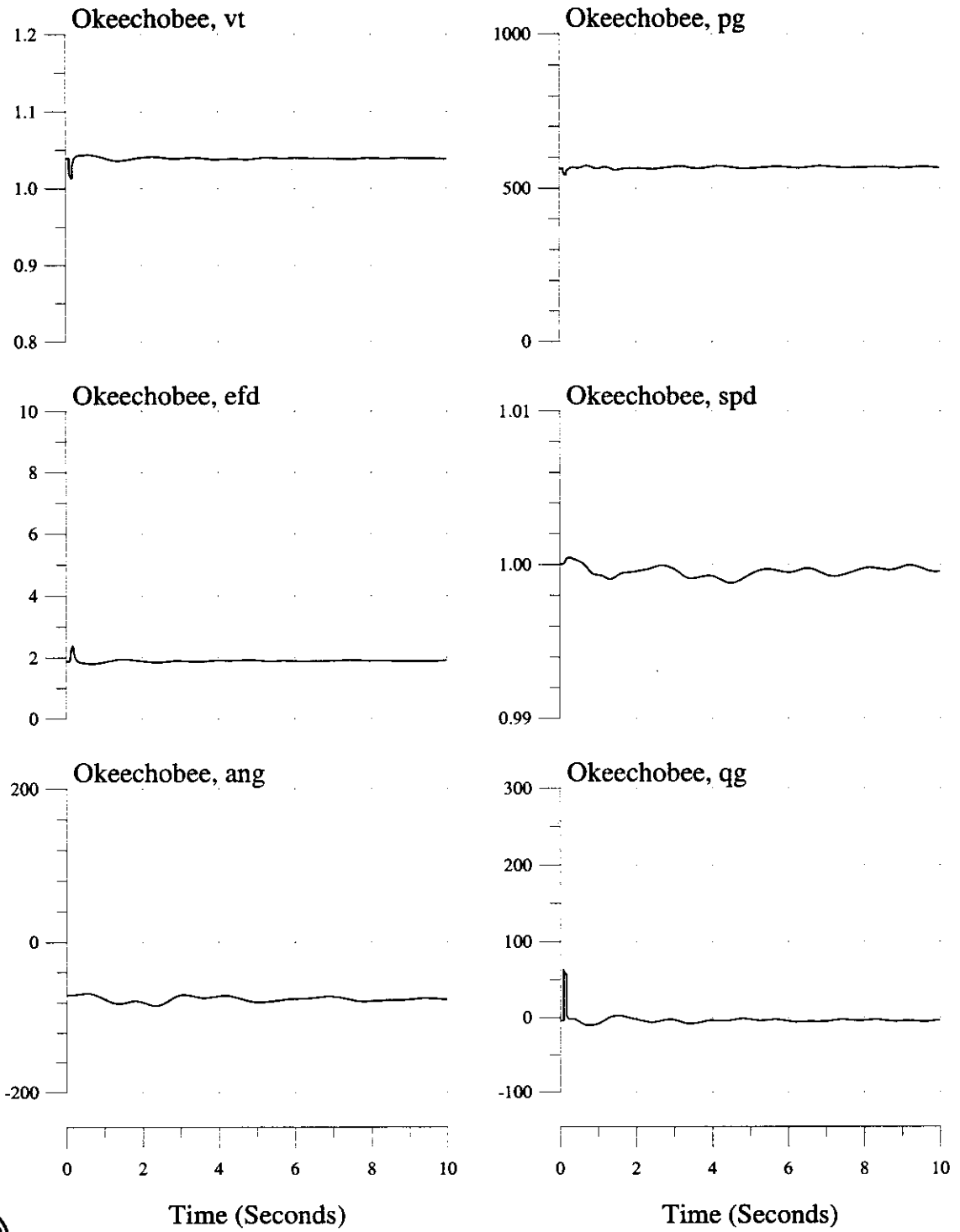
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without



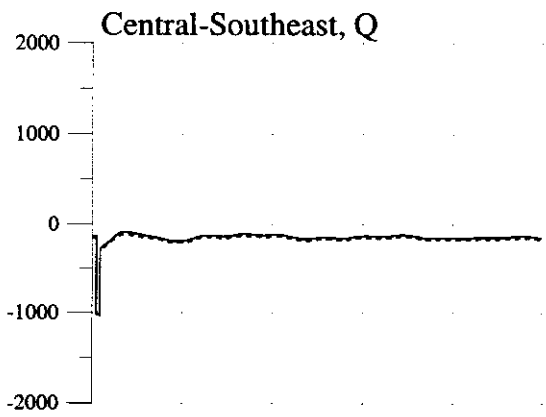
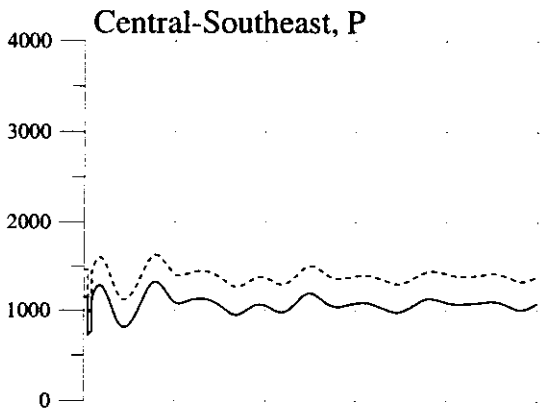
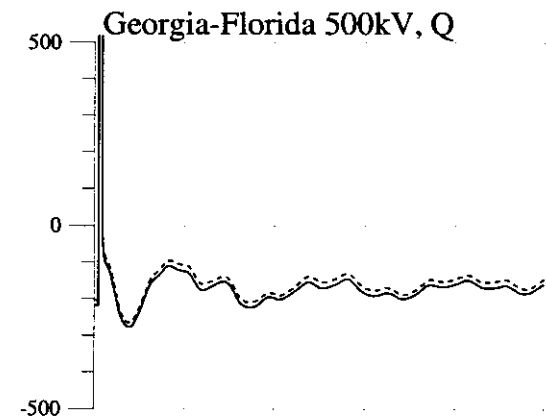
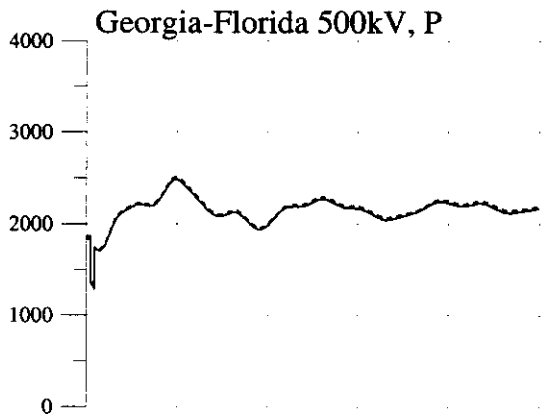
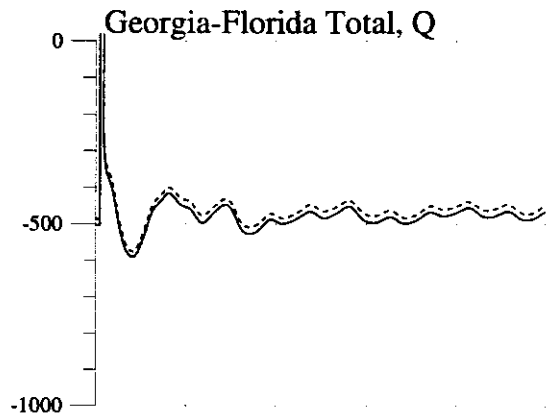
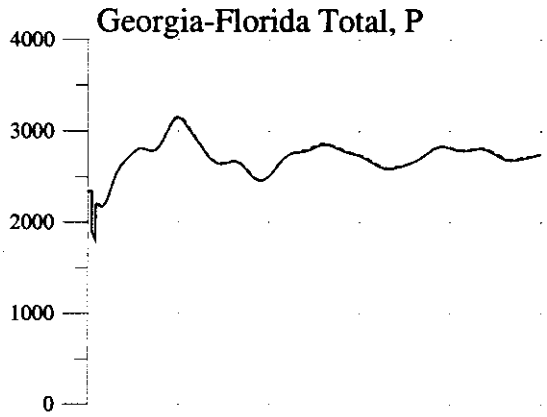
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



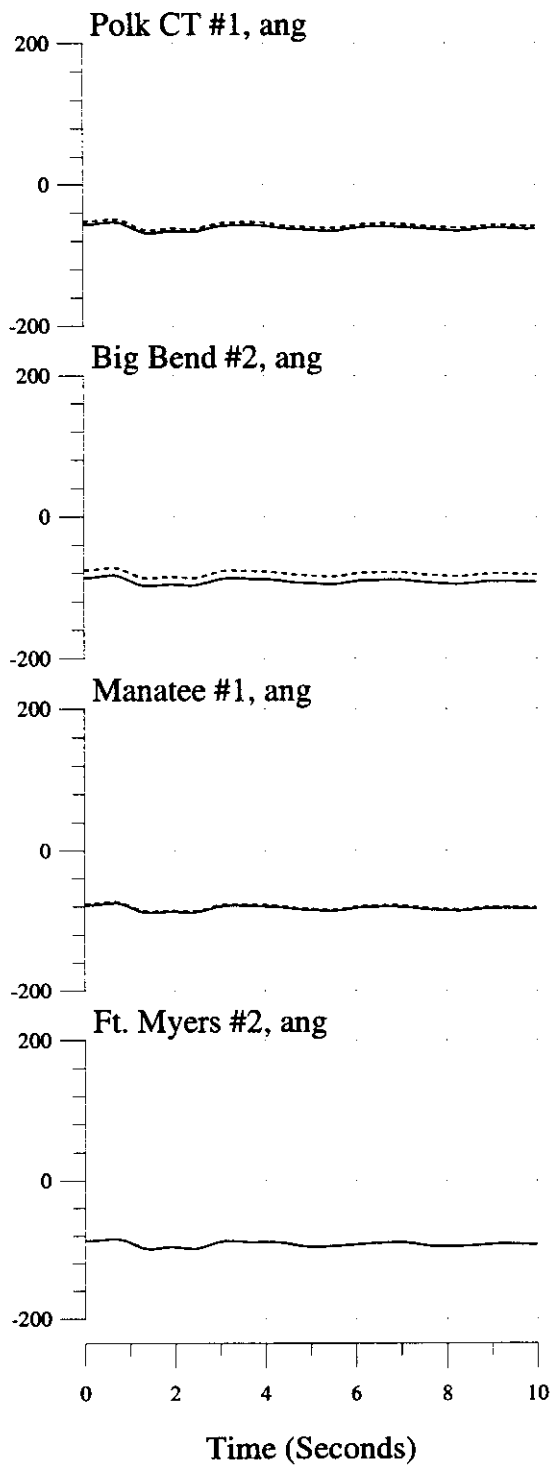
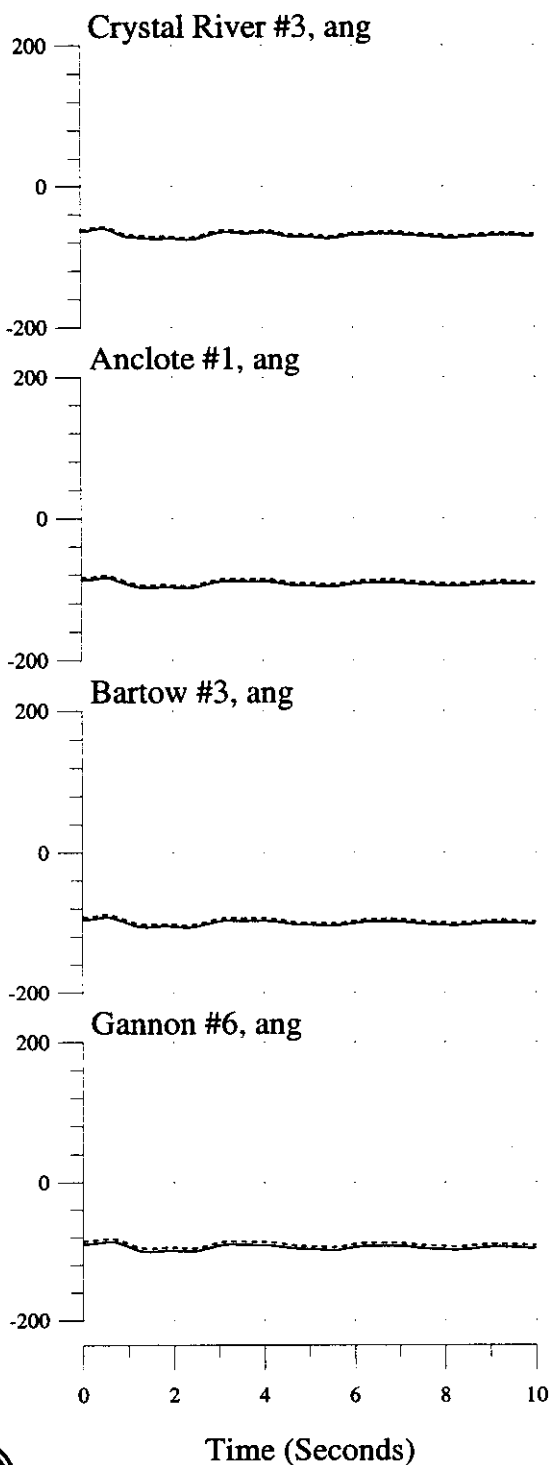
Time (Seconds)

Time (Seconds)



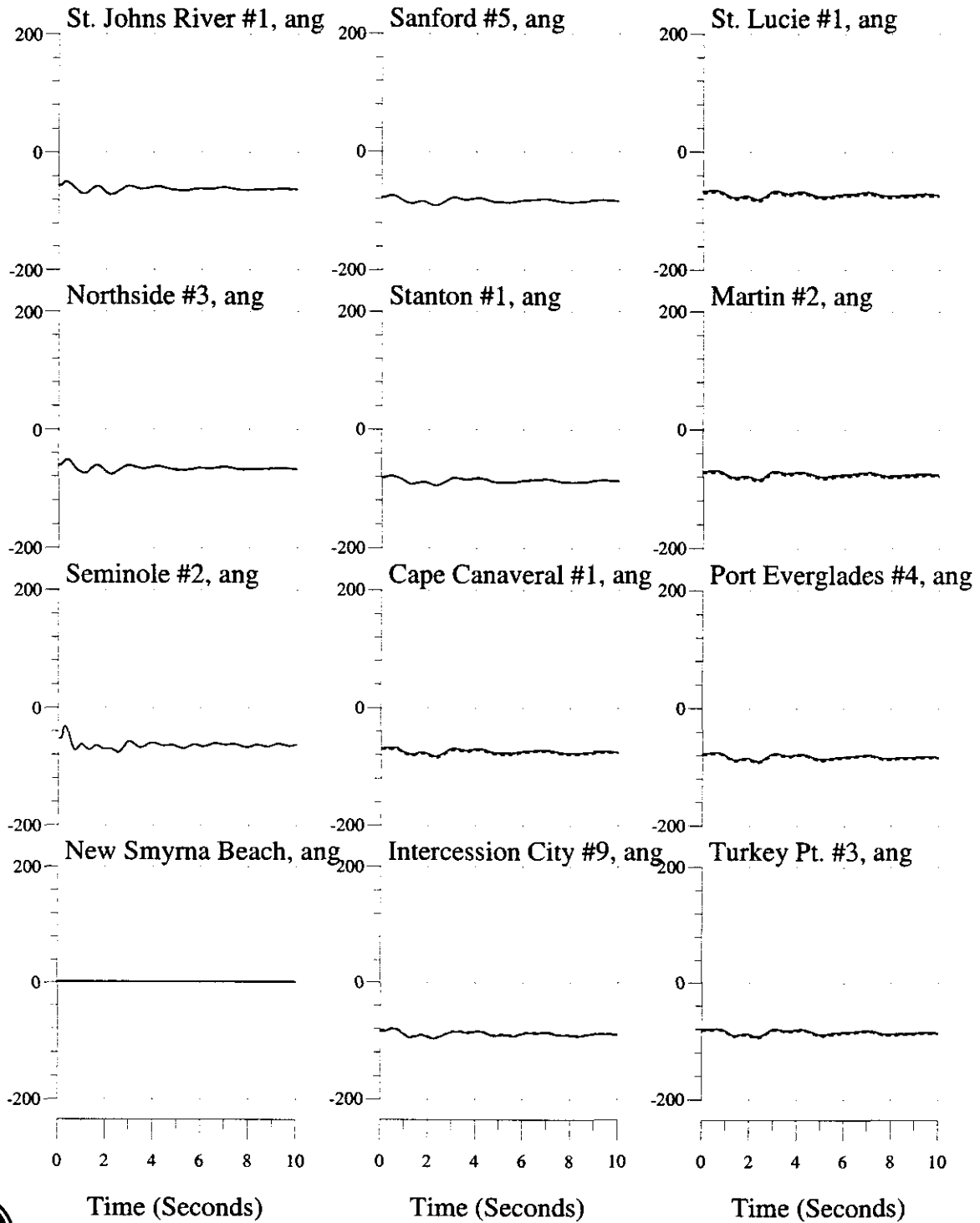
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



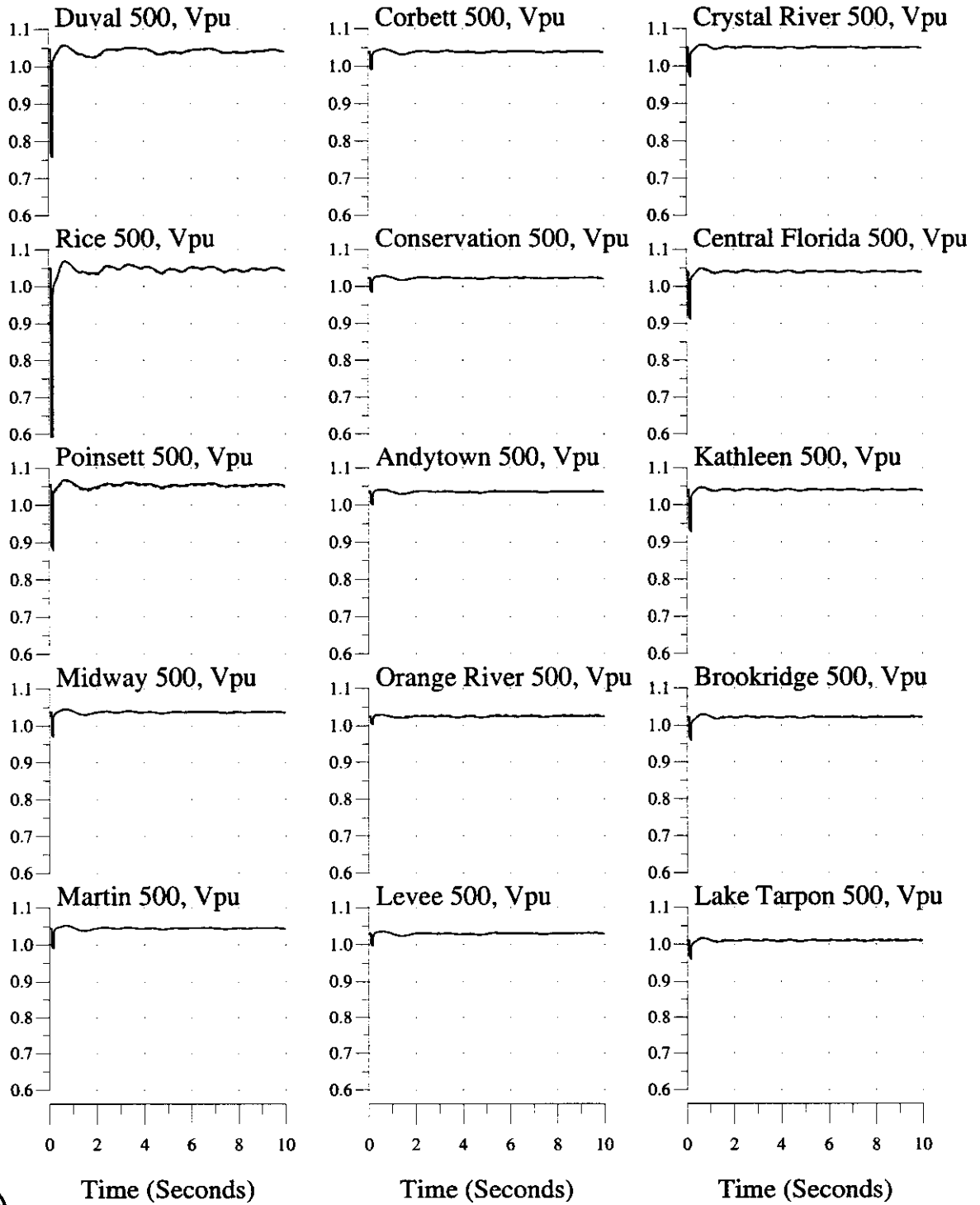
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

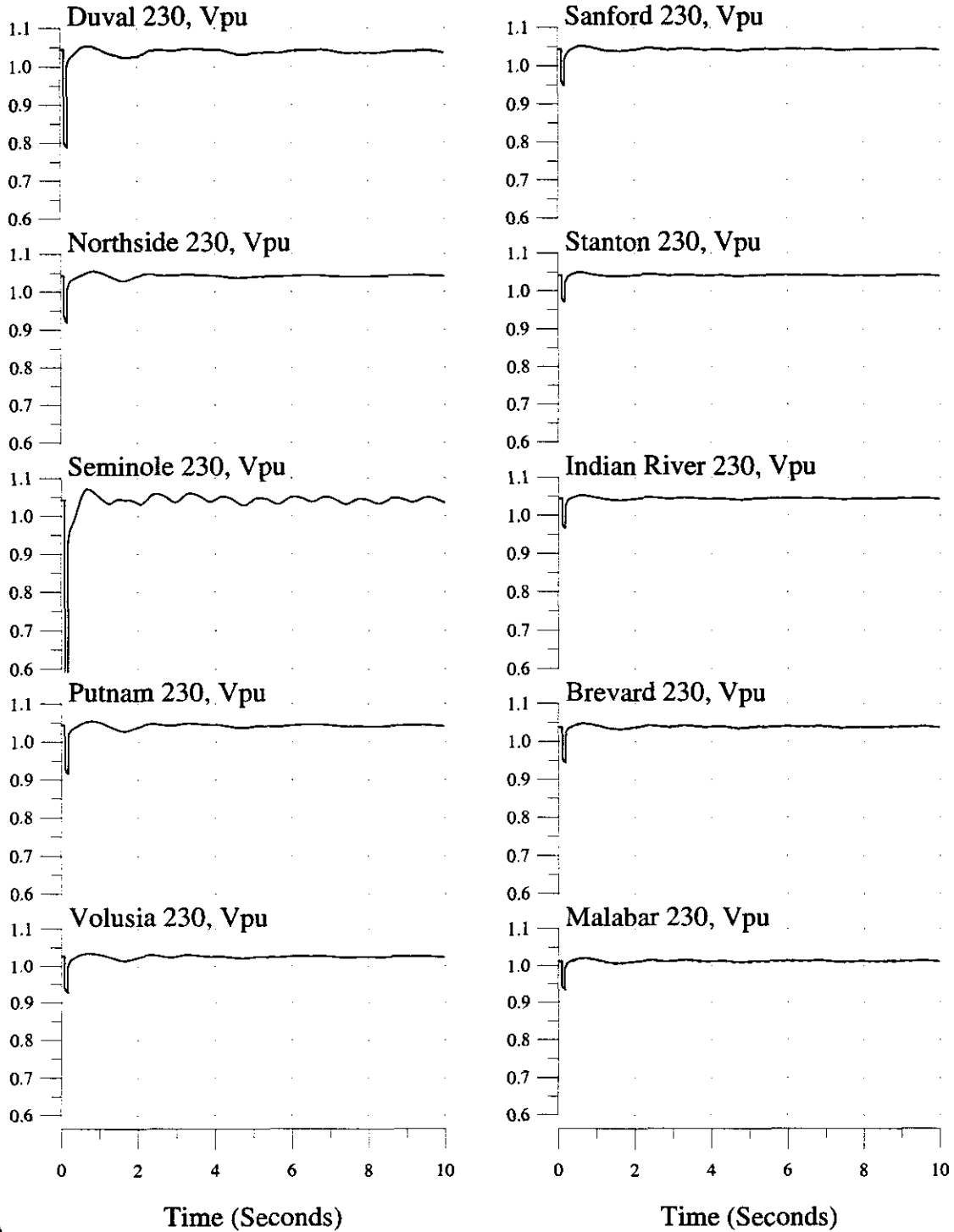
Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without





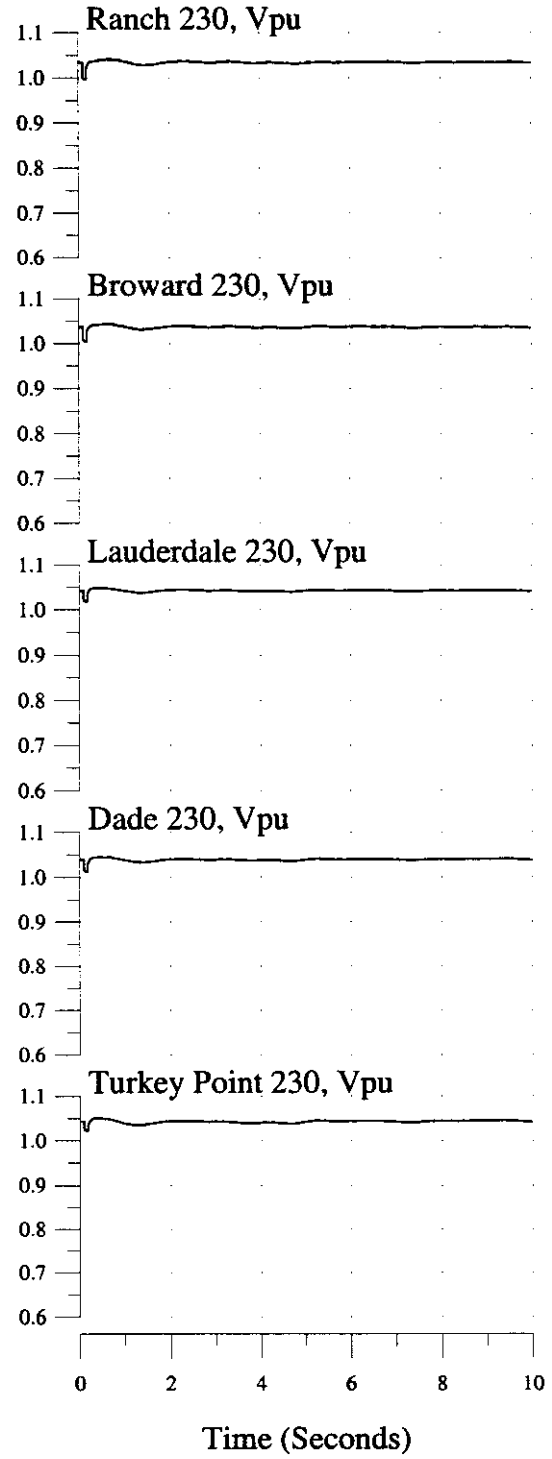
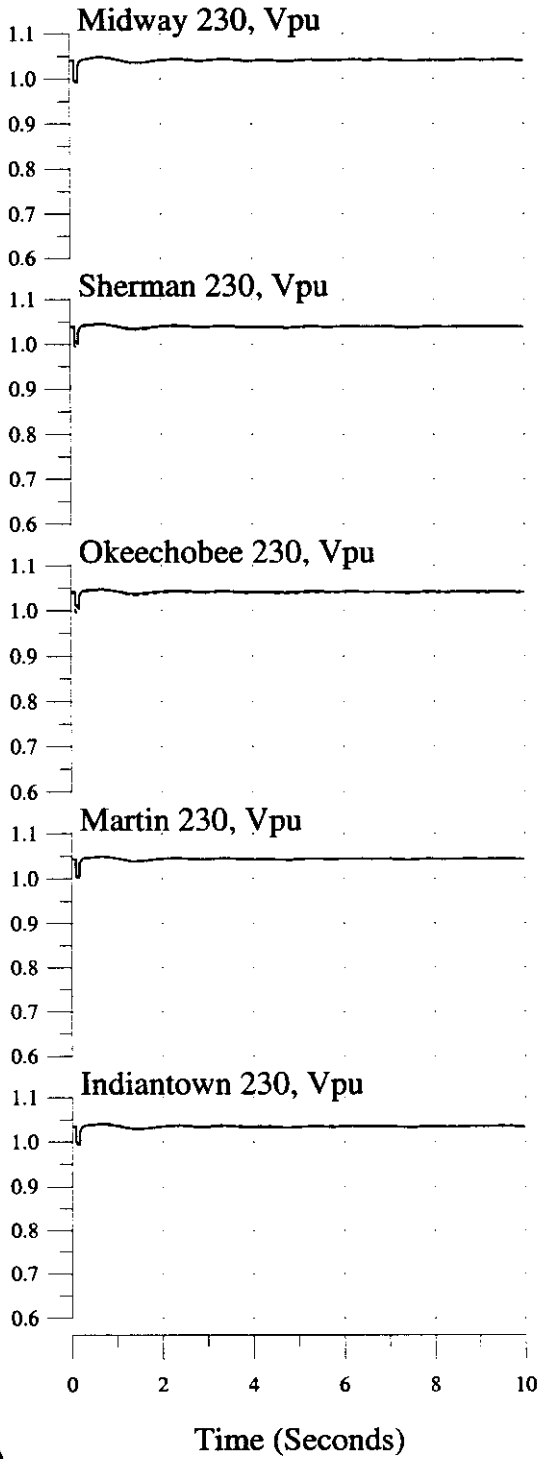
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



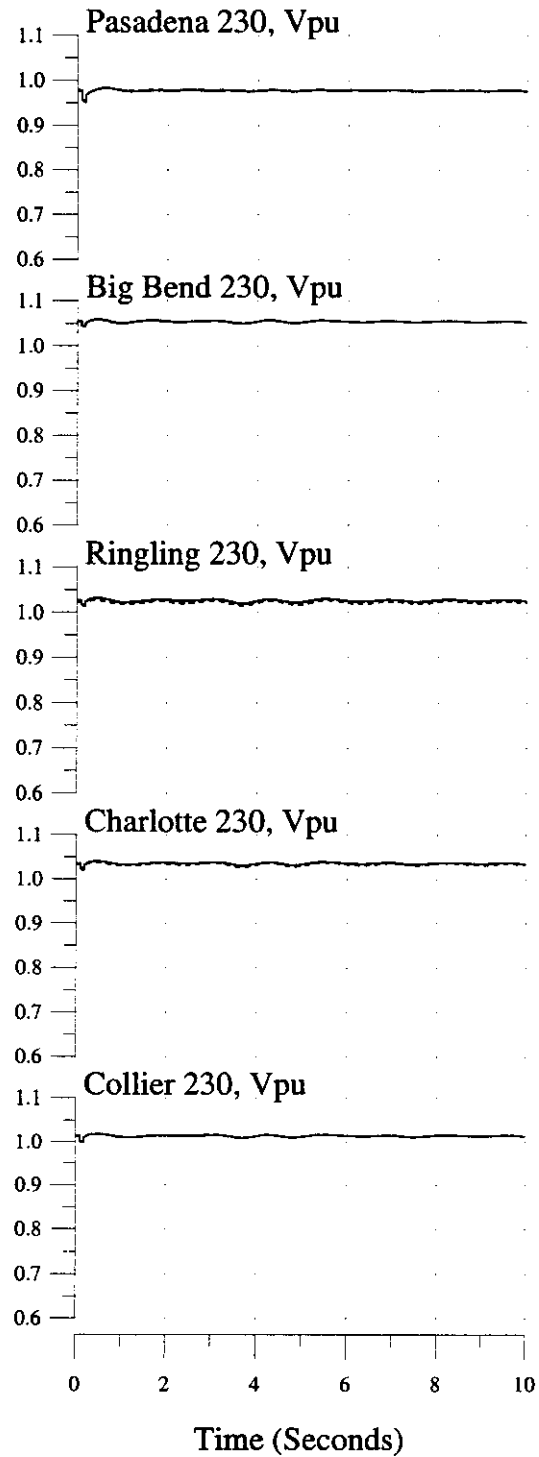
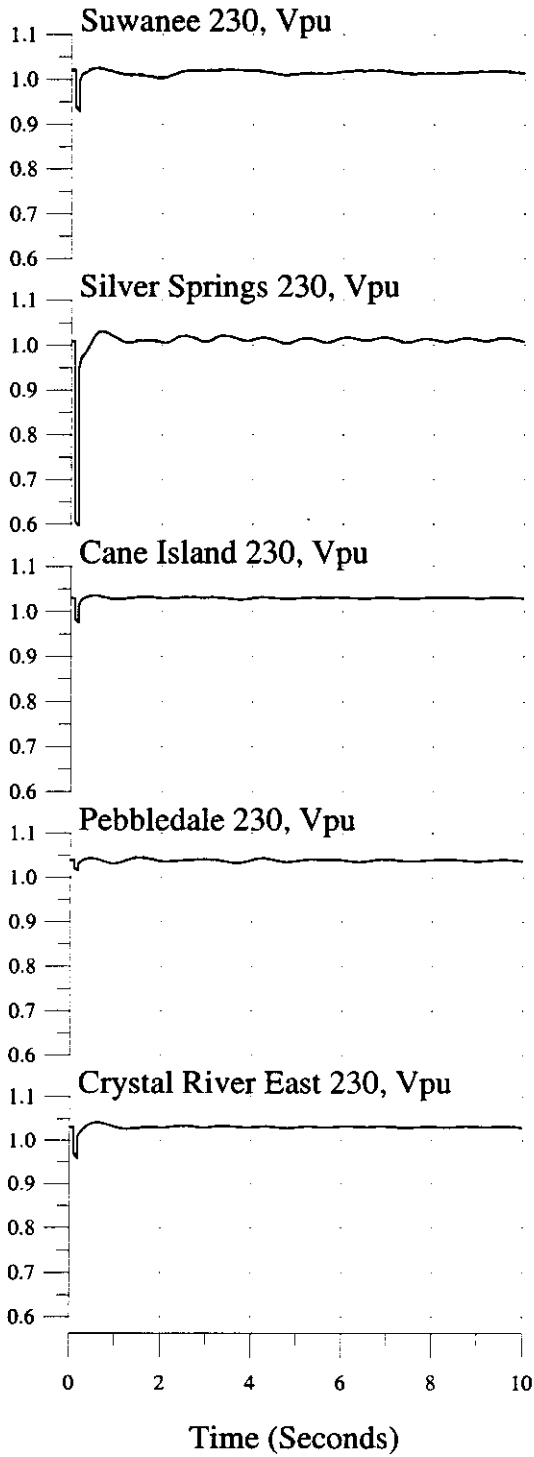
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without



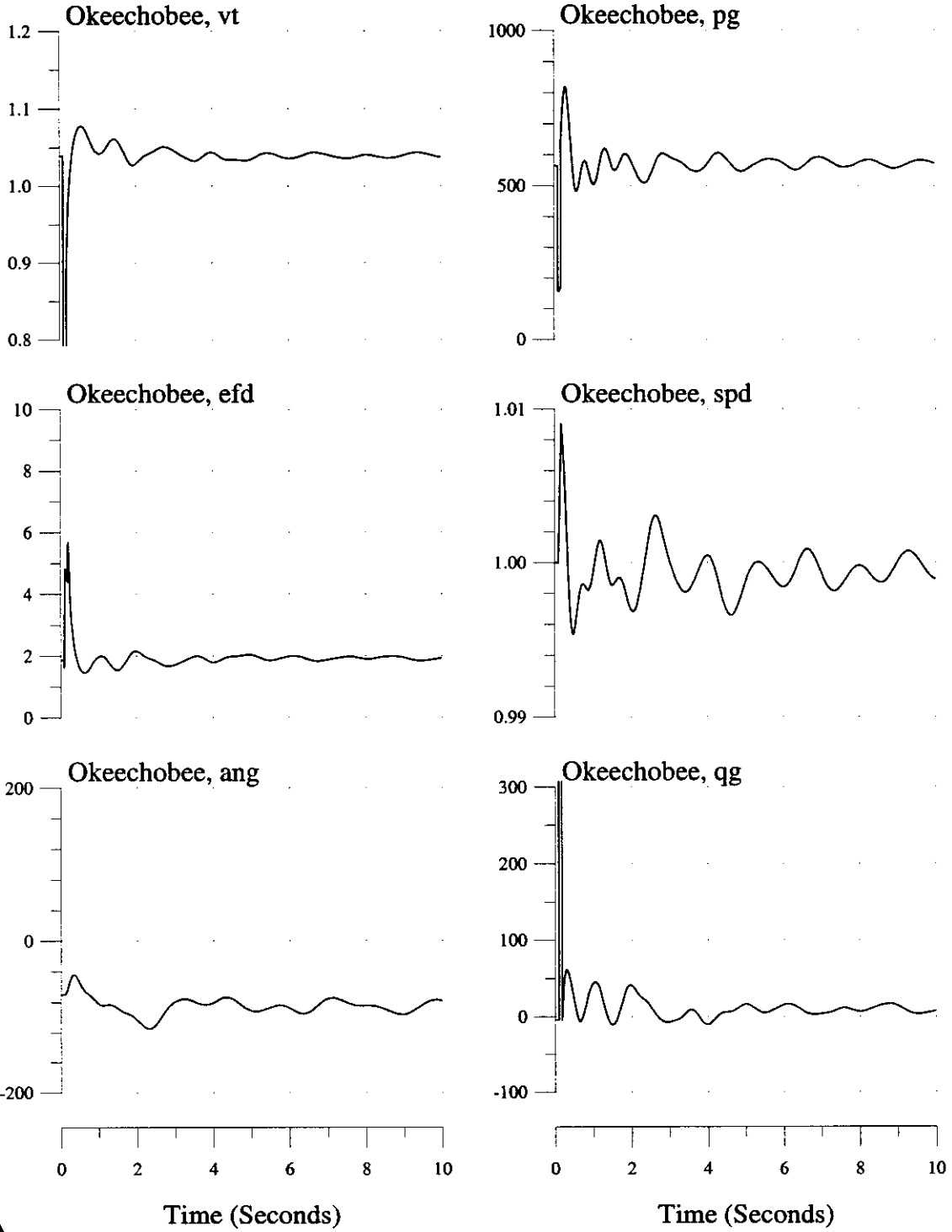
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without



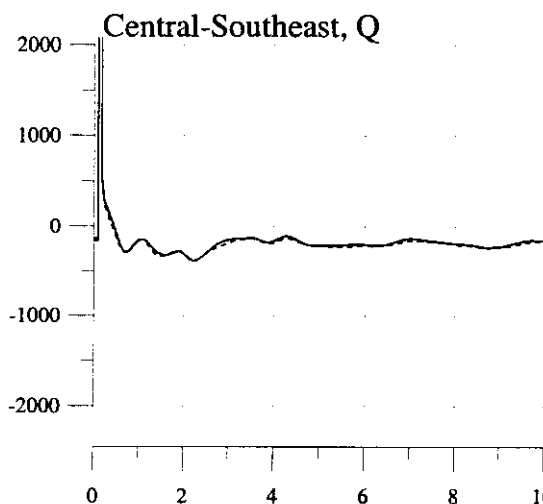
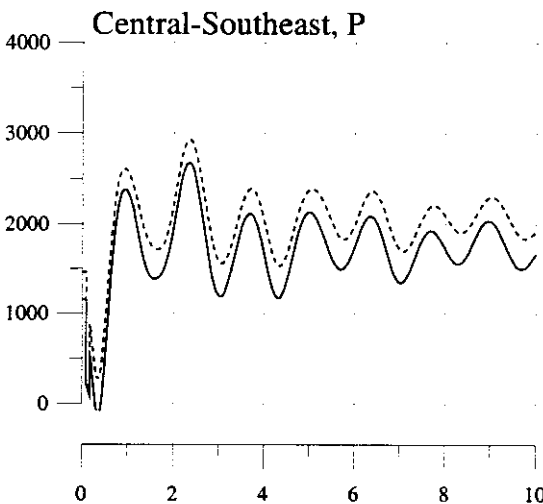
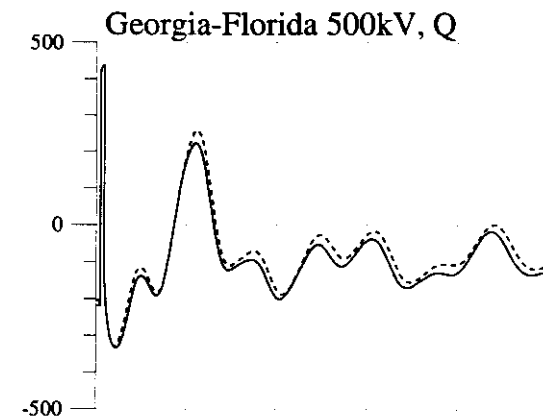
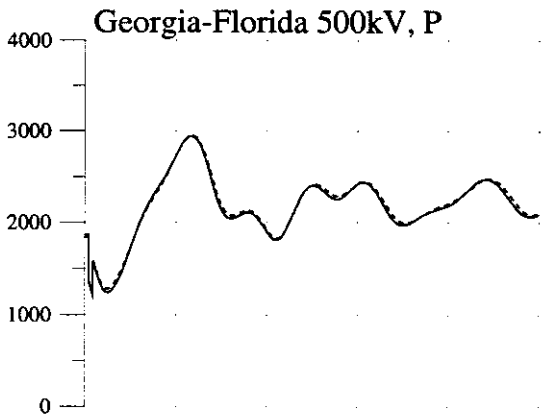
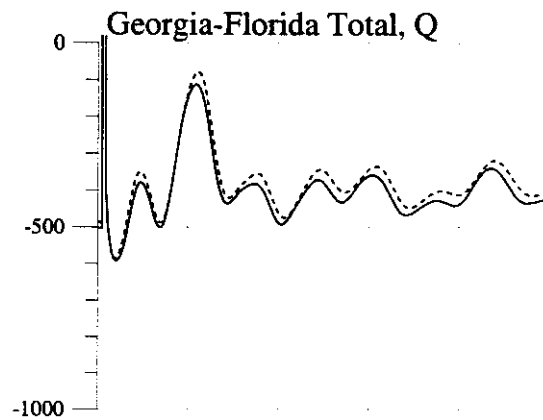
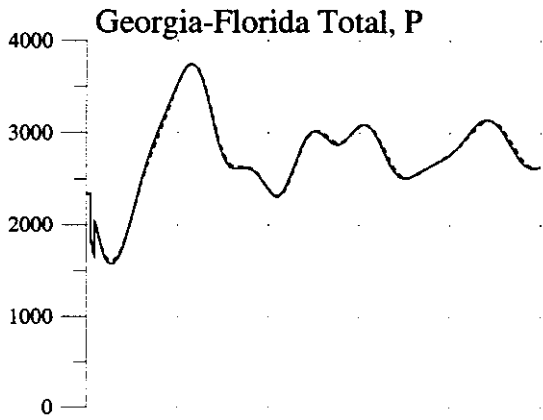
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



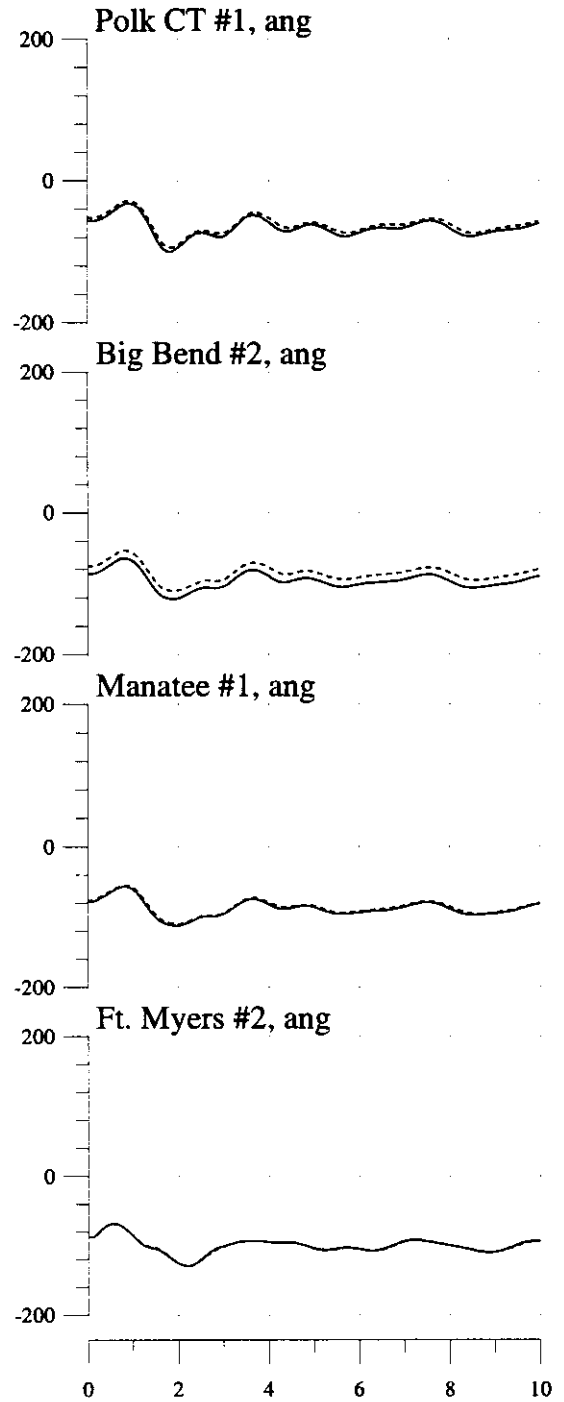
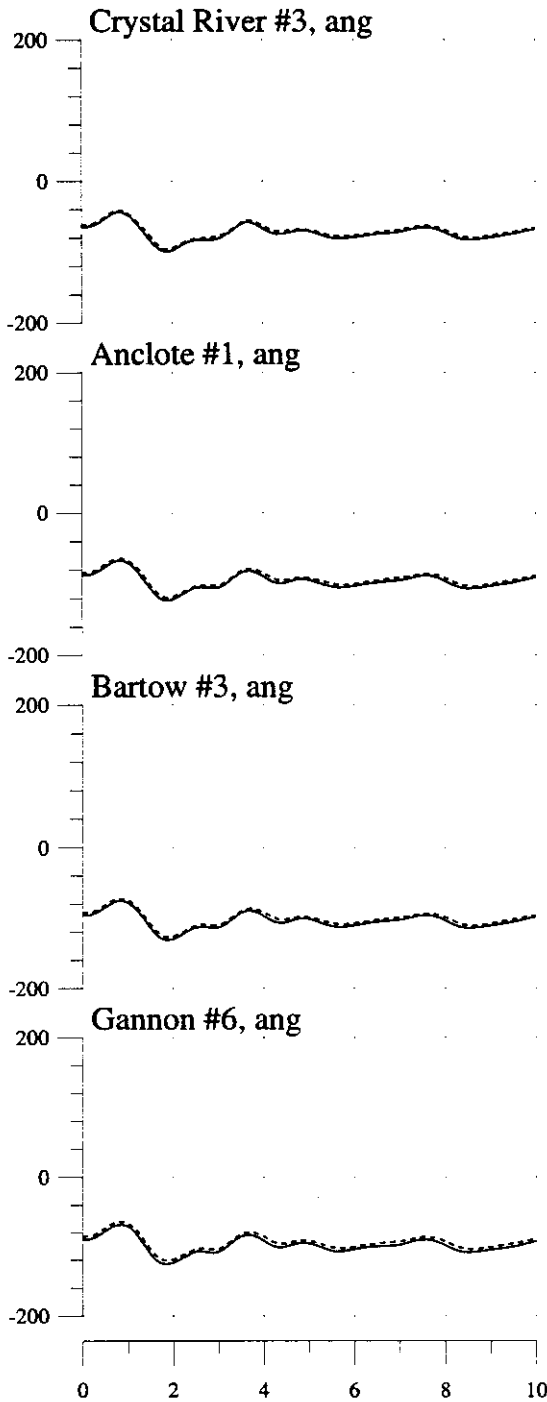
Time (Seconds)

Time (Seconds)



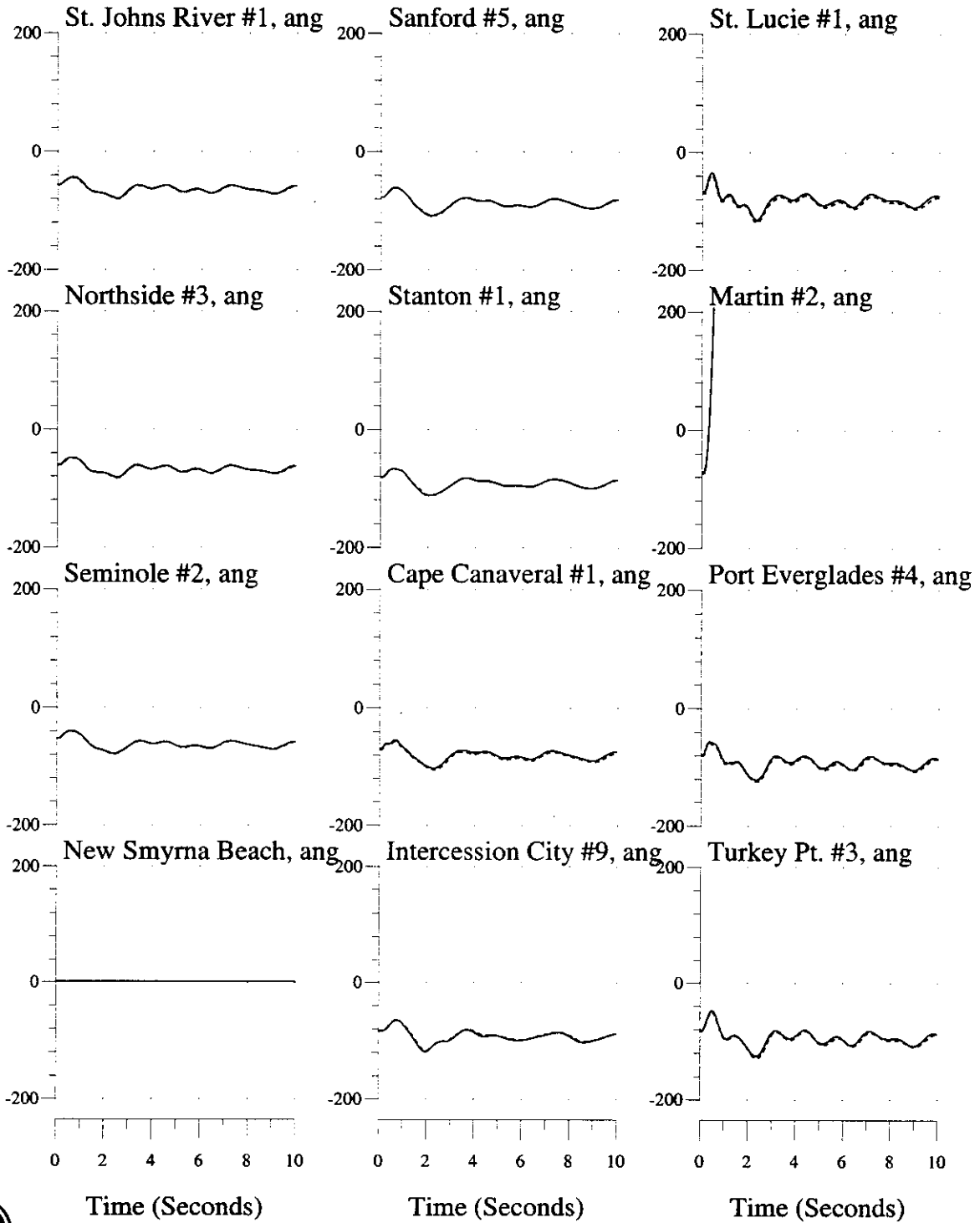
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without



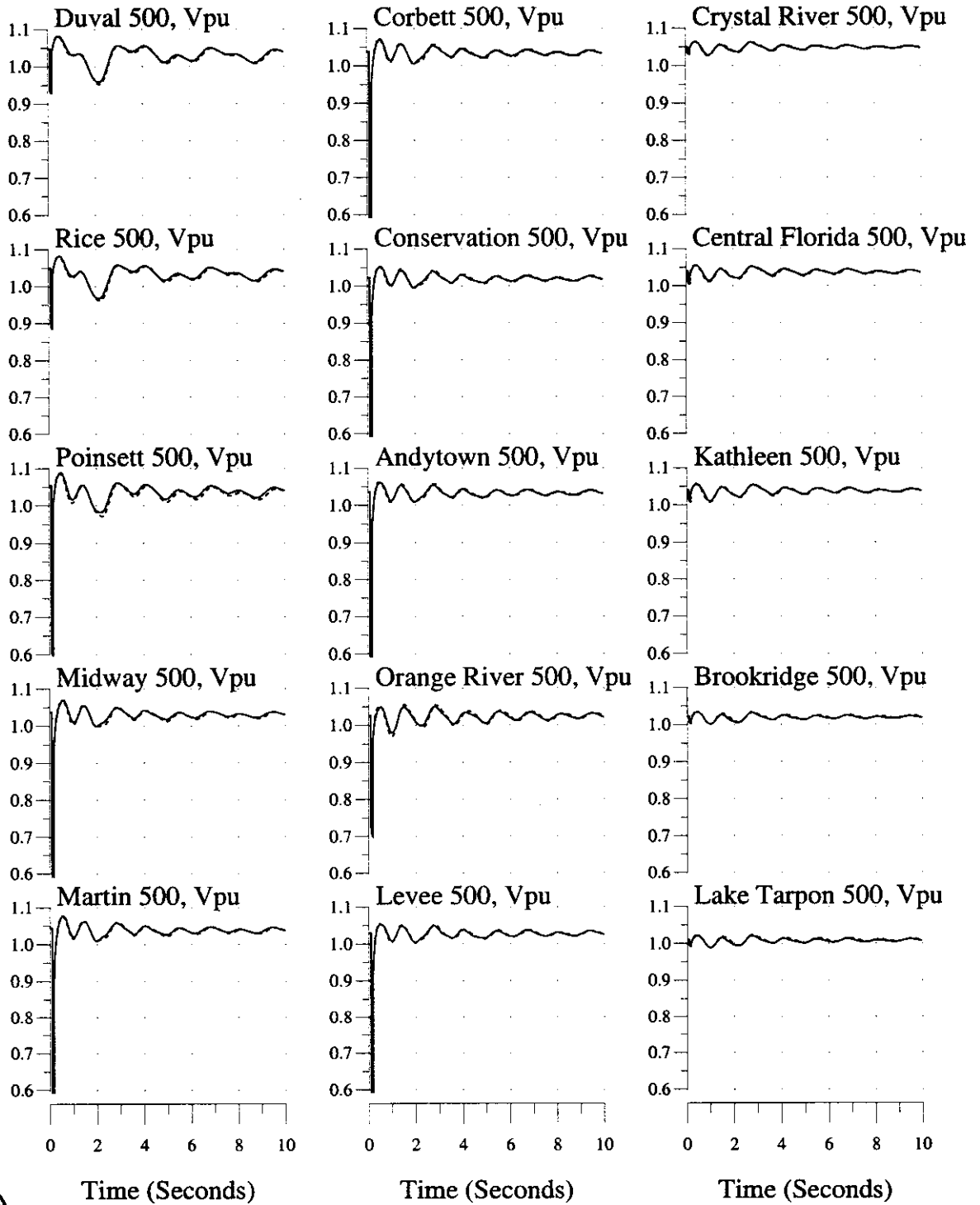
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
 2003 Winter System

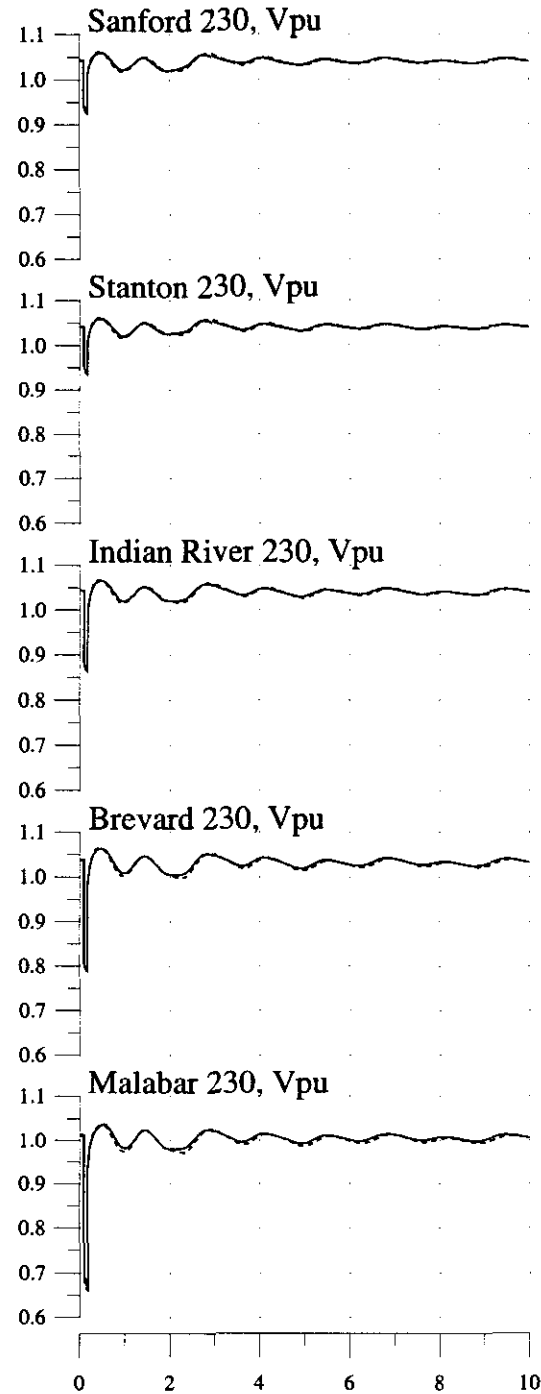
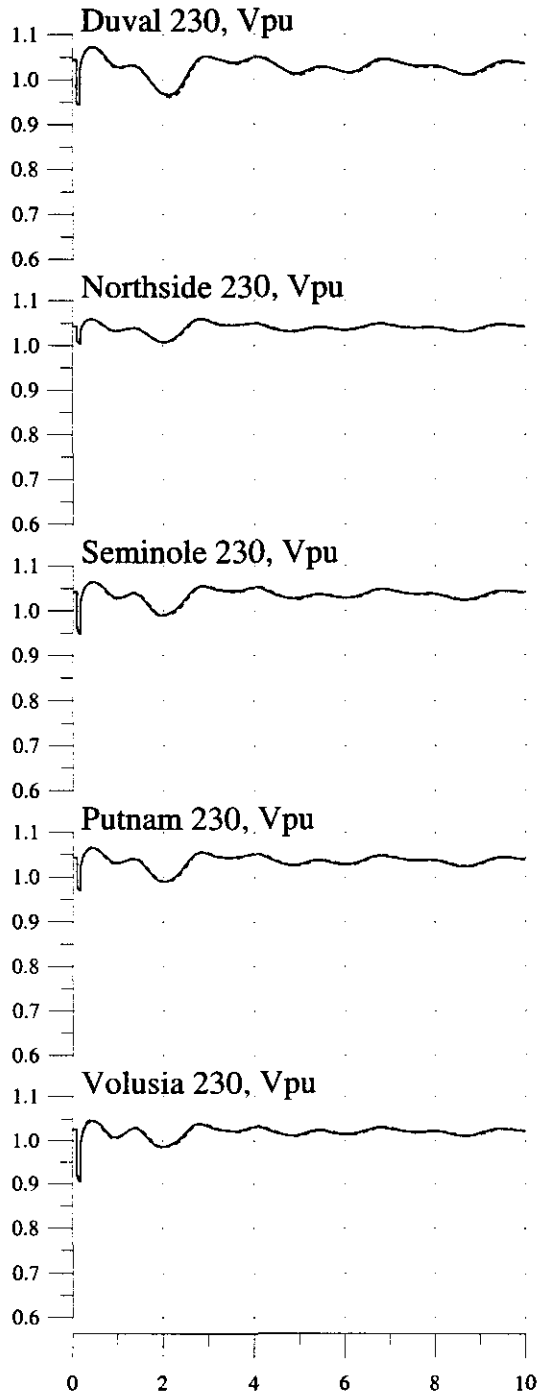
Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without





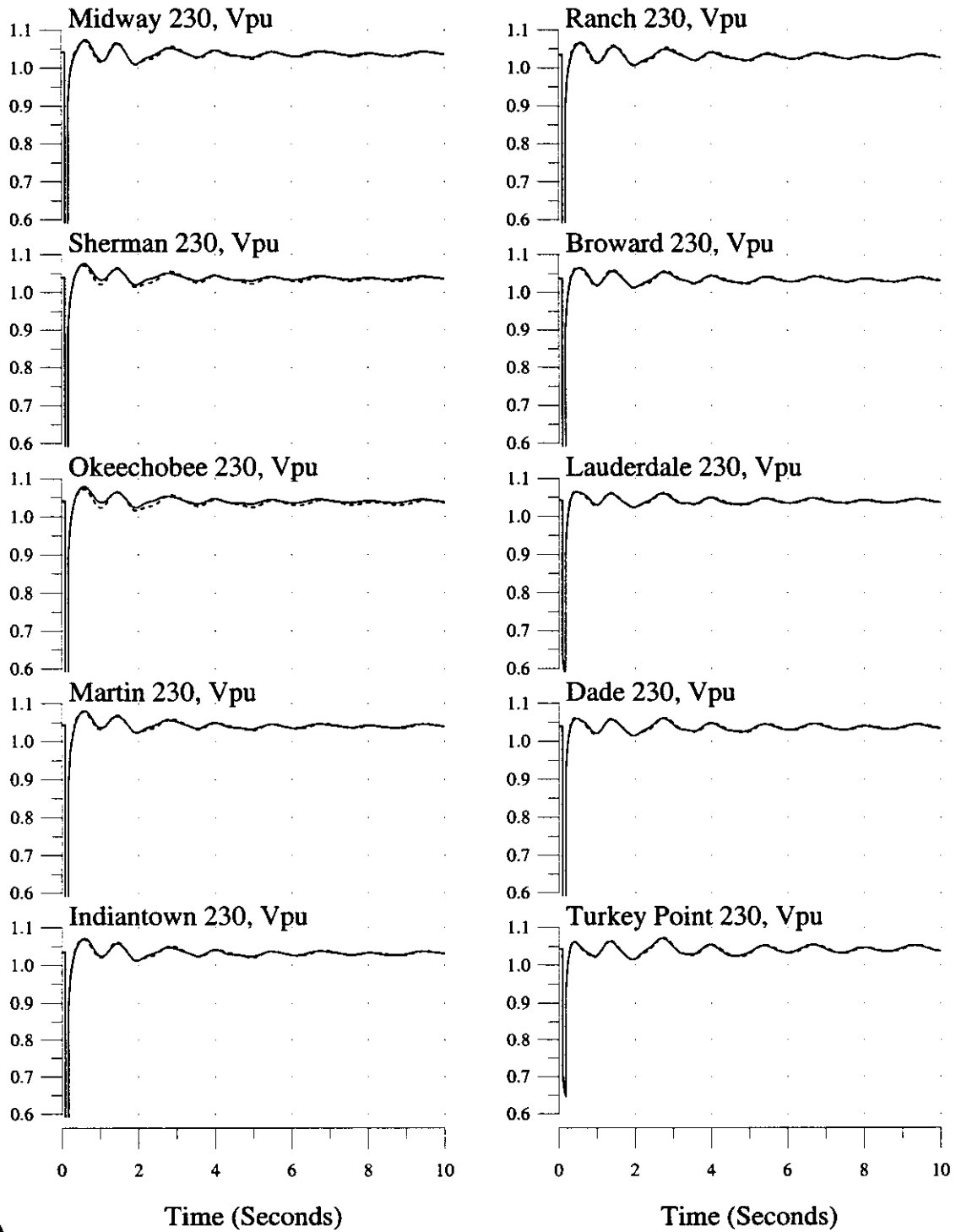
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



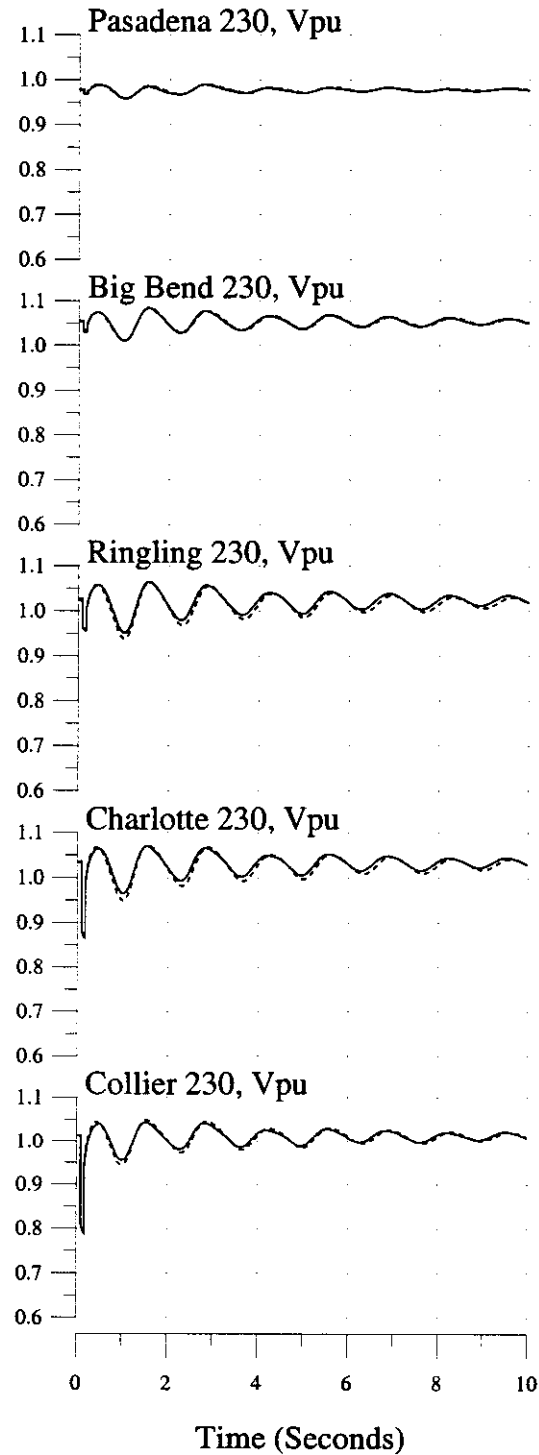
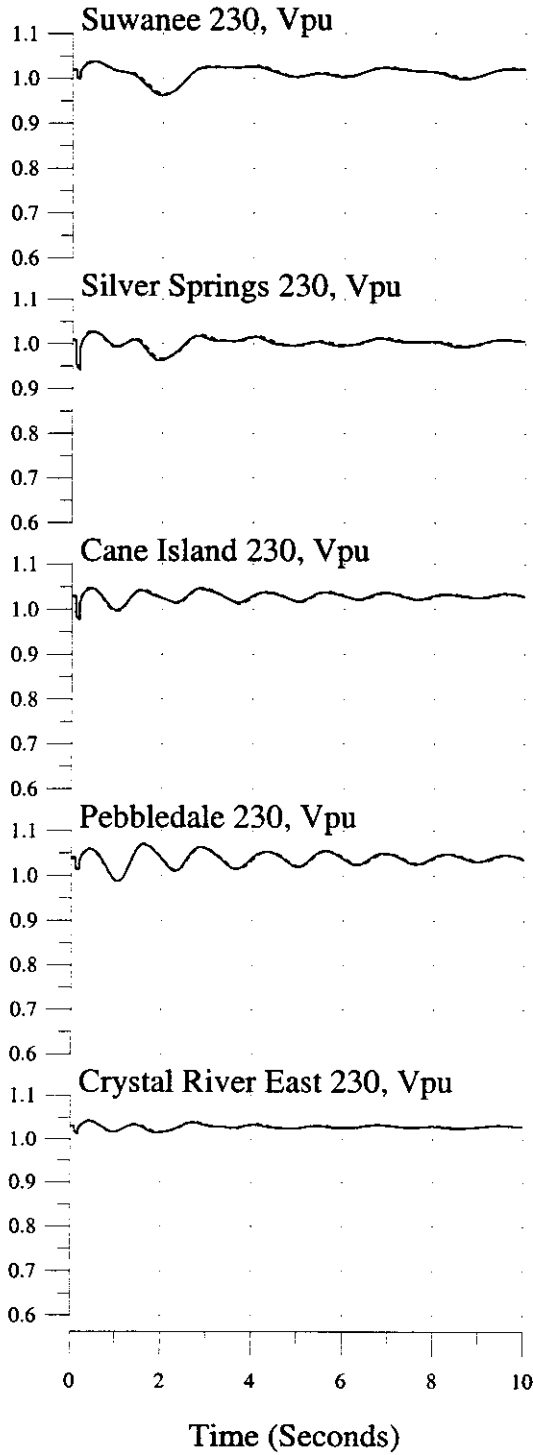
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



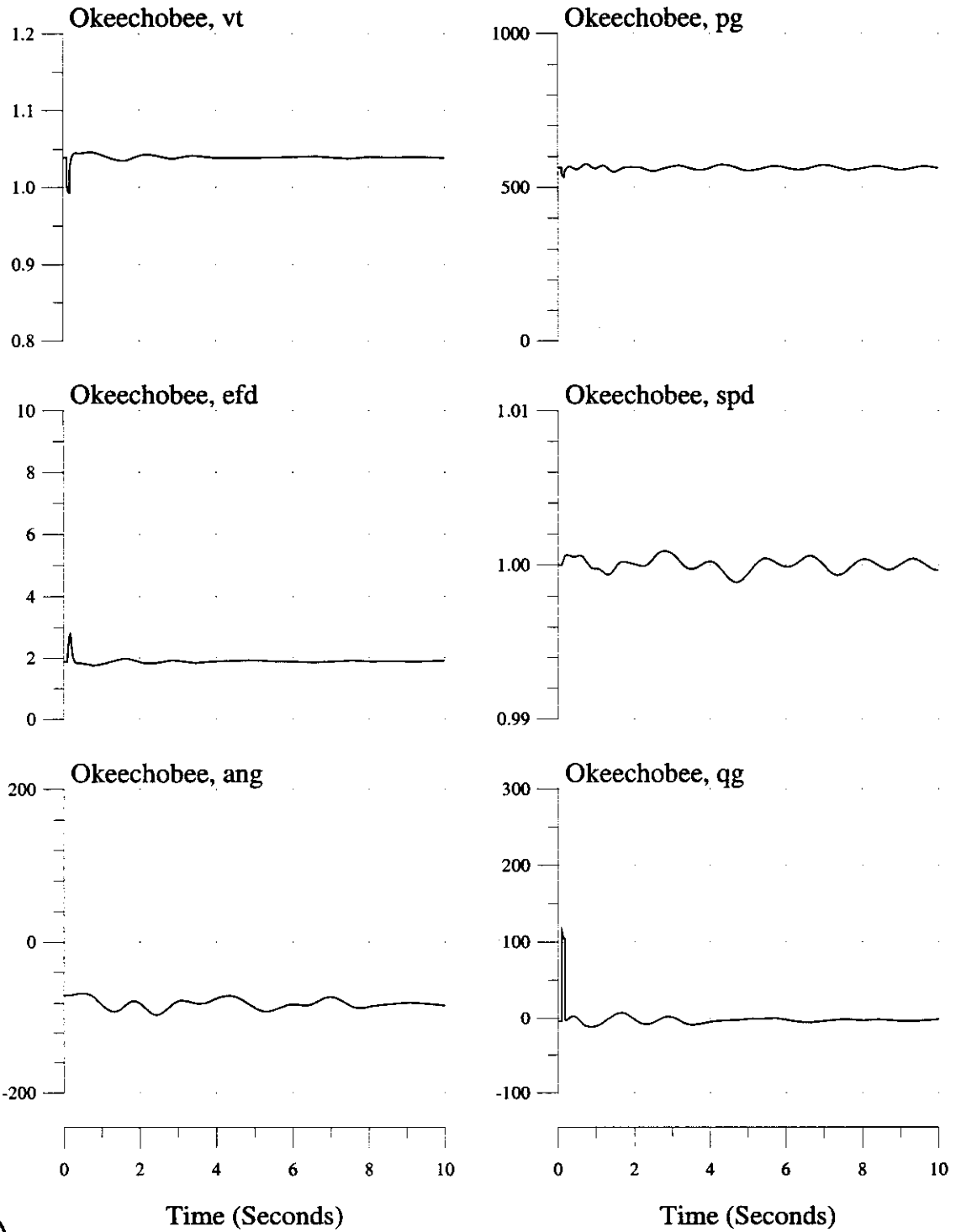
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



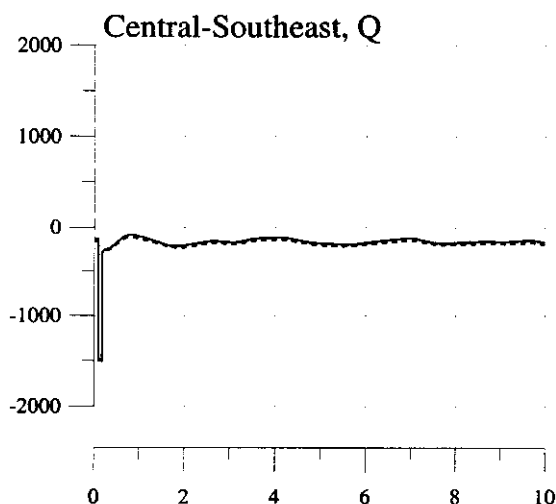
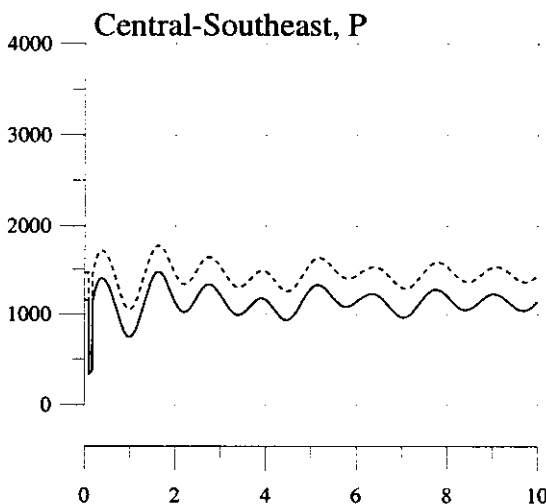
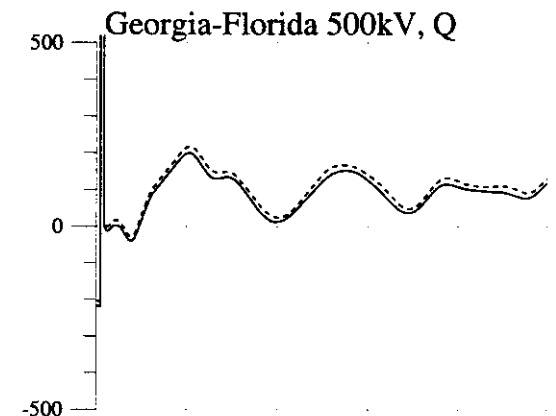
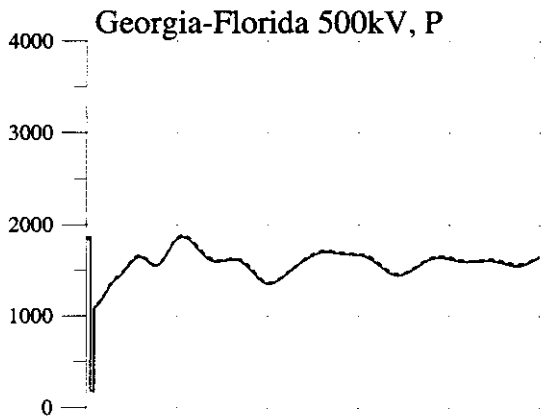
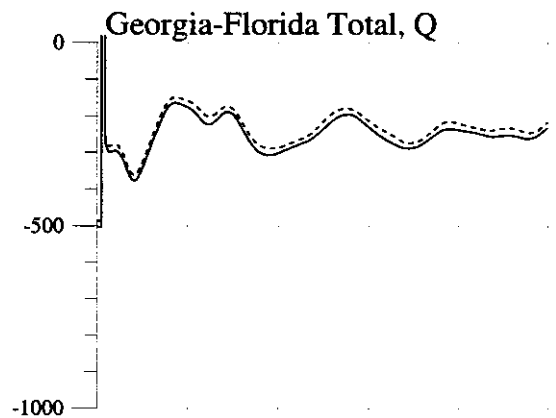
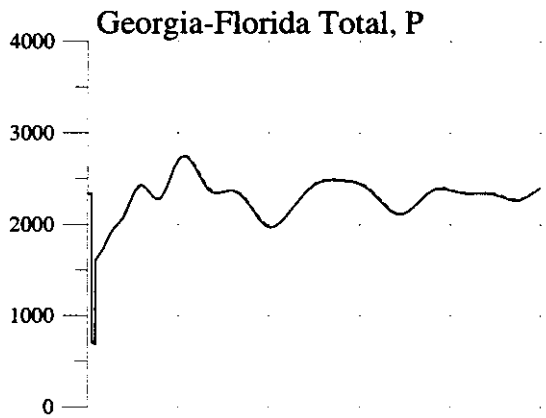
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



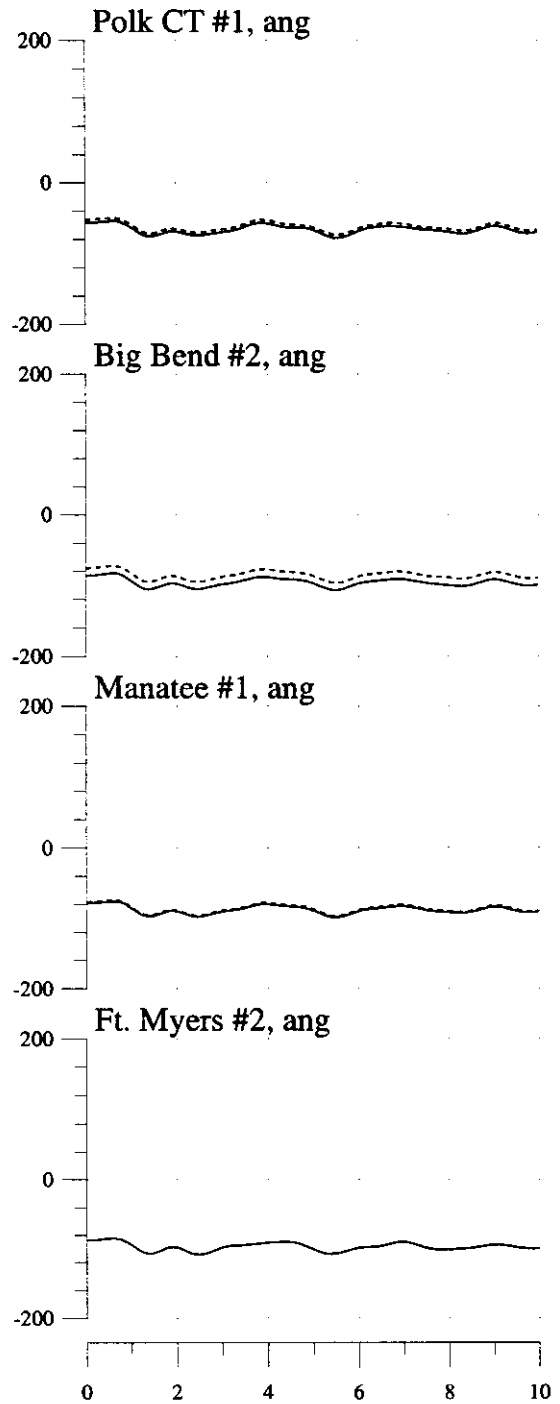
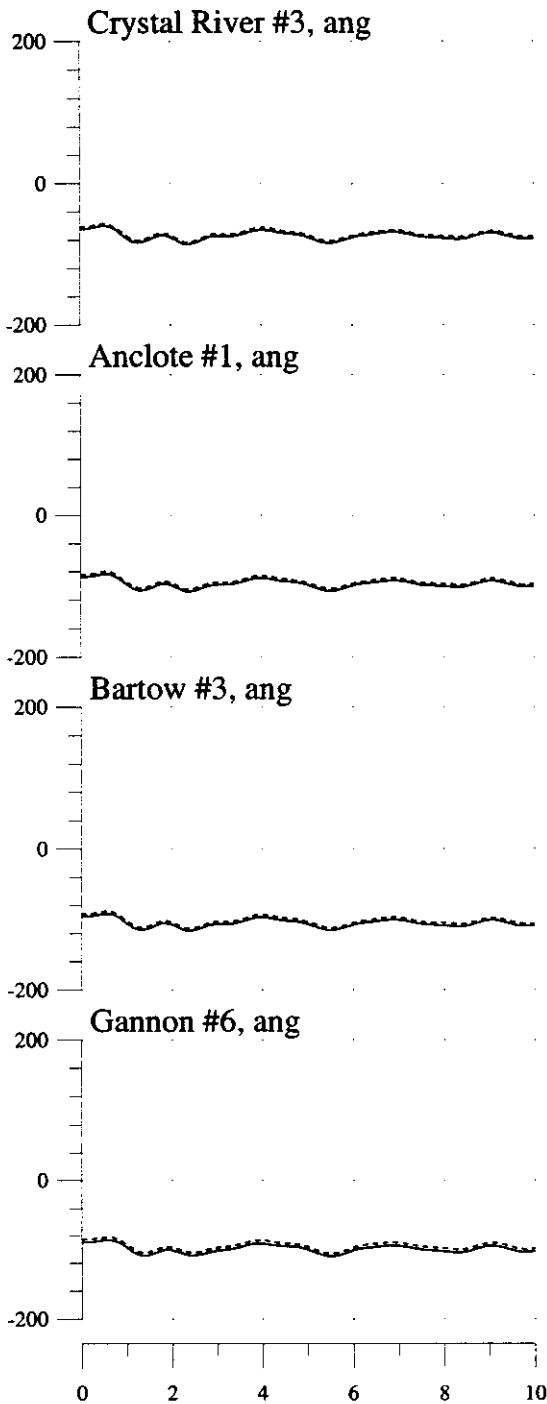
Time (Seconds)

Time (Seconds)



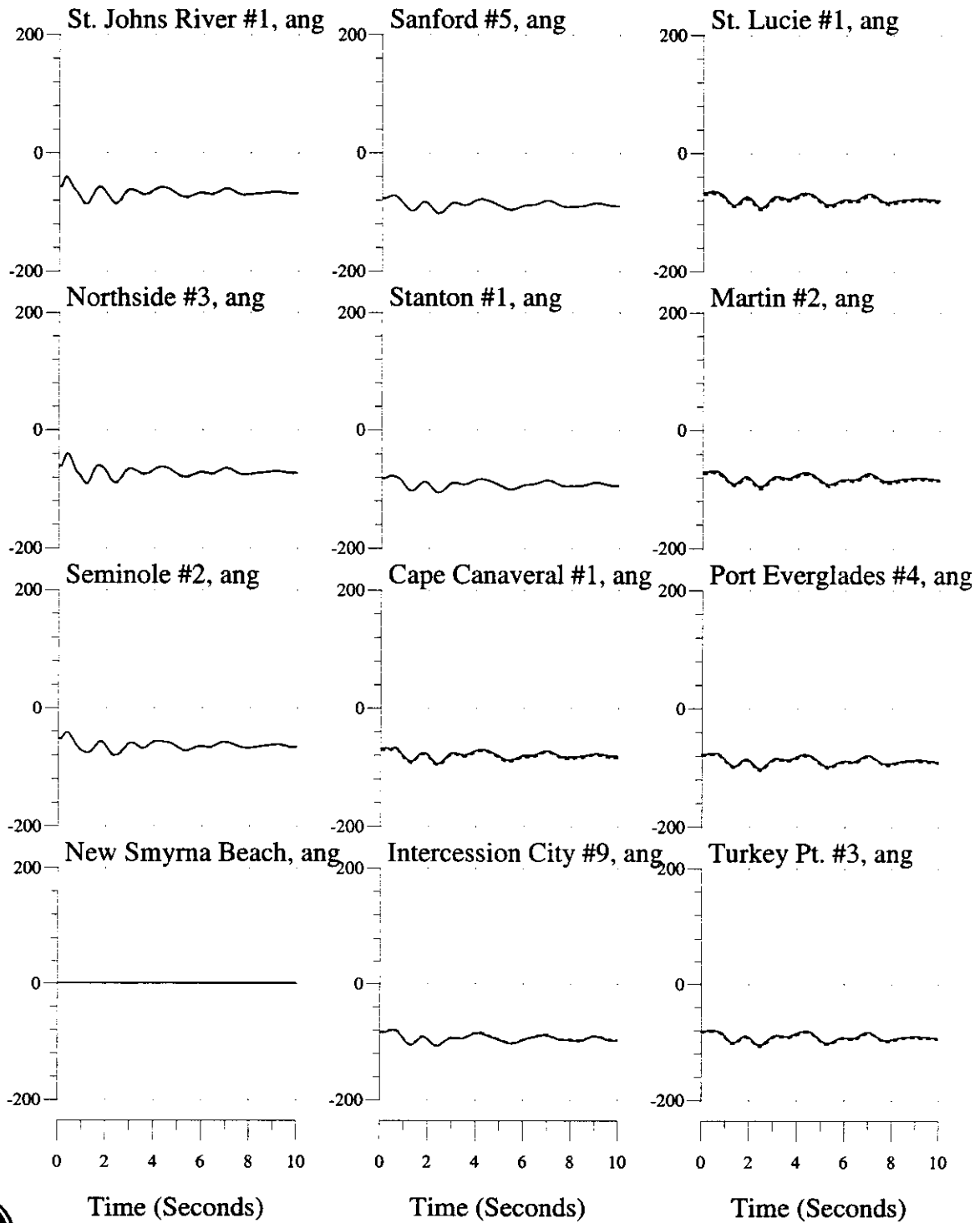
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



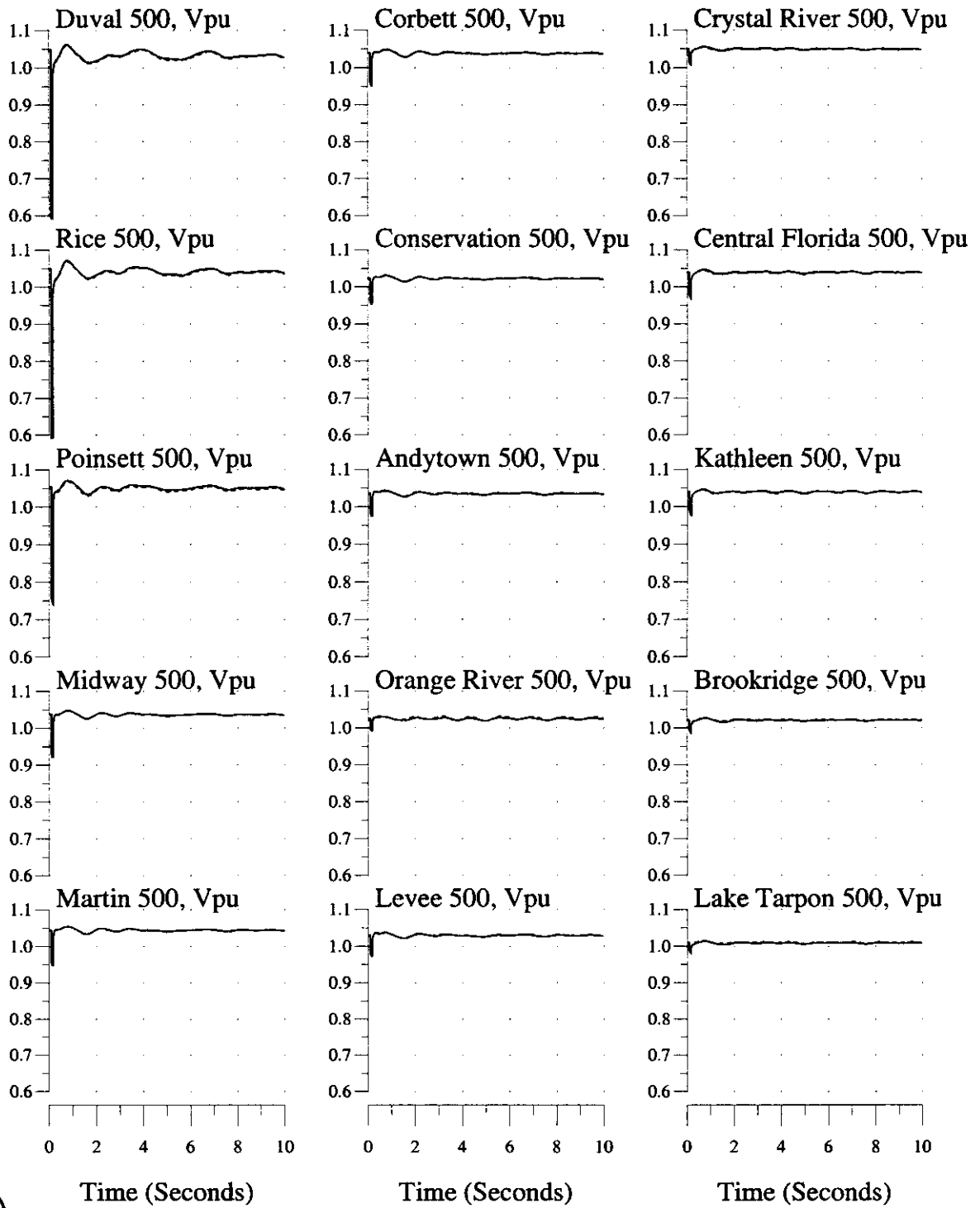
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



### 3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line 2003 Winter System

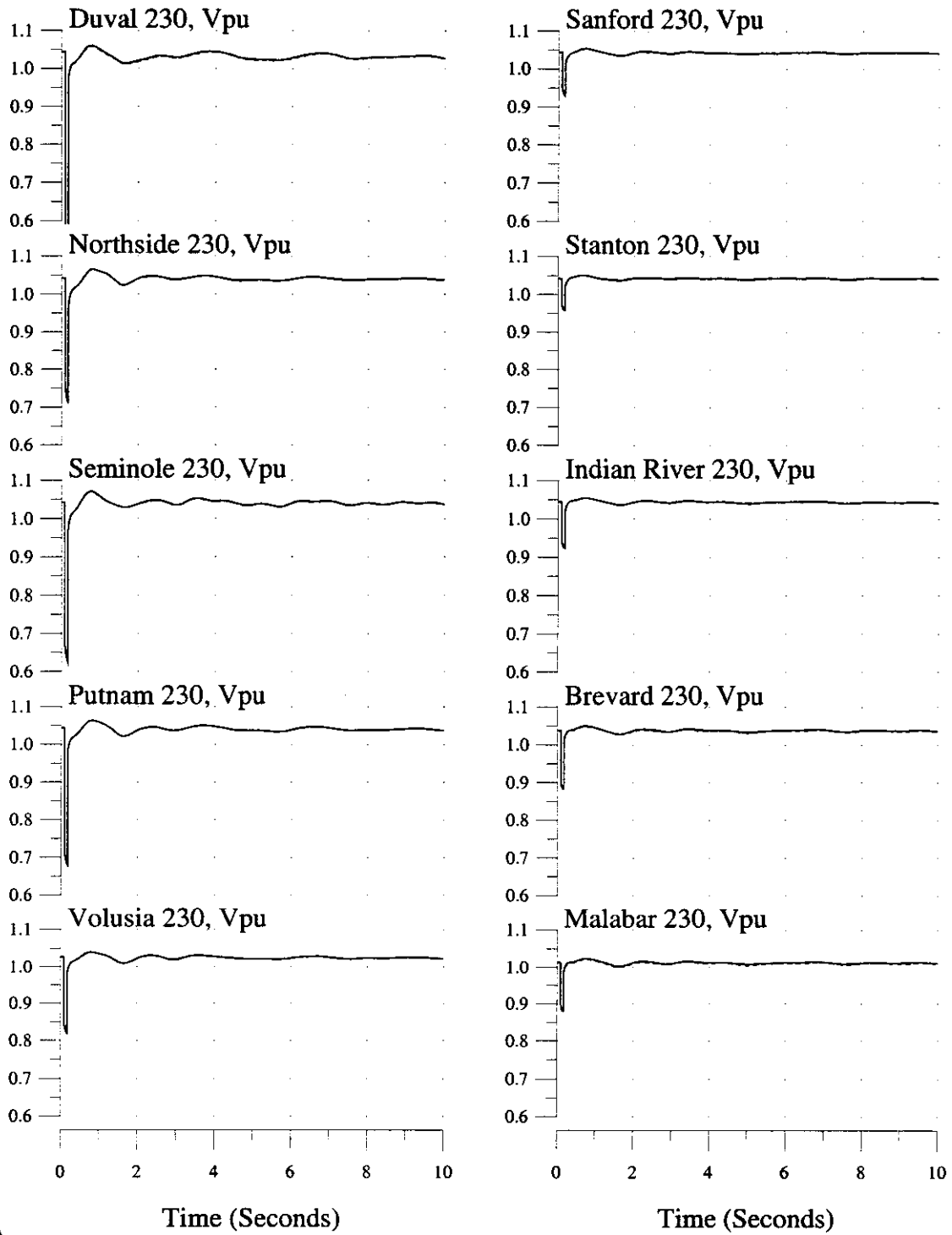
Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without





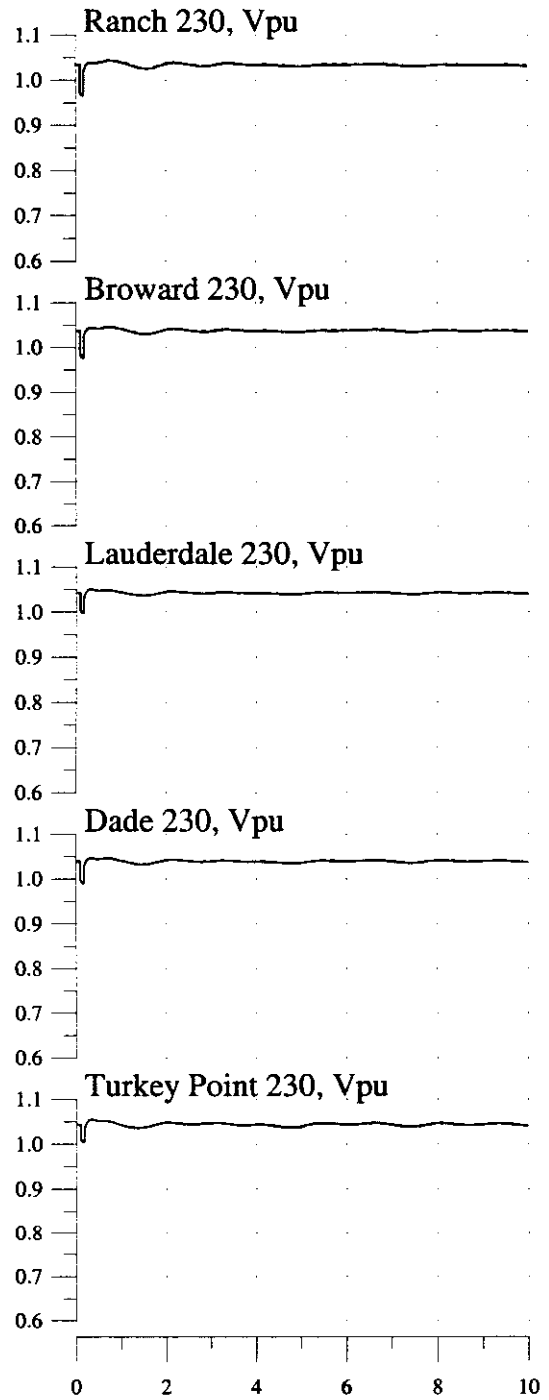
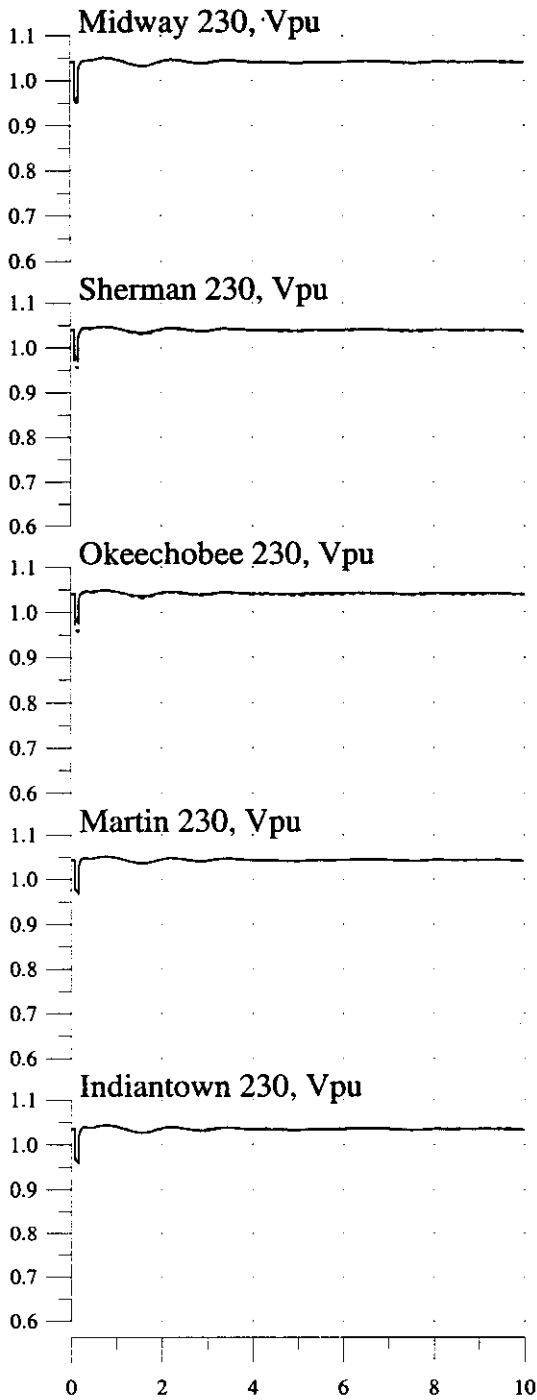
# 3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line 2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



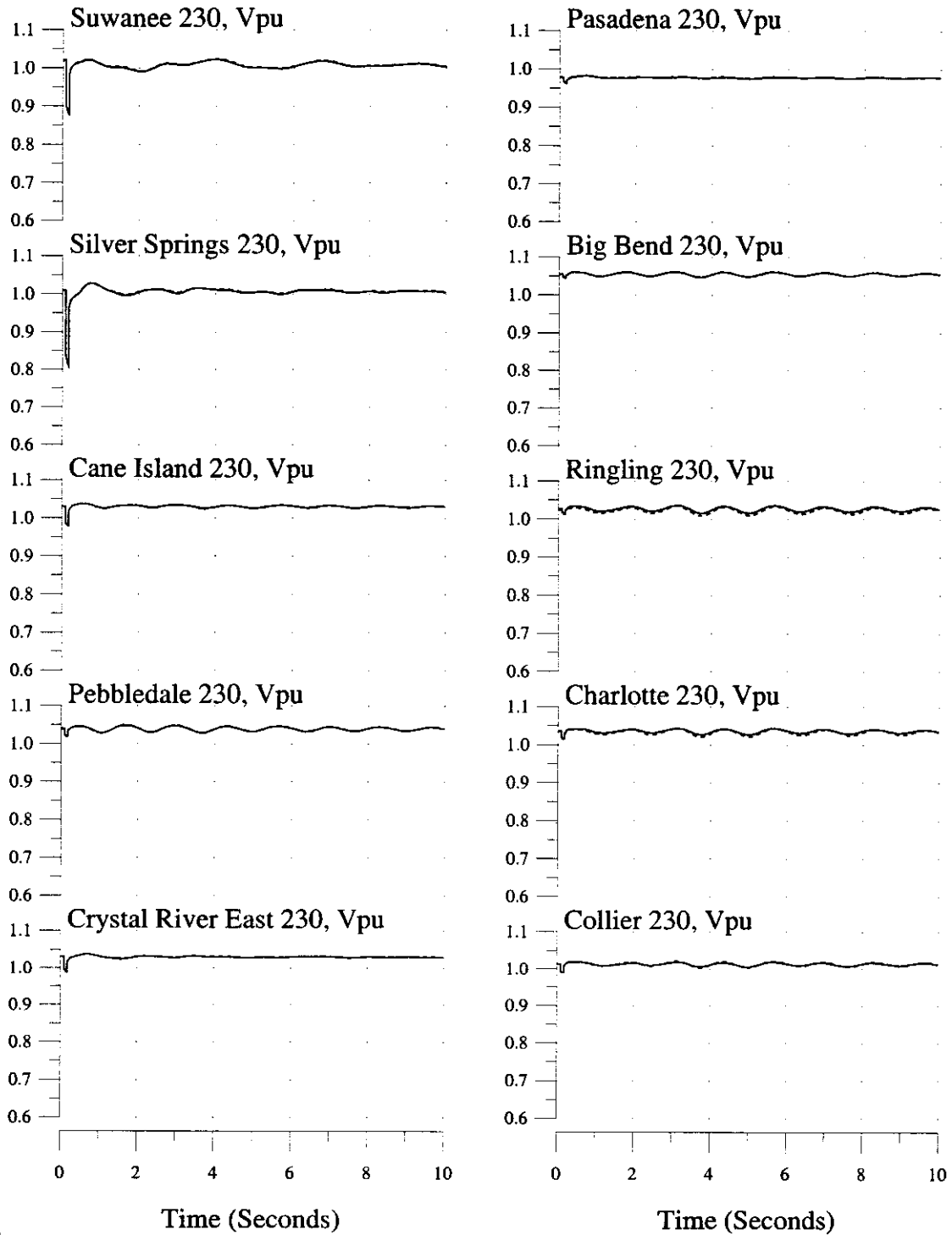
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



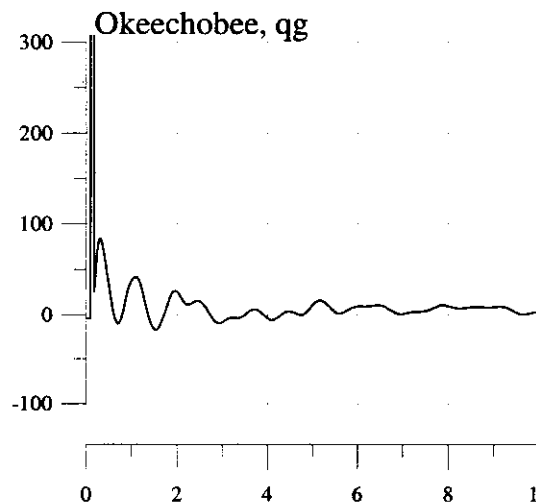
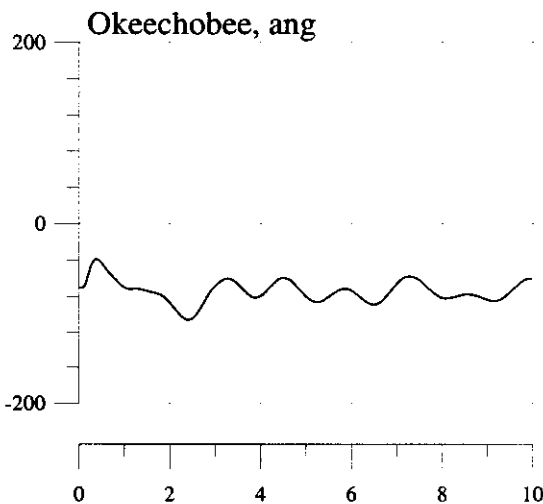
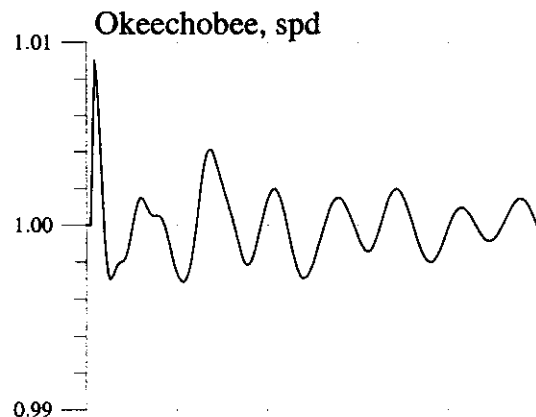
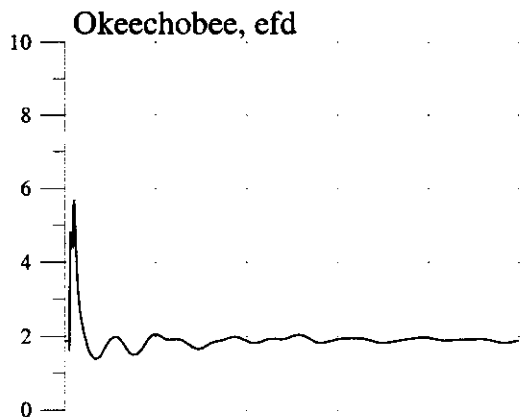
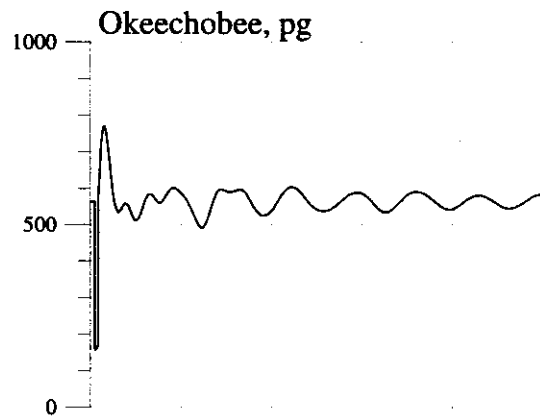
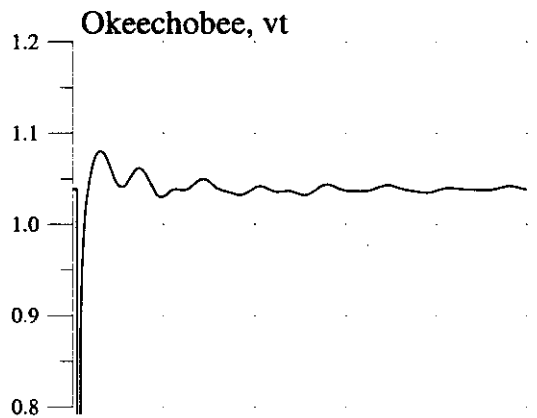
### 3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line 2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



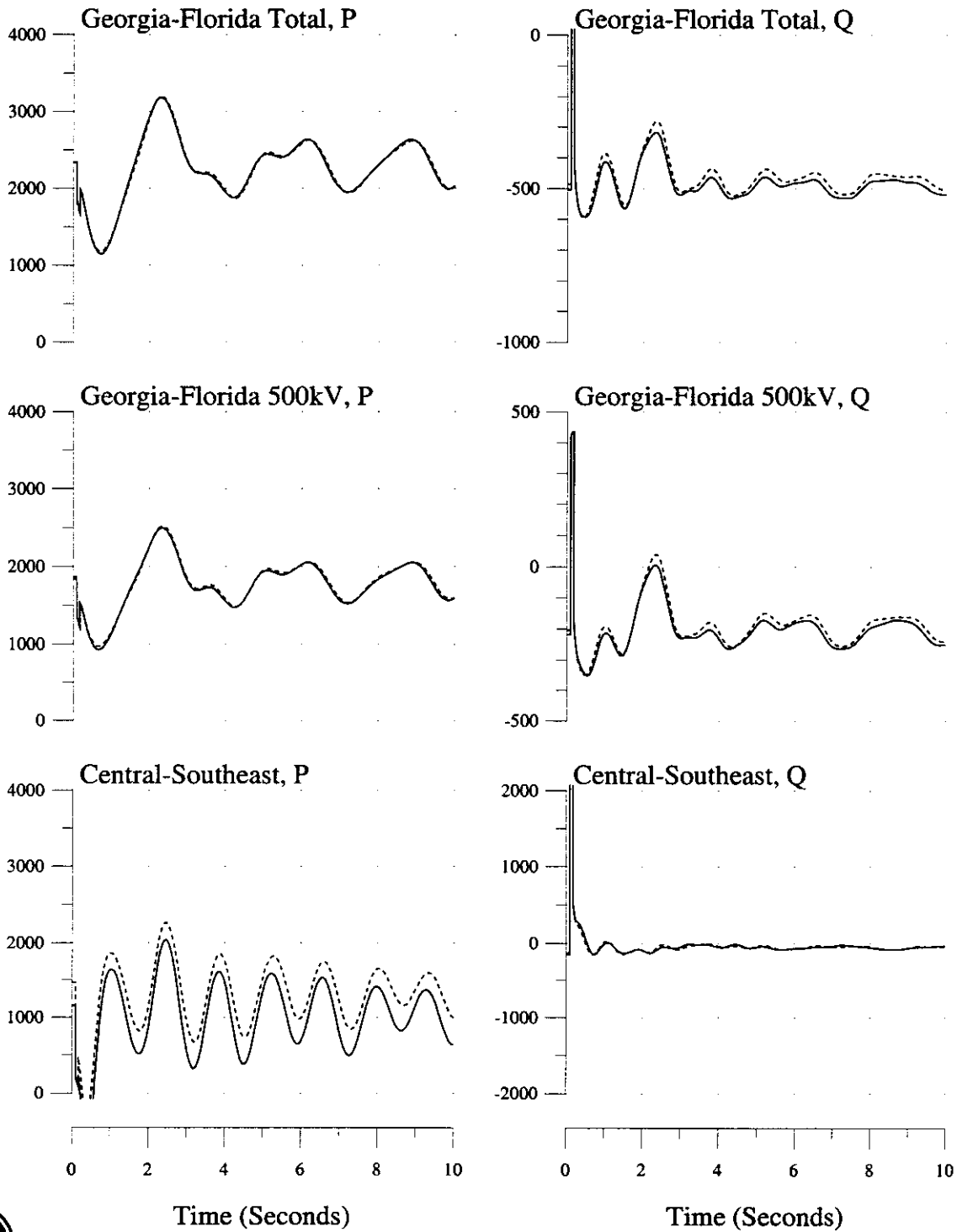
Time (Seconds)

Time (Seconds)



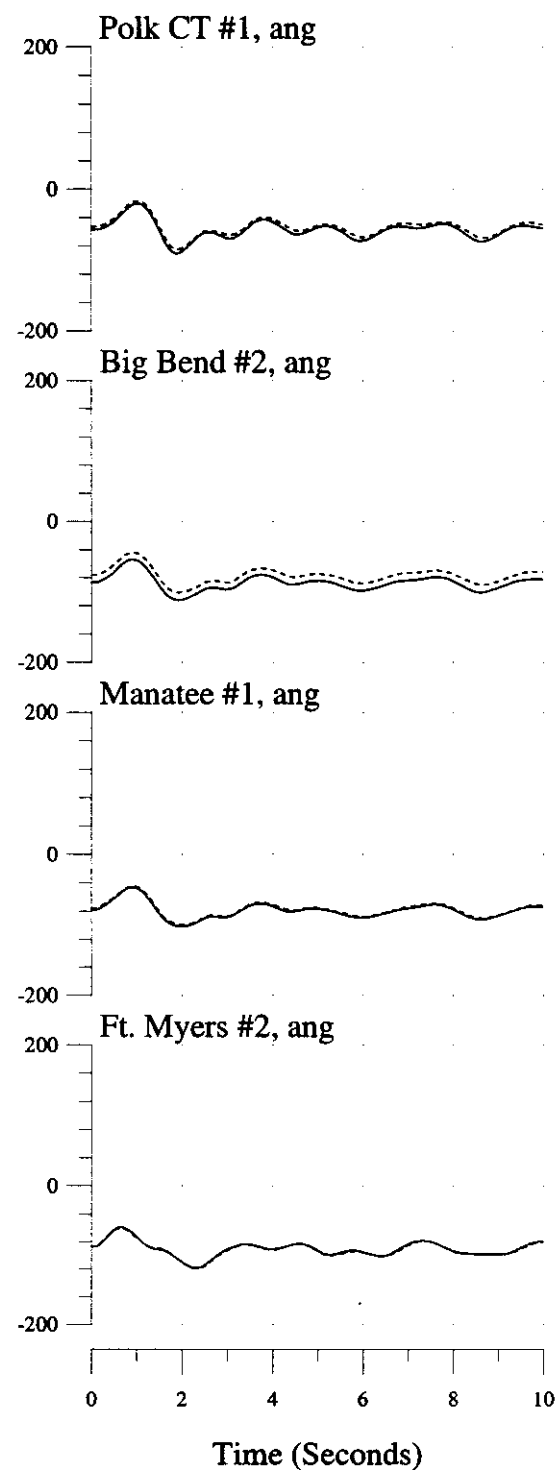
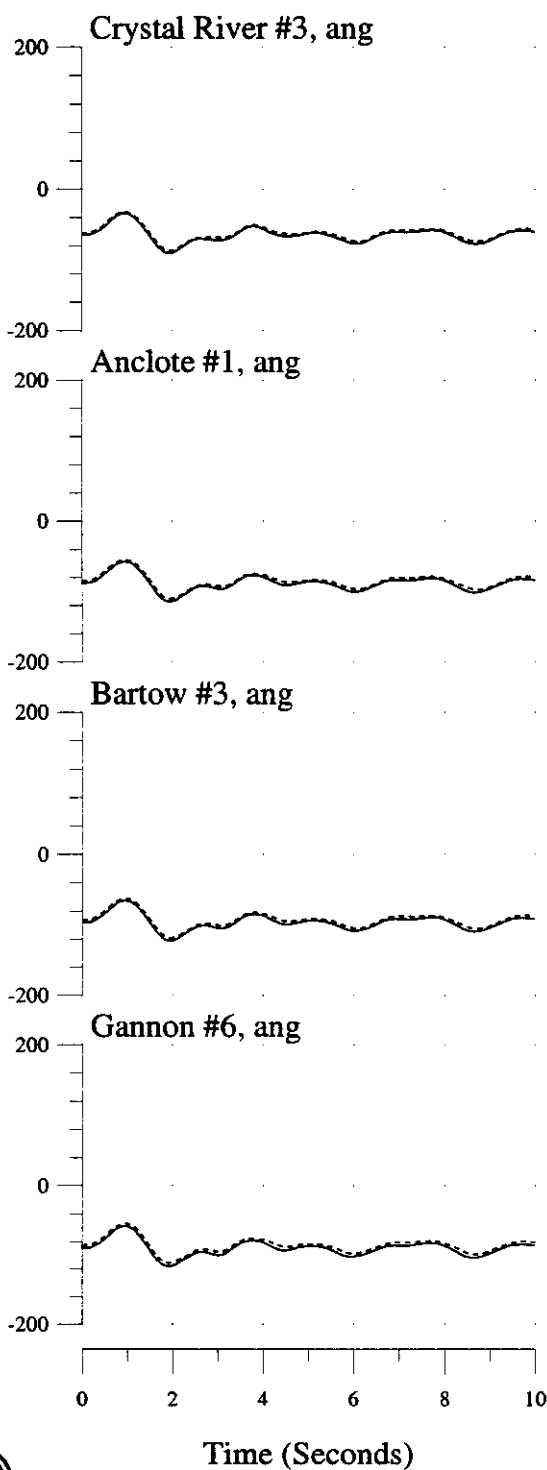
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



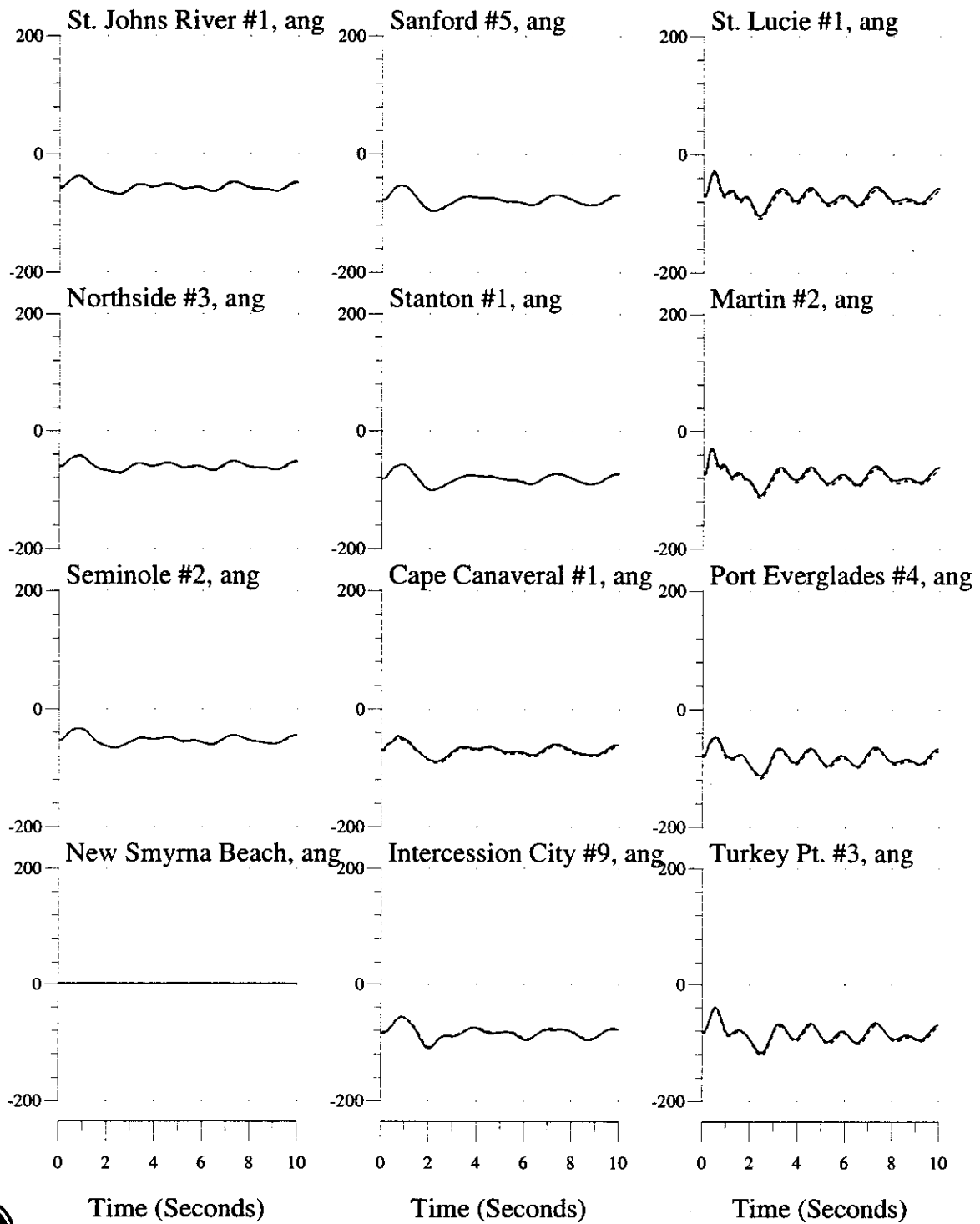
# 3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line 2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



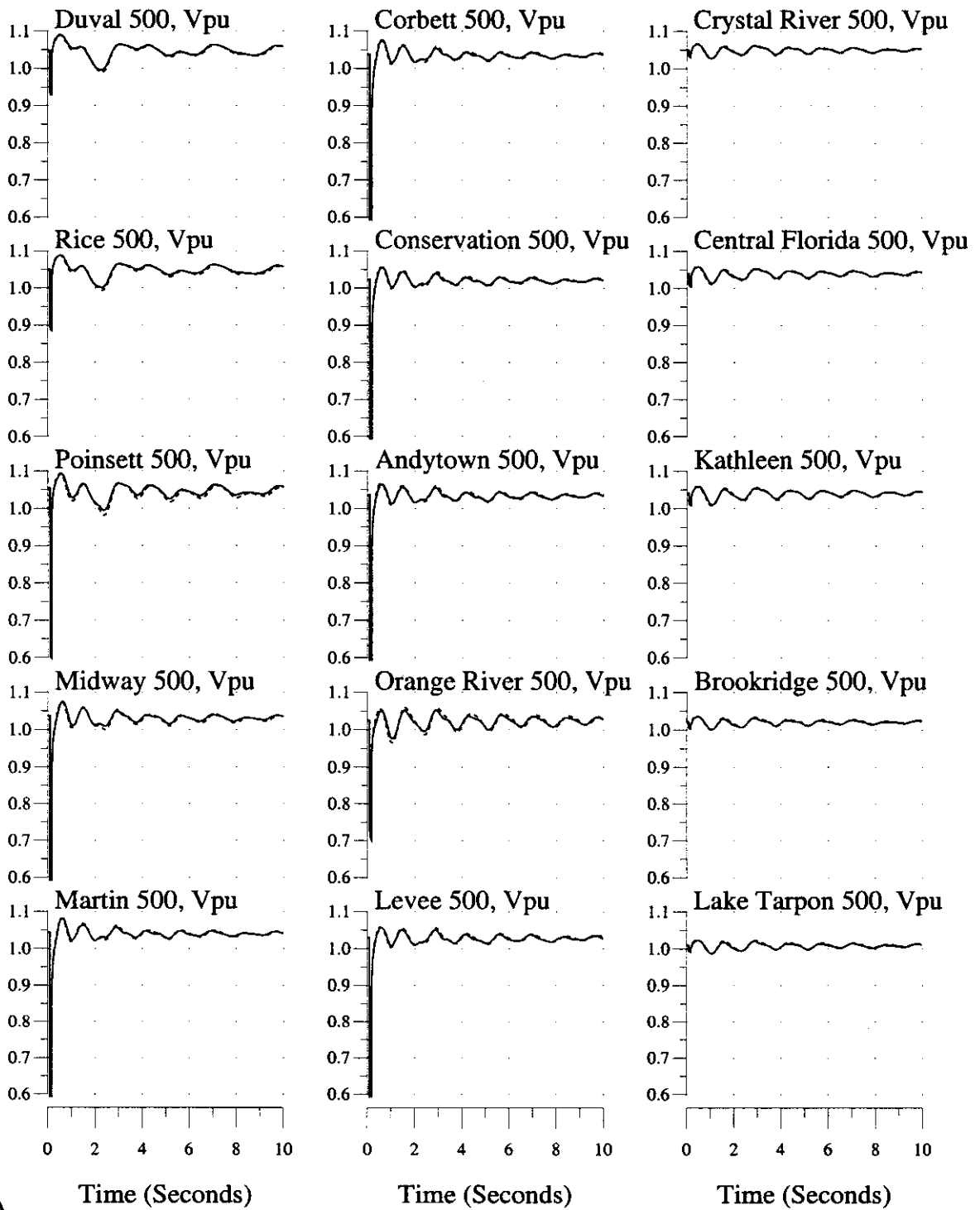
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



### 3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line 2003 Winter System

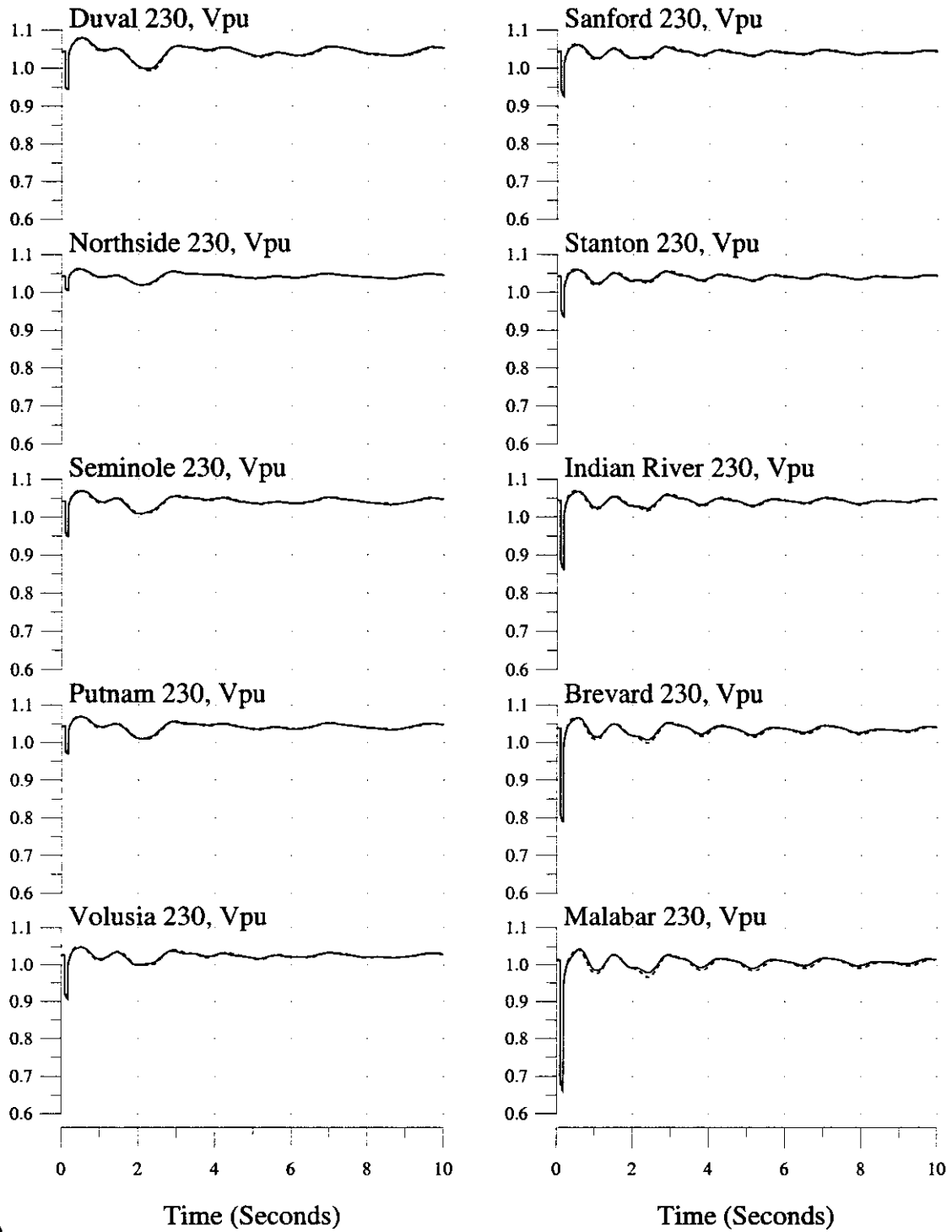
Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without





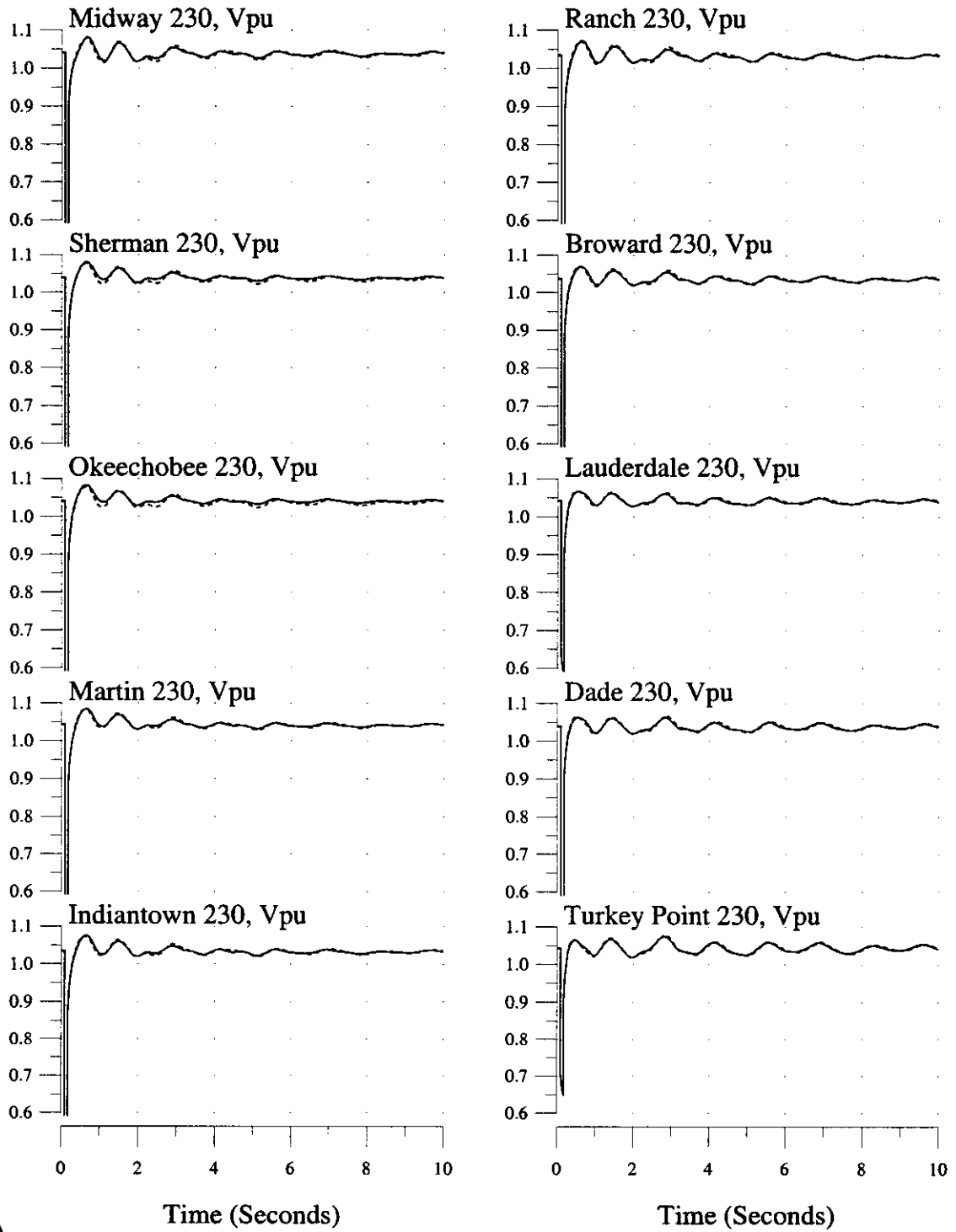
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



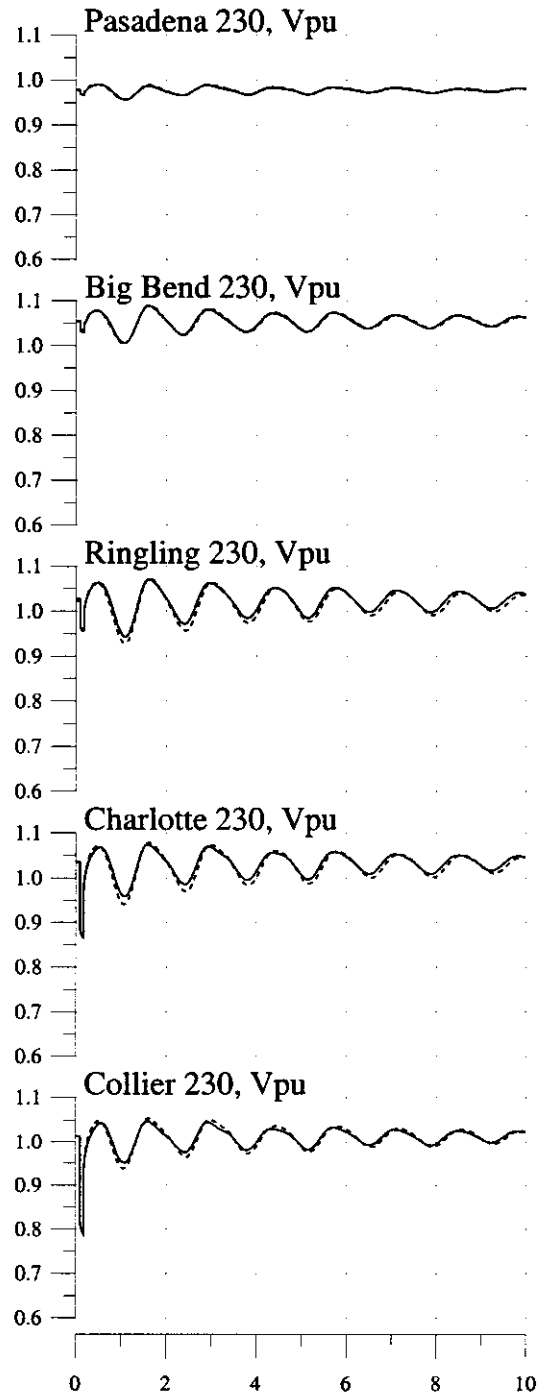
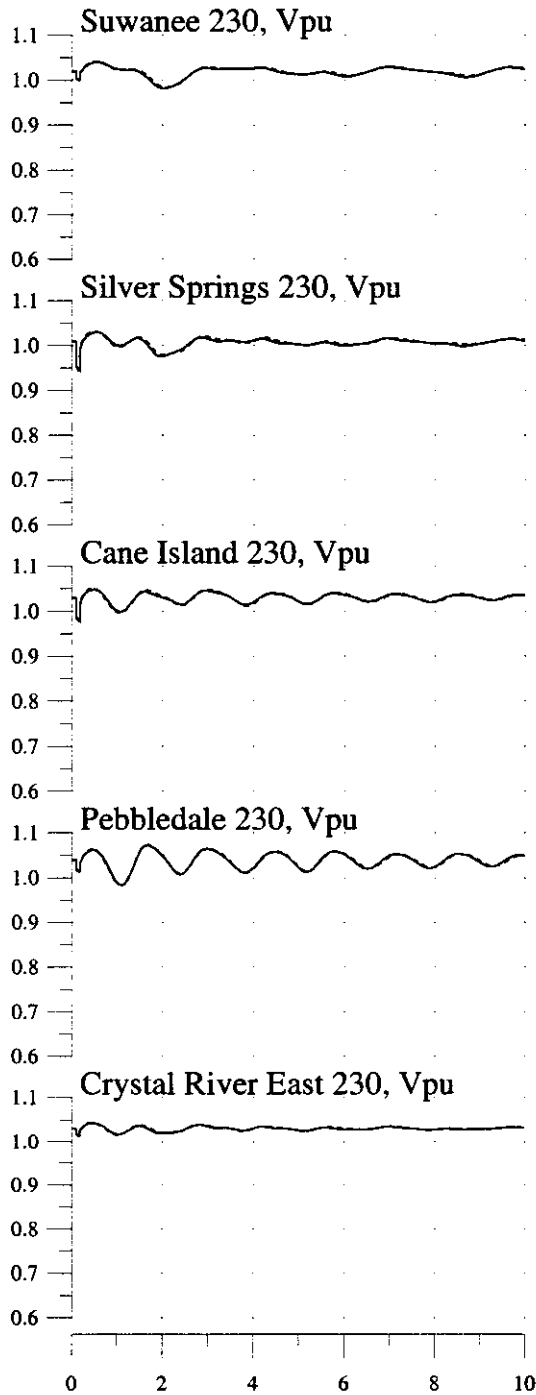
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



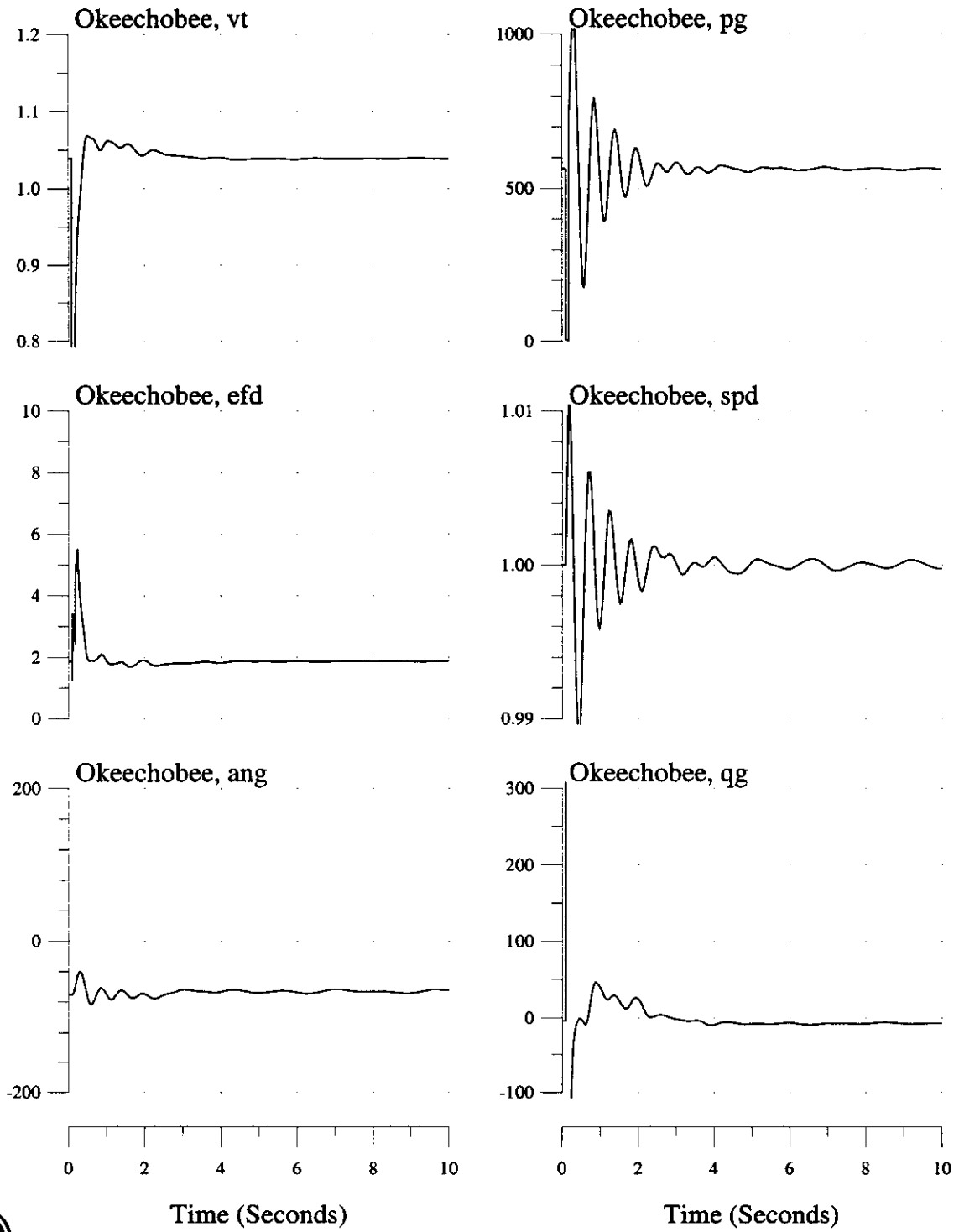
Time (Seconds)

Time (Seconds)



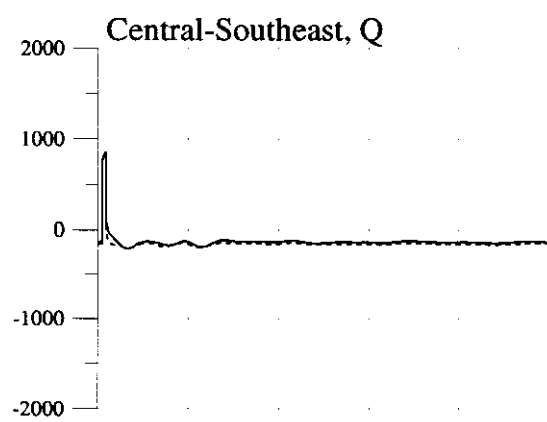
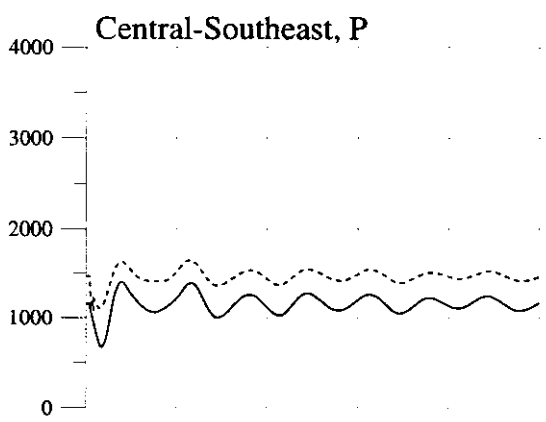
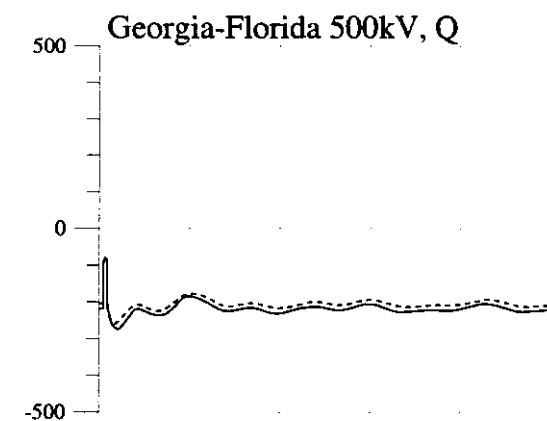
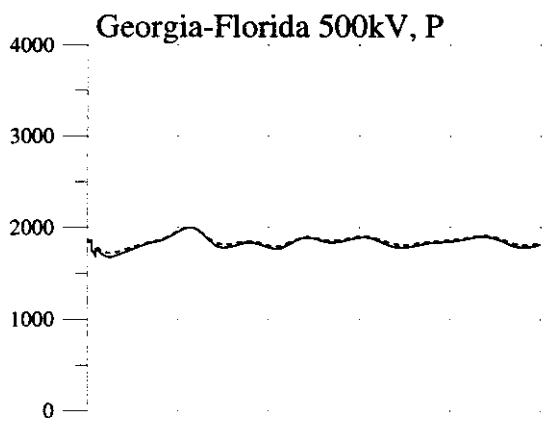
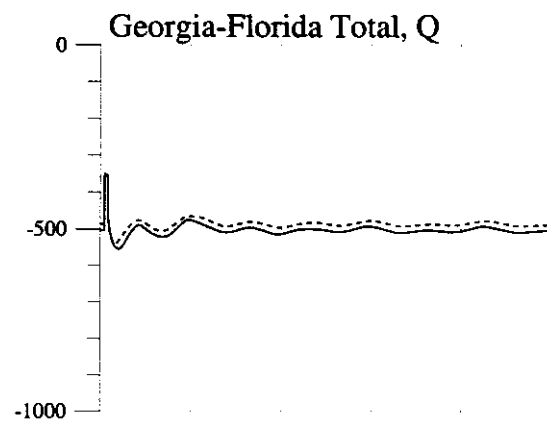
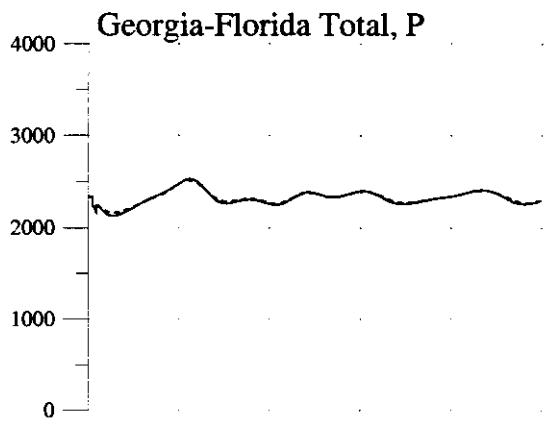
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



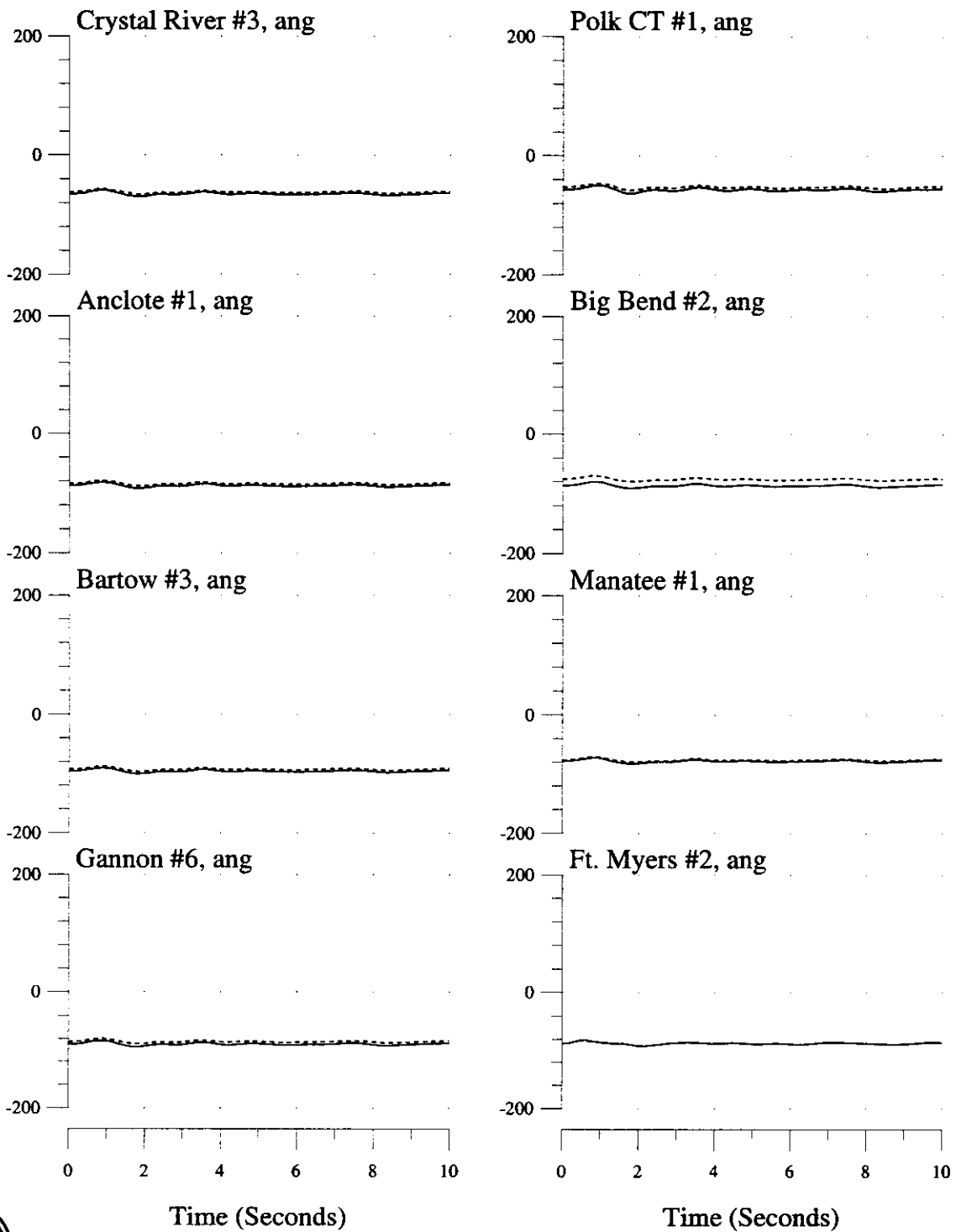
Time (Seconds)

Time (Seconds)



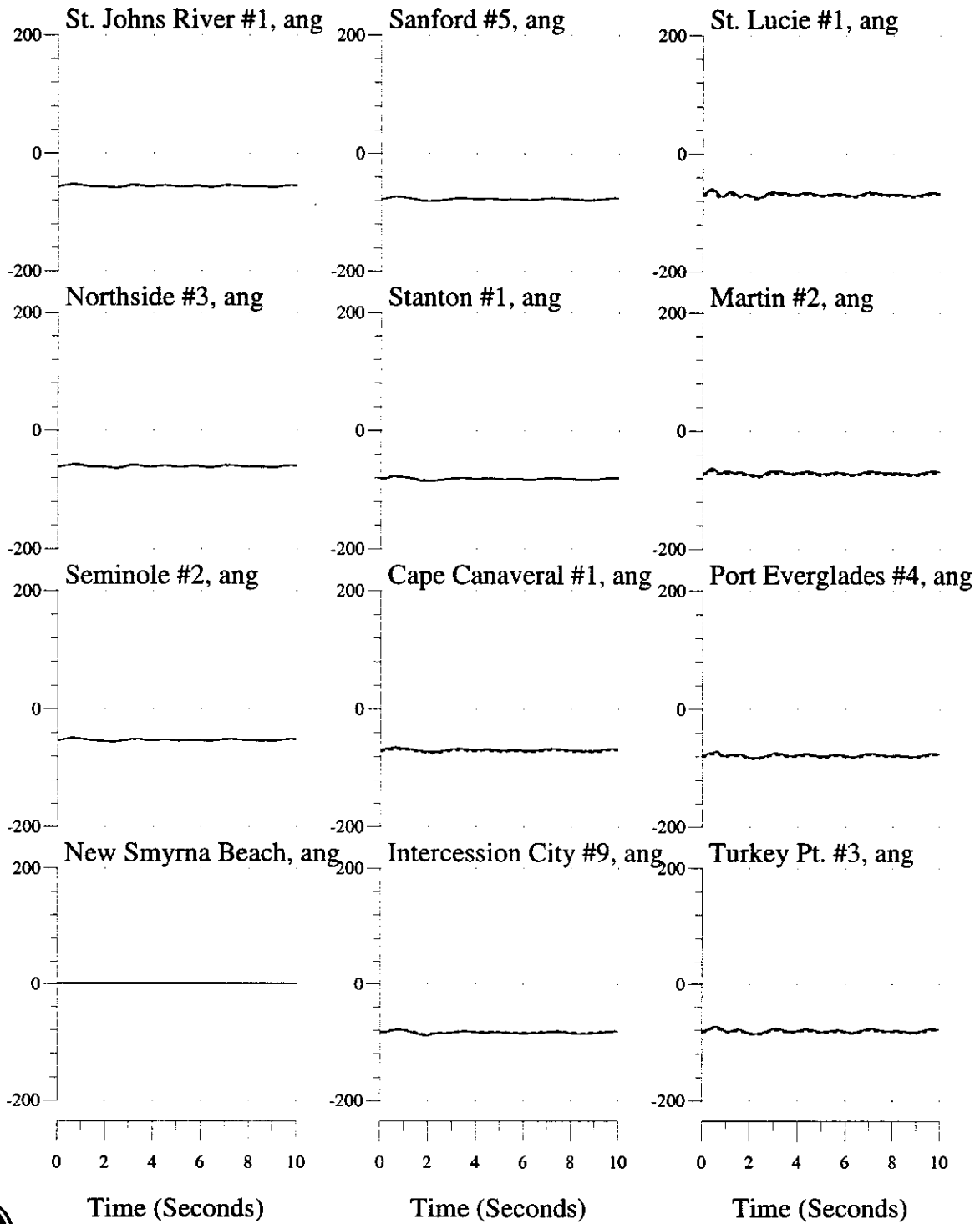
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



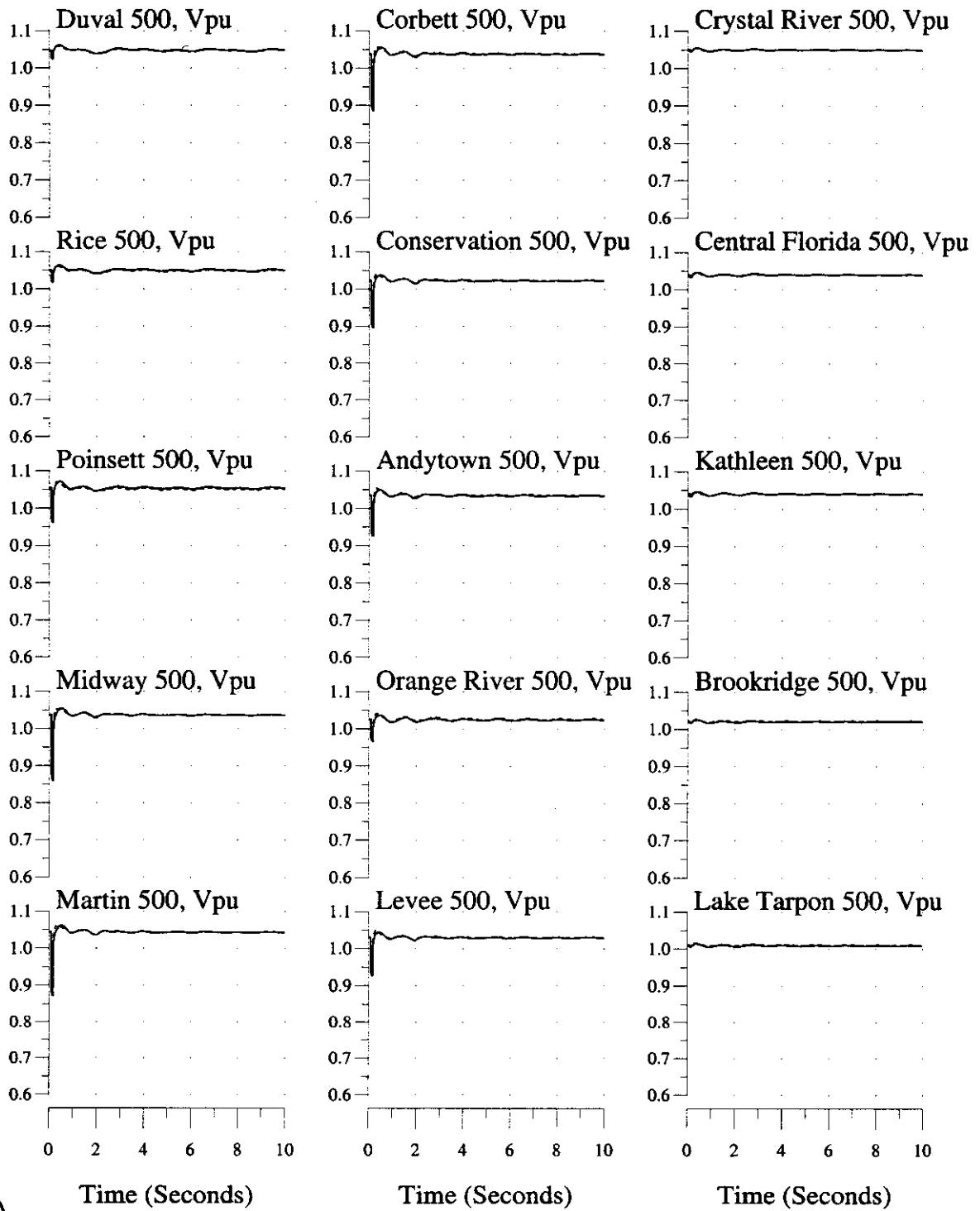
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

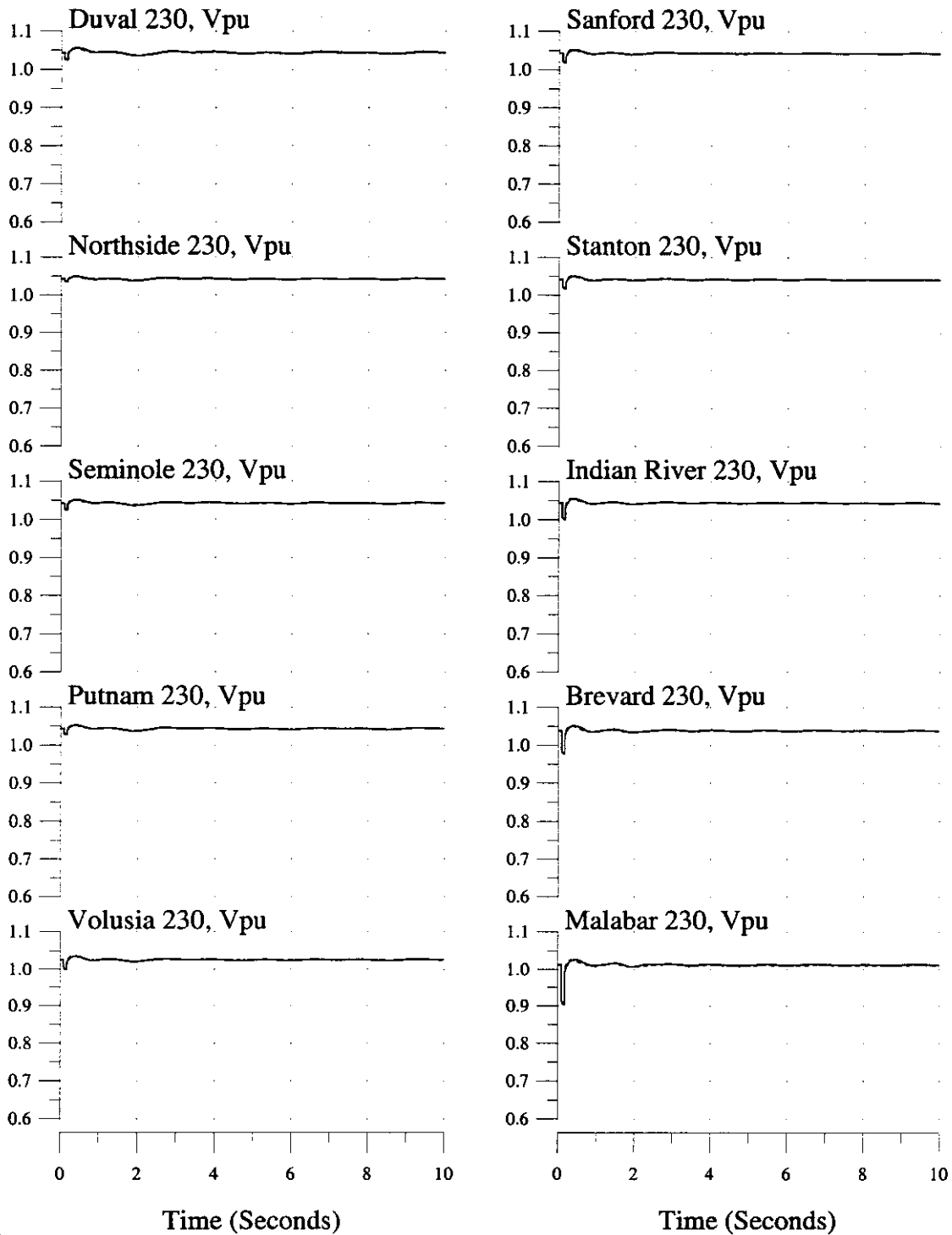
Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without





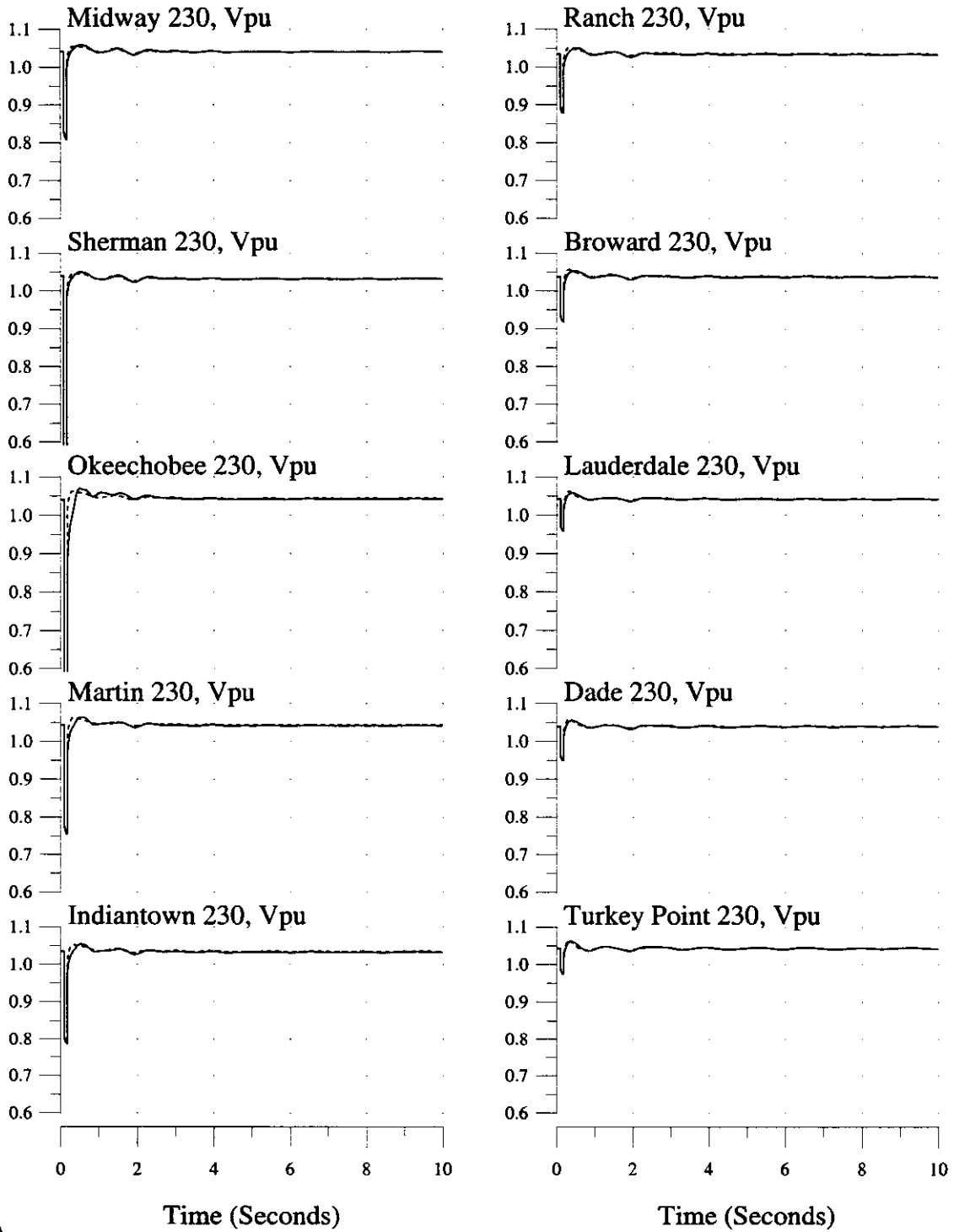
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



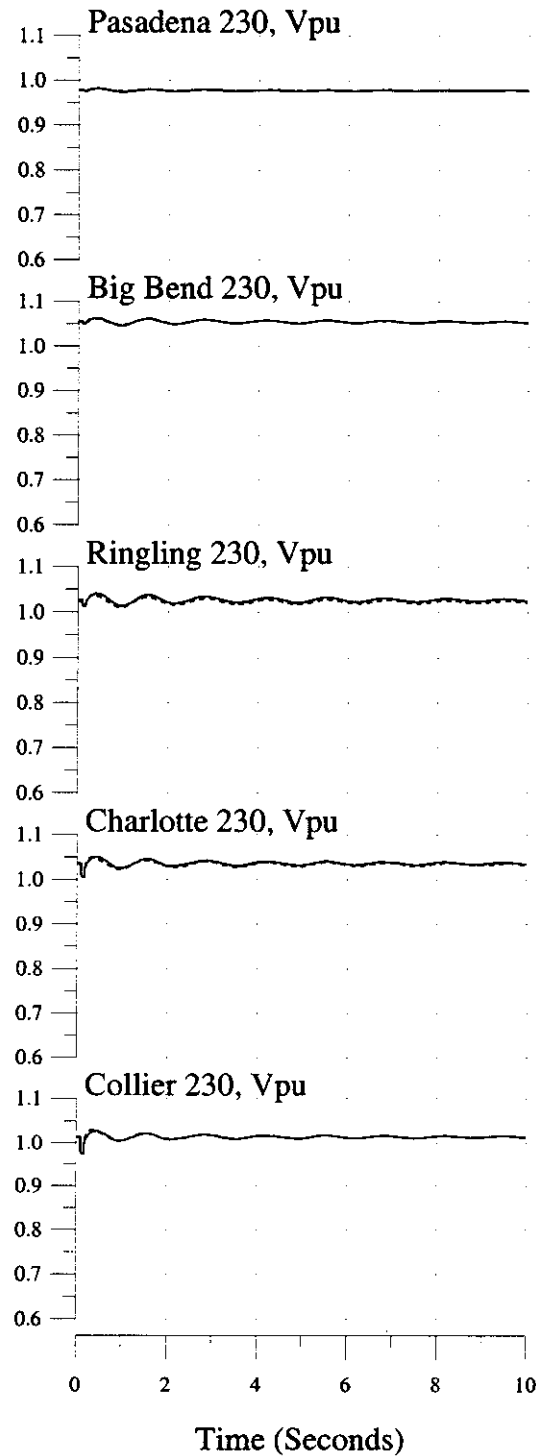
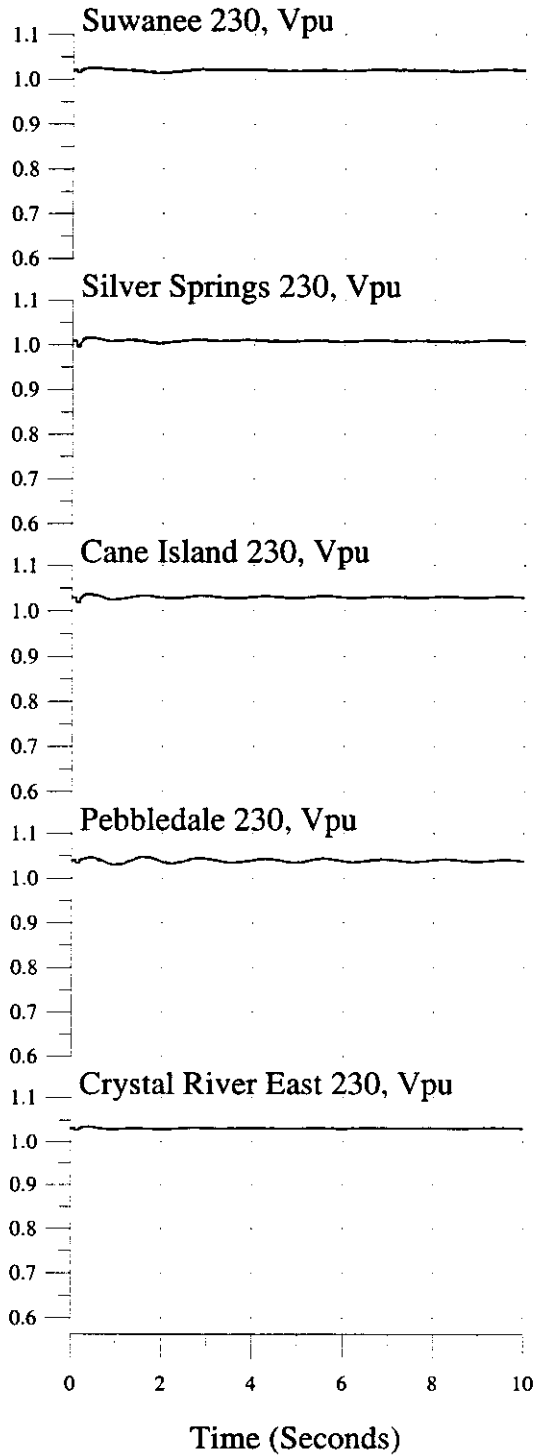
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without



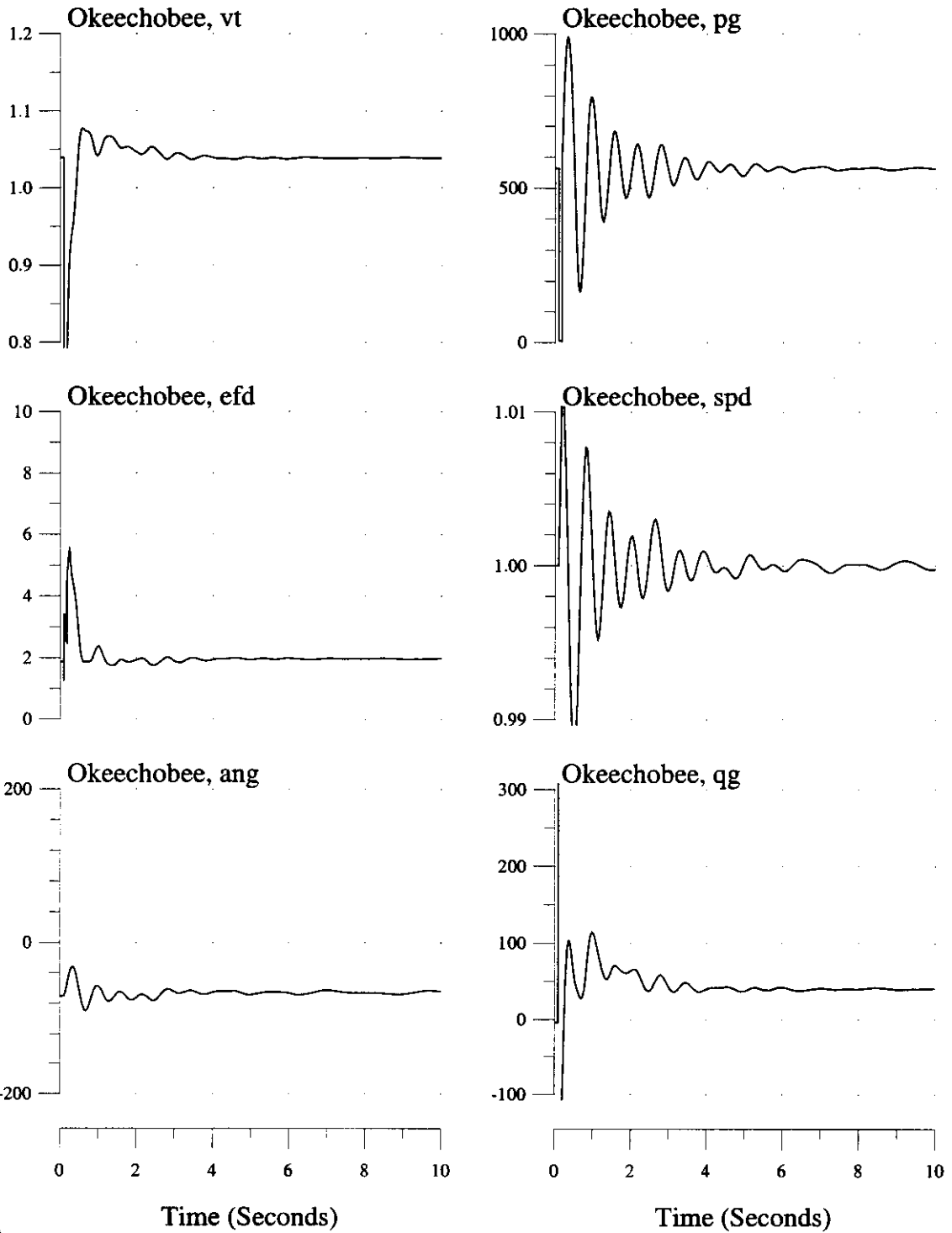
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



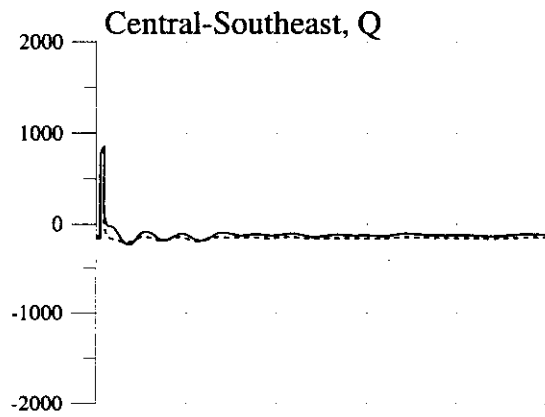
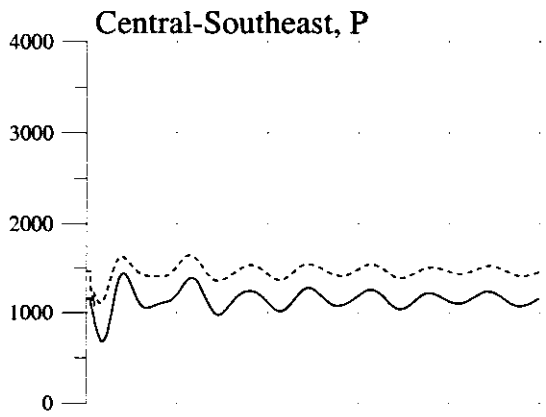
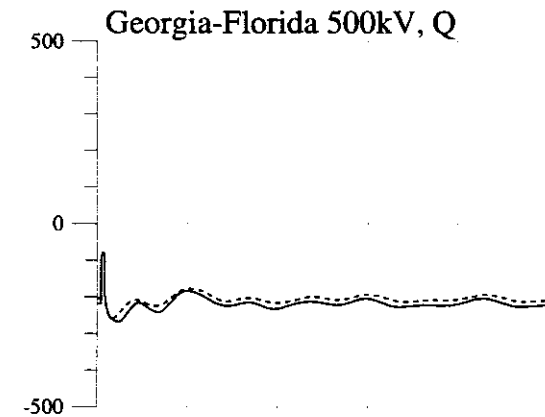
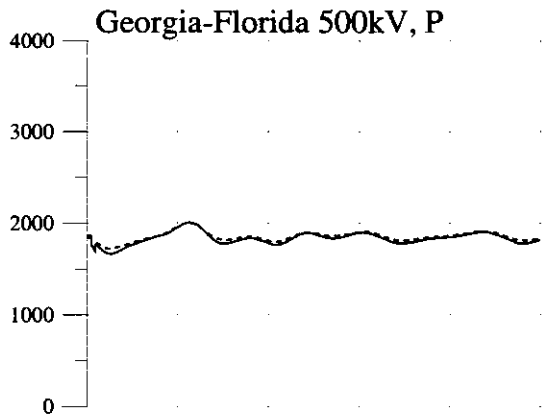
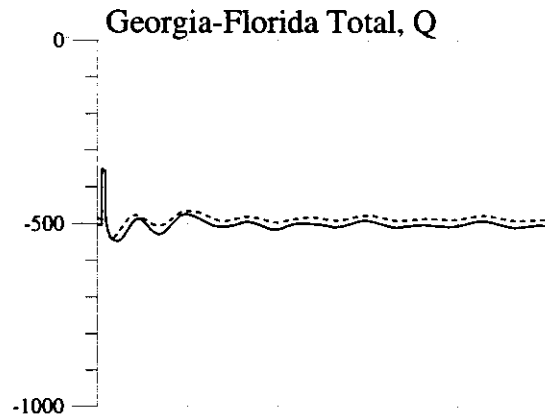
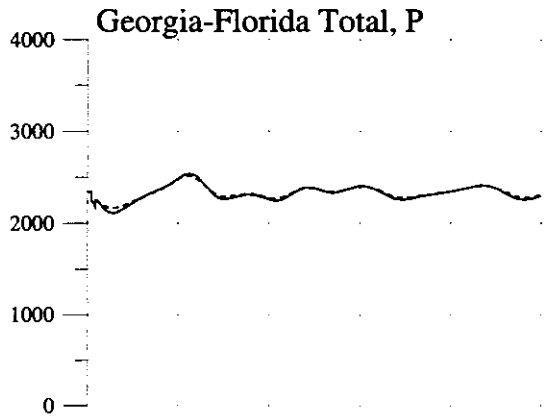
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



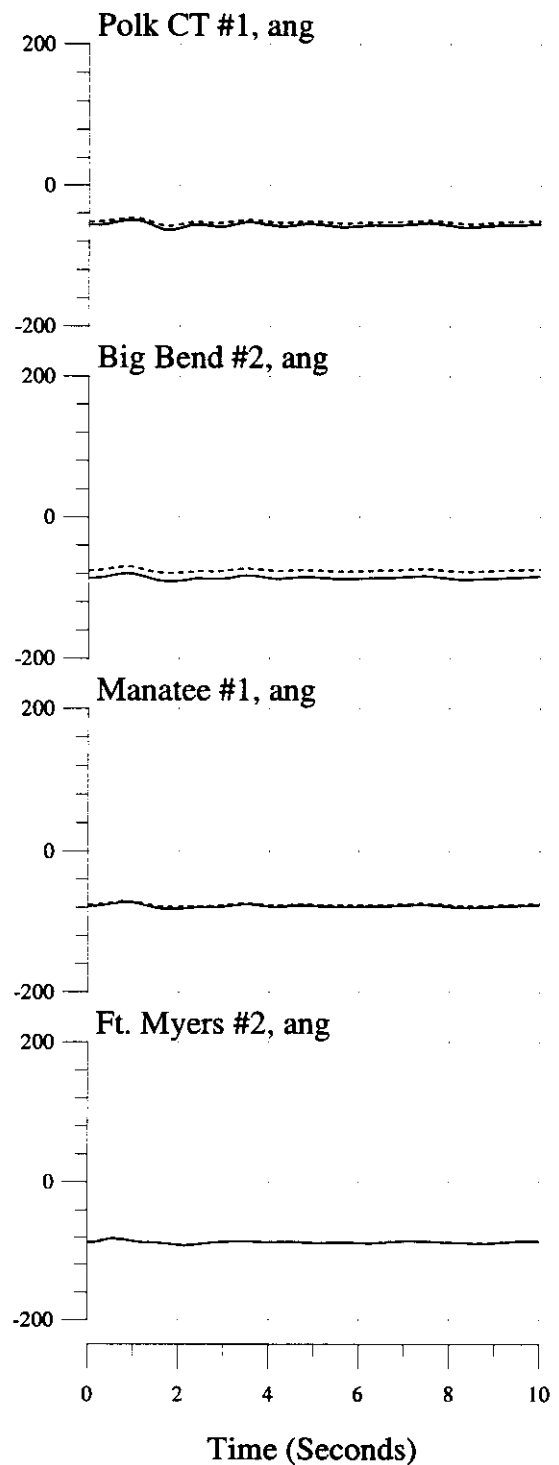
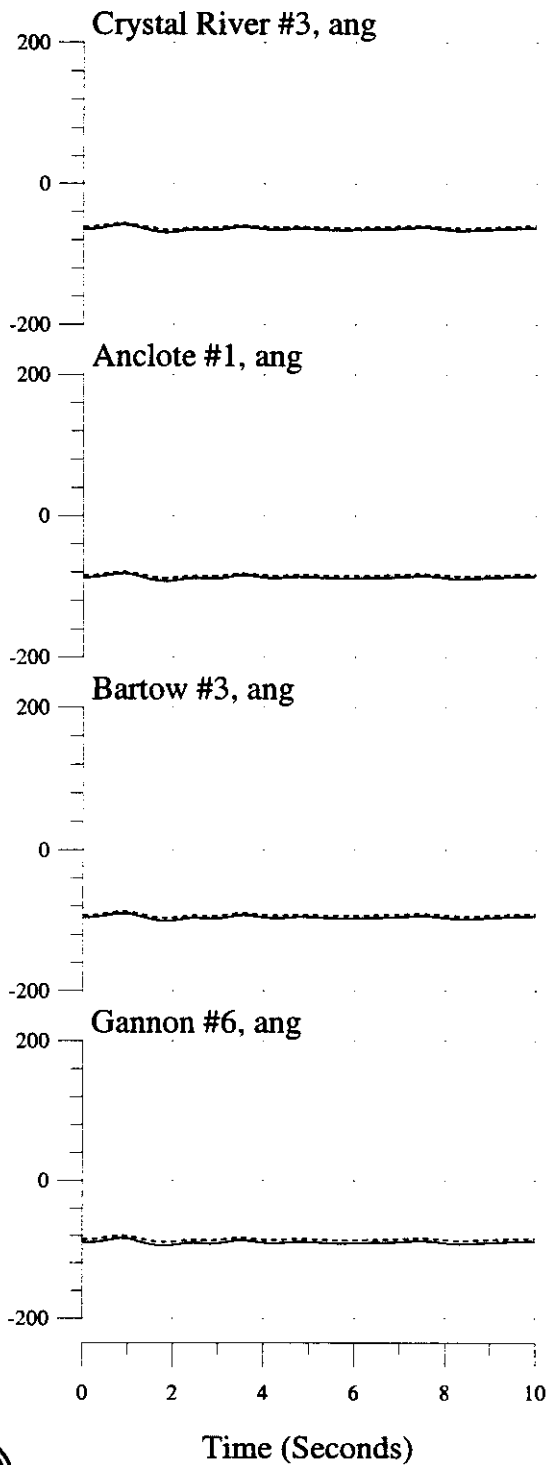
Time (Seconds)

Time (Seconds)



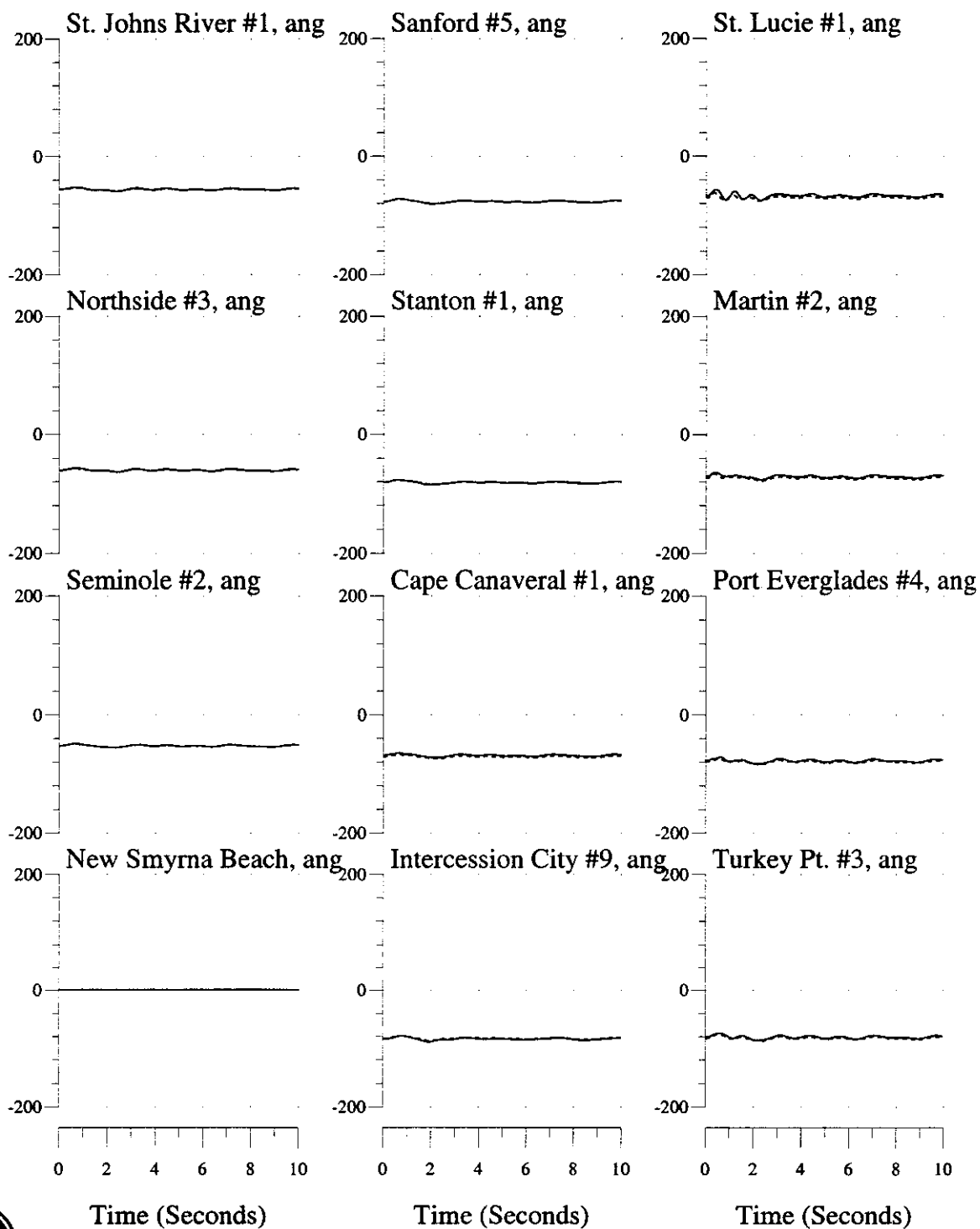
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



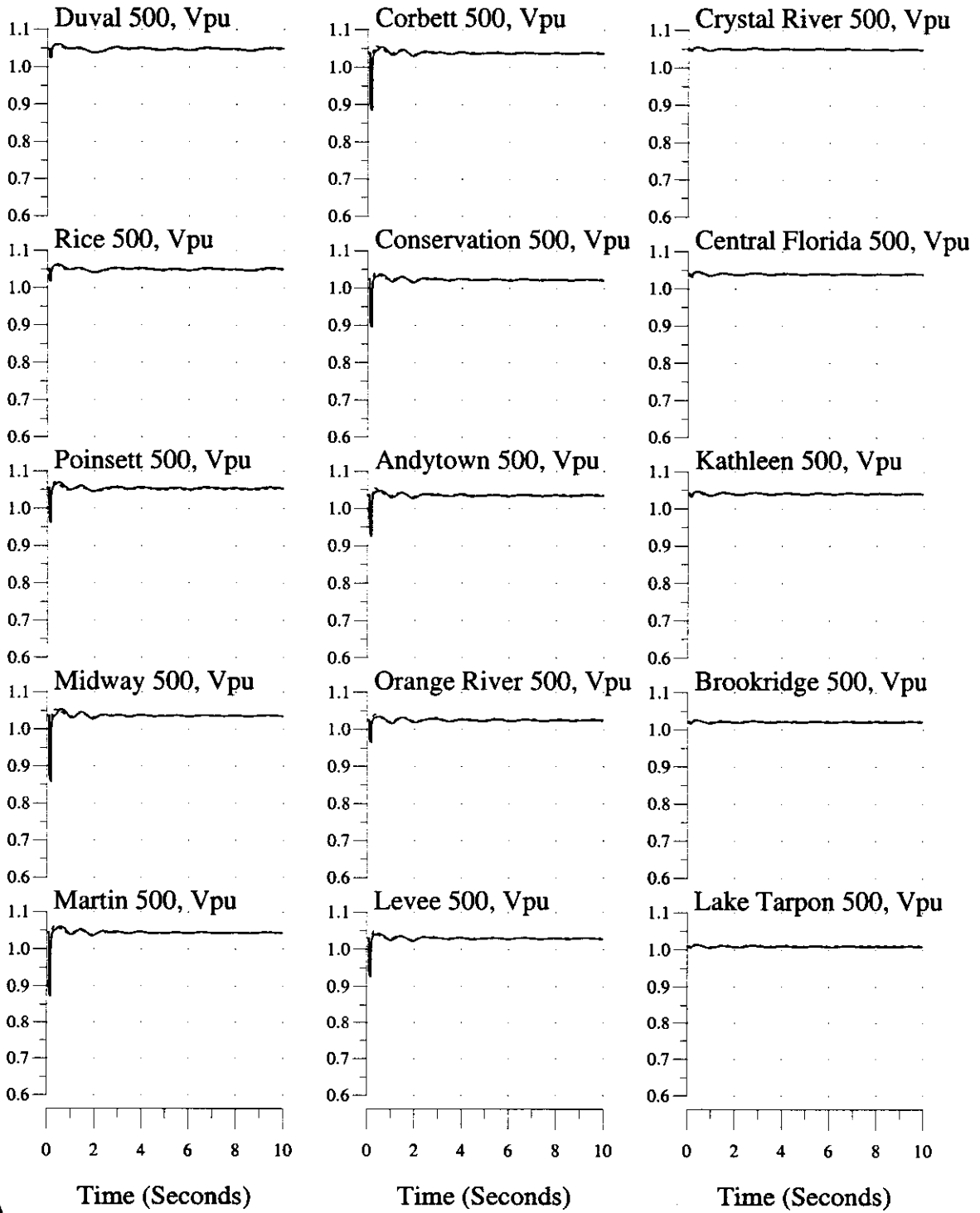
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System

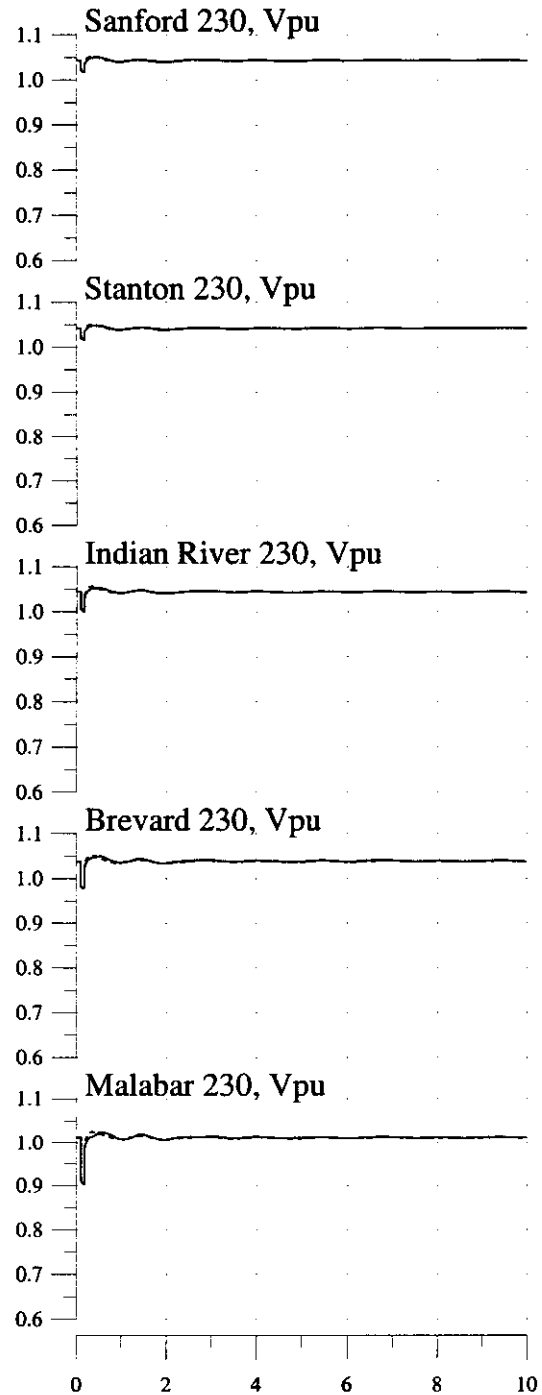
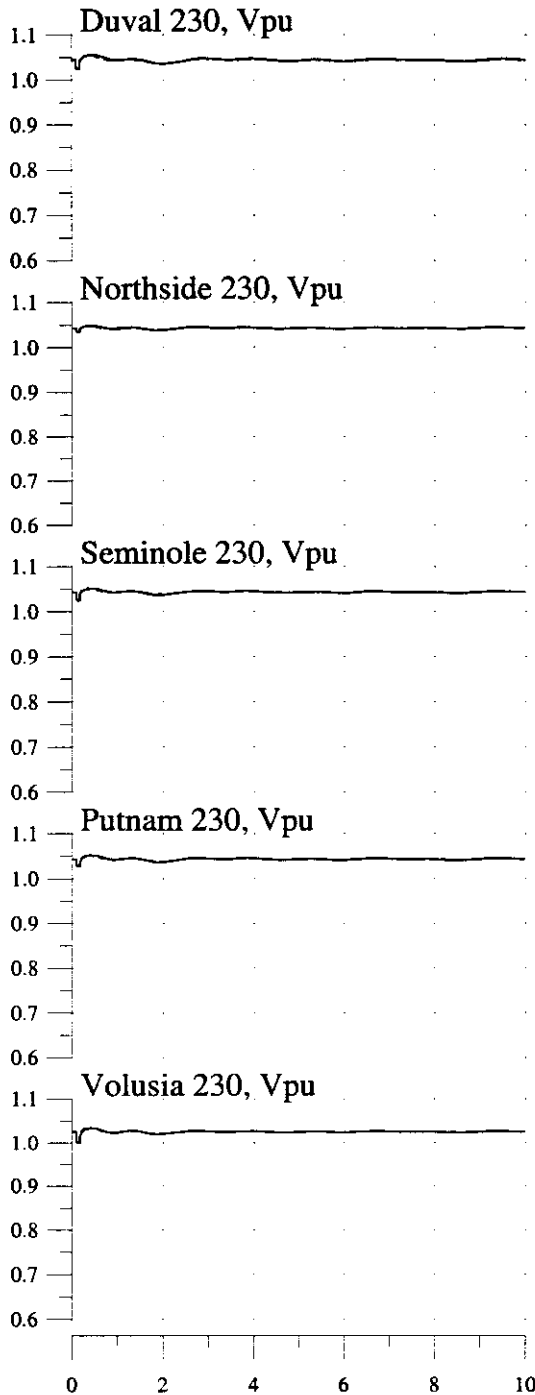
Bus Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without





3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without

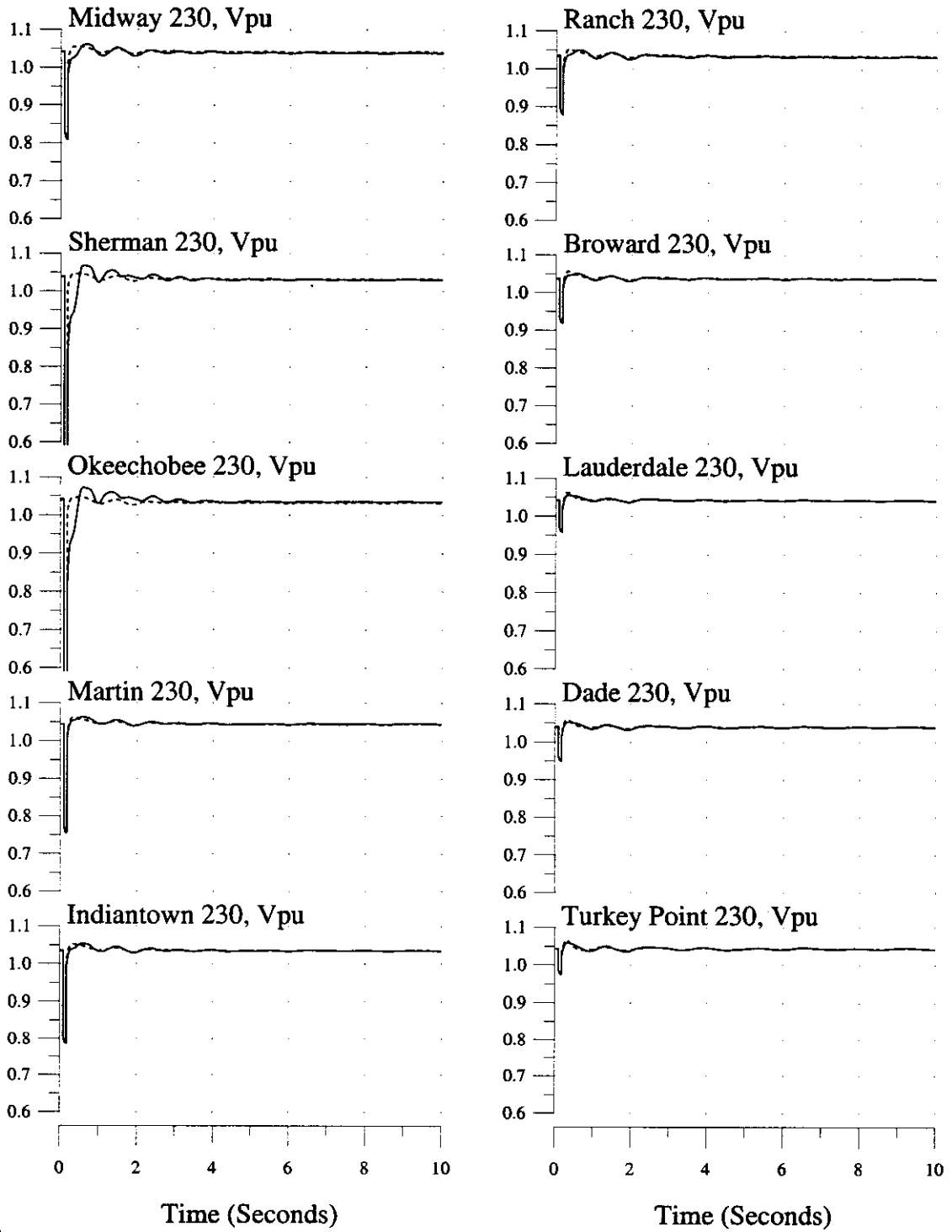


Time (Seconds)

Time (Seconds)

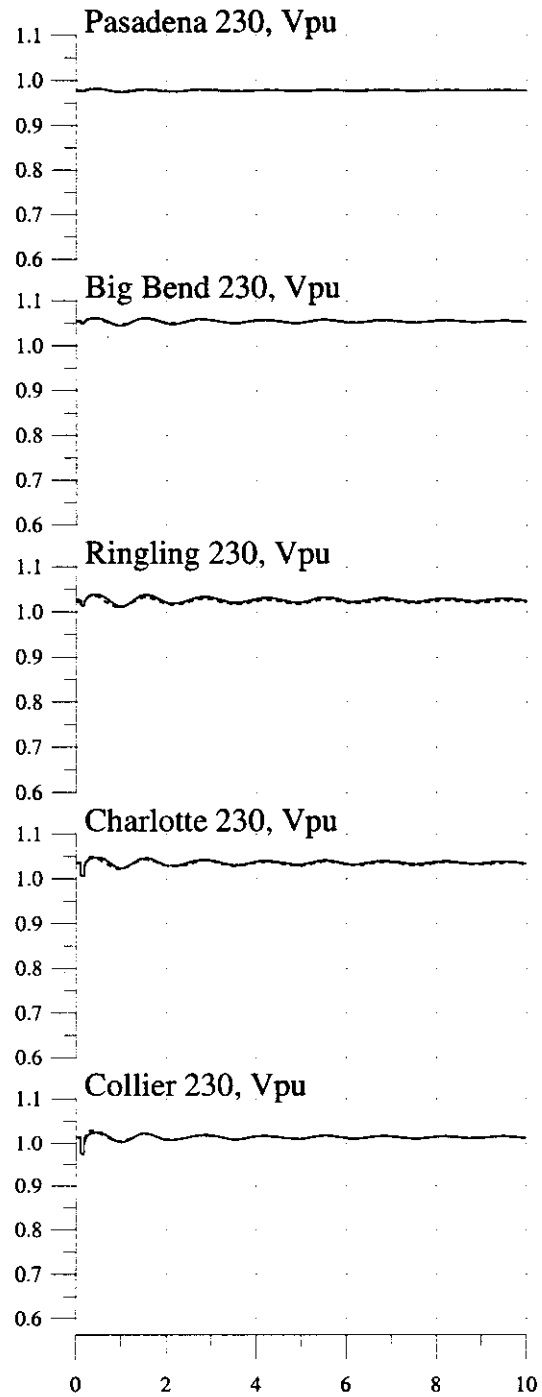
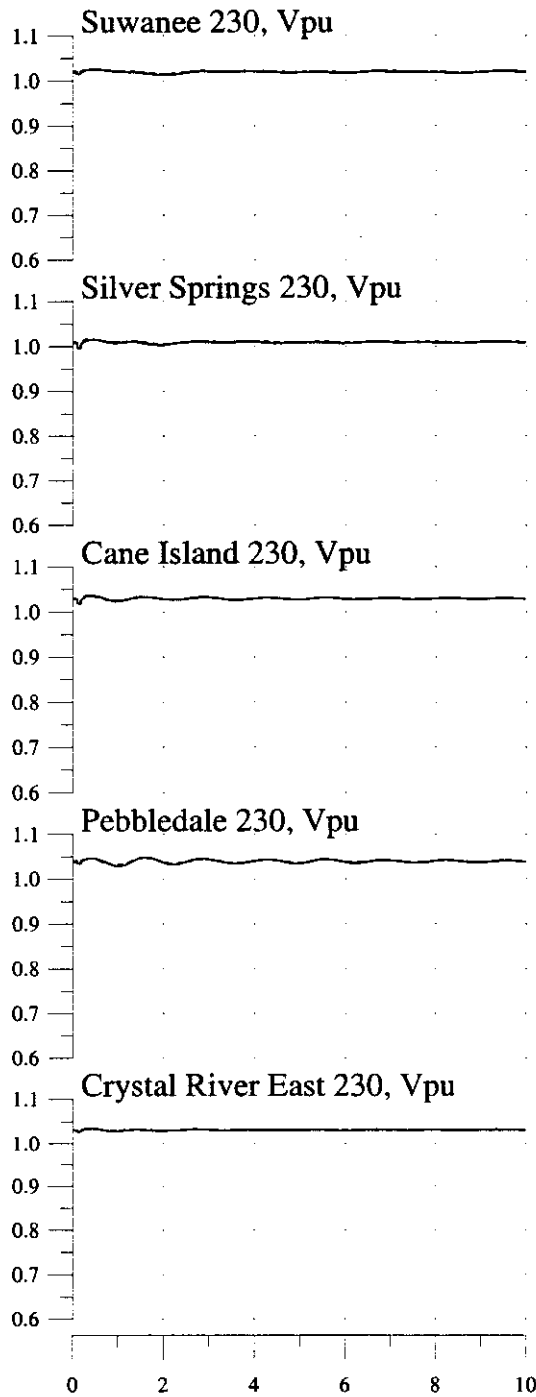
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without

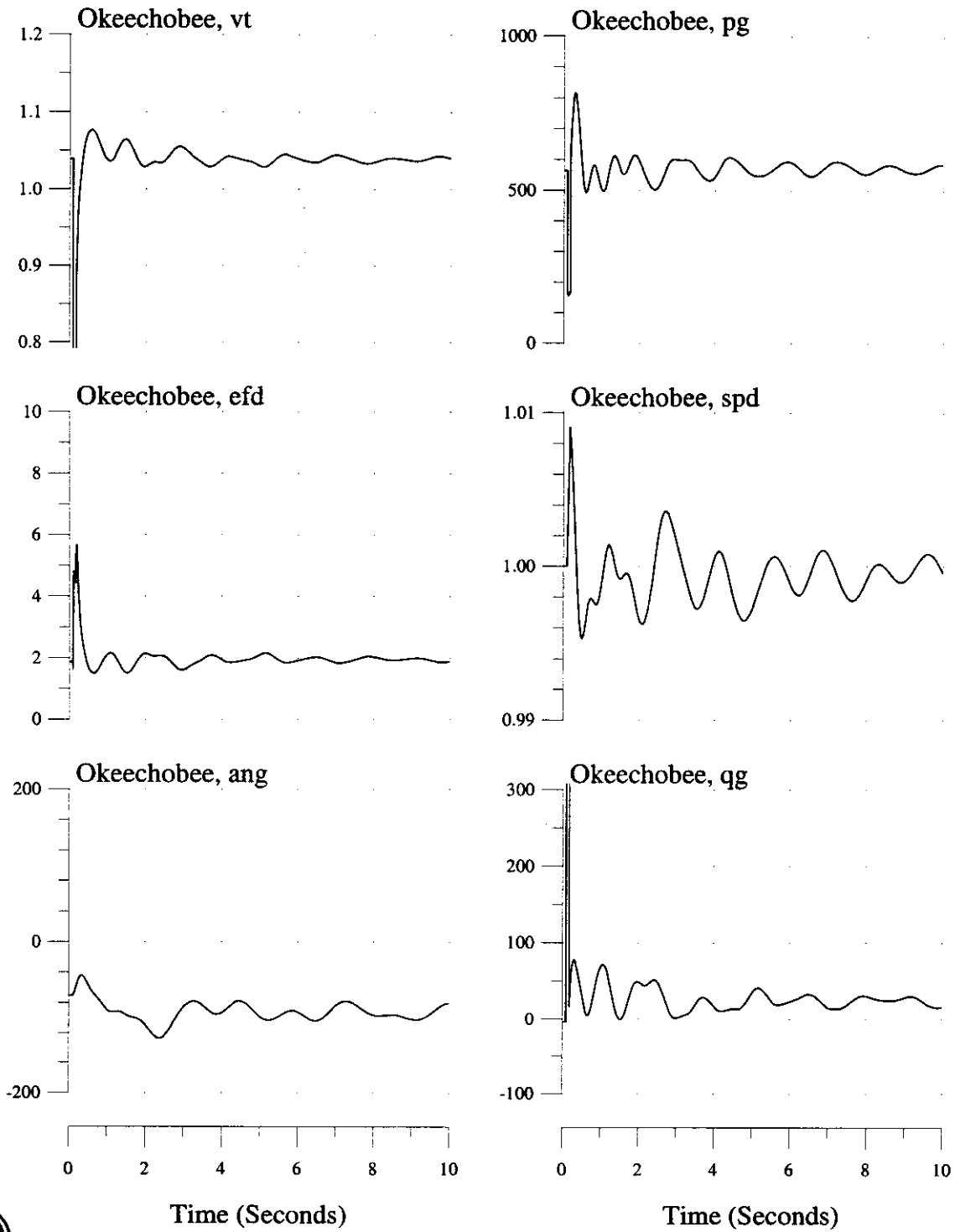


Time (Seconds)

Time (Seconds)

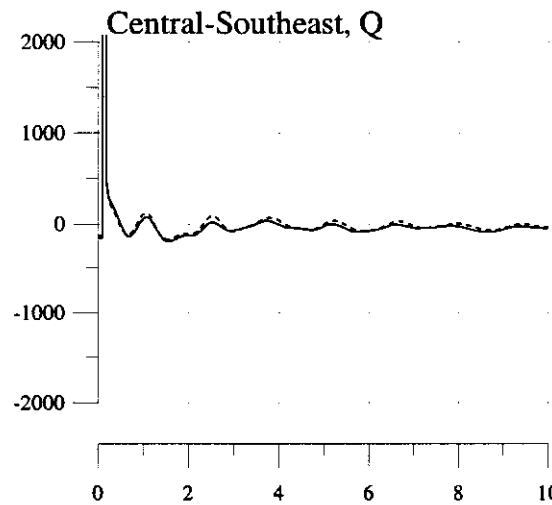
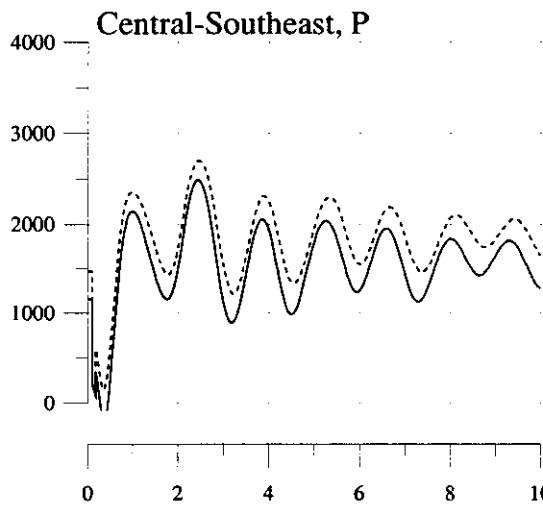
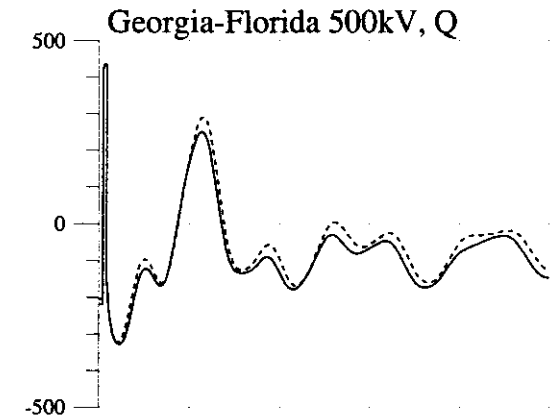
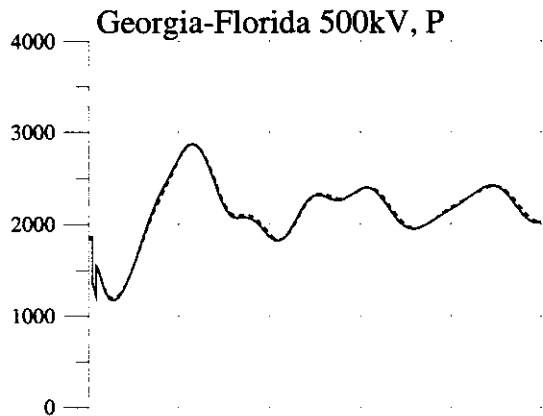
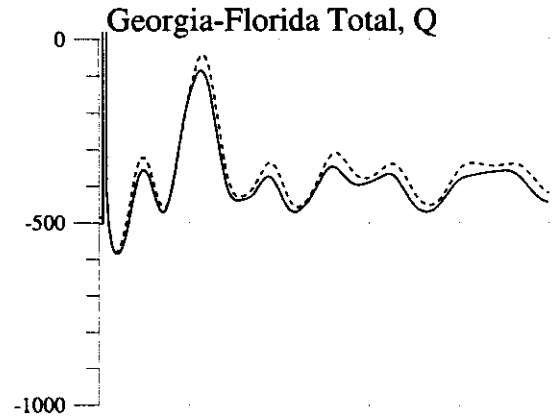
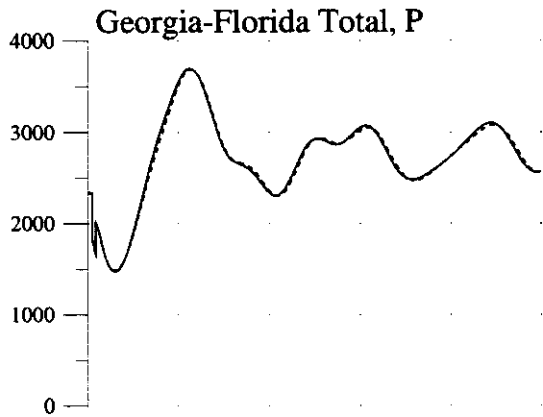
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



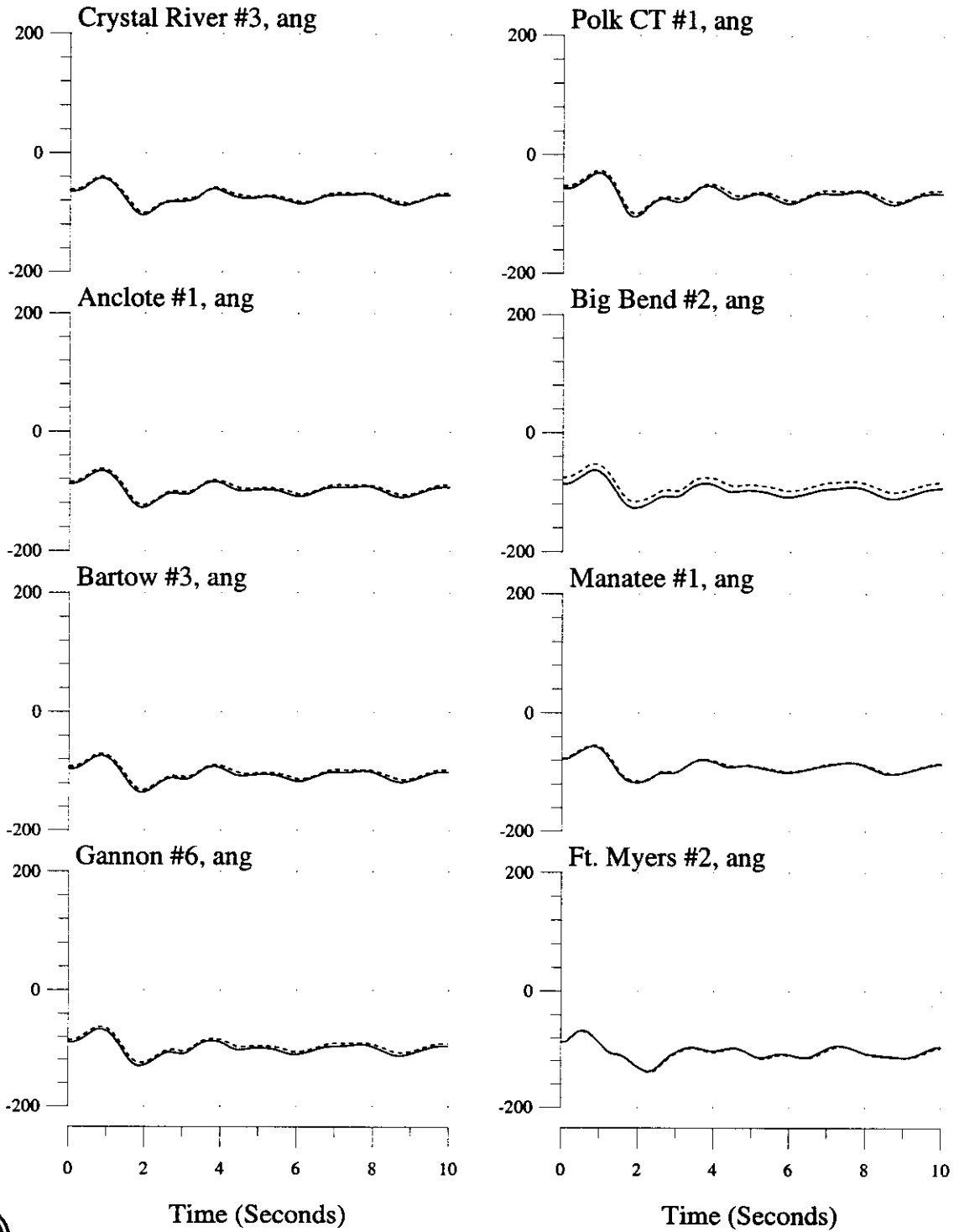
Time (Seconds)

Time (Seconds)



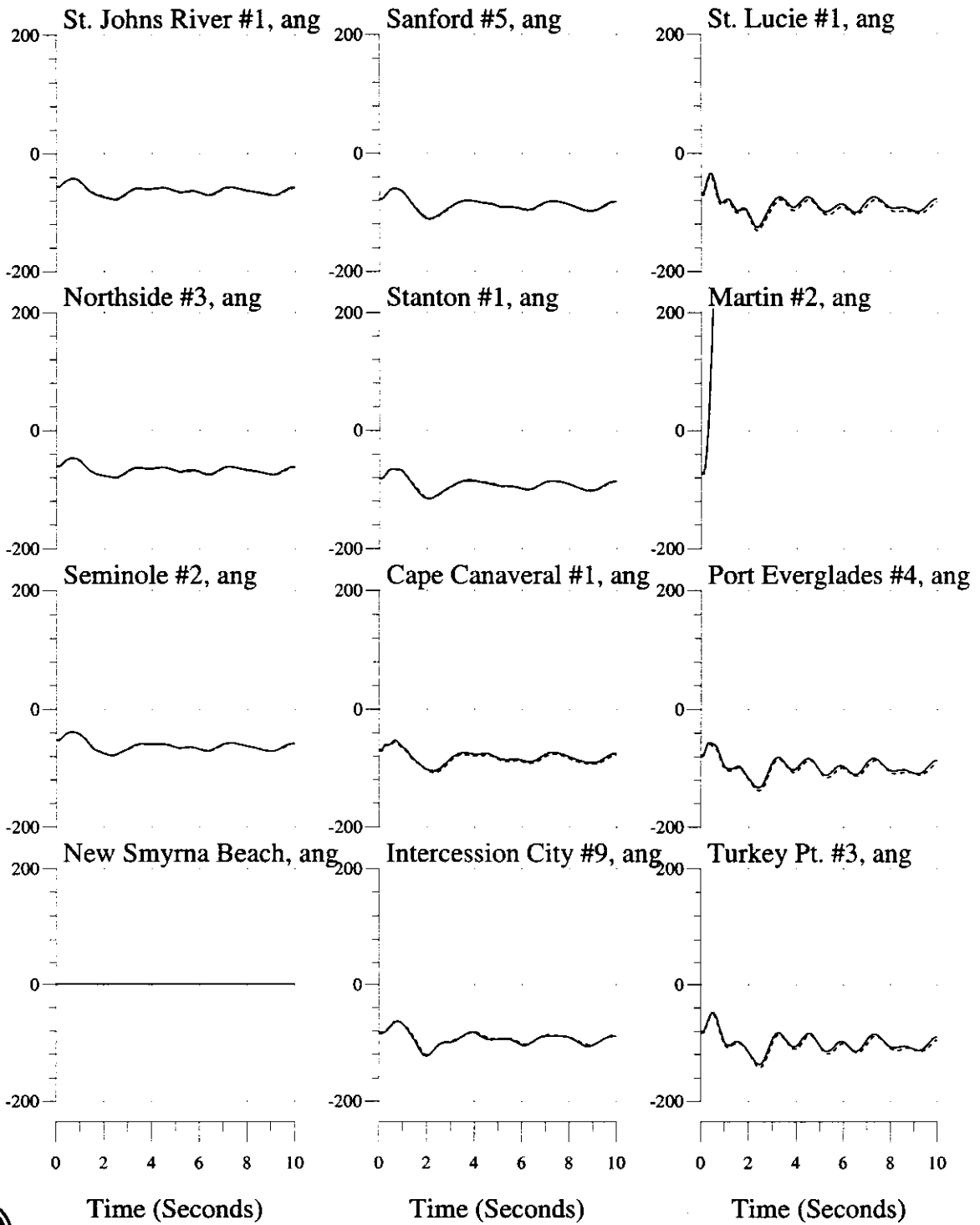
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



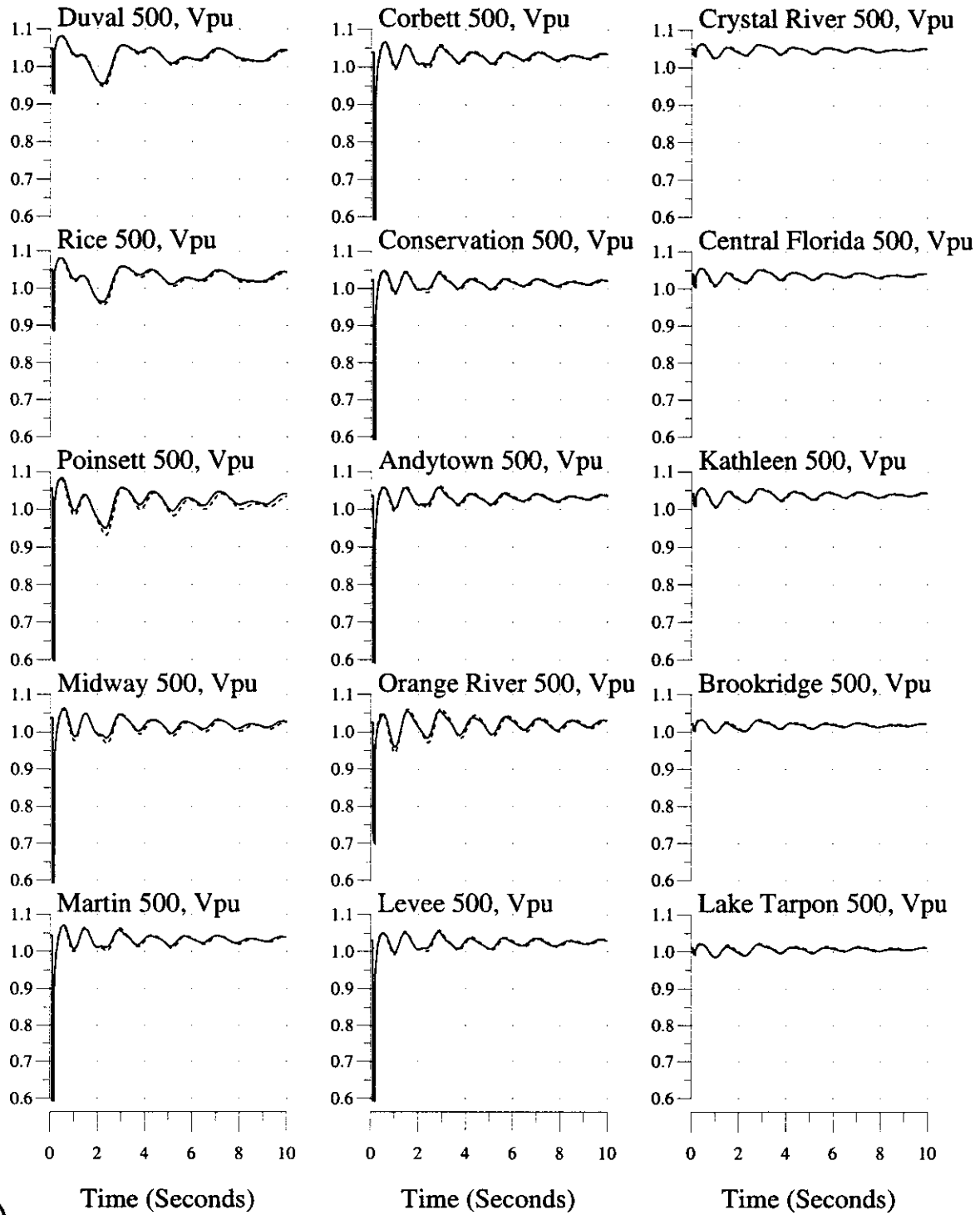
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

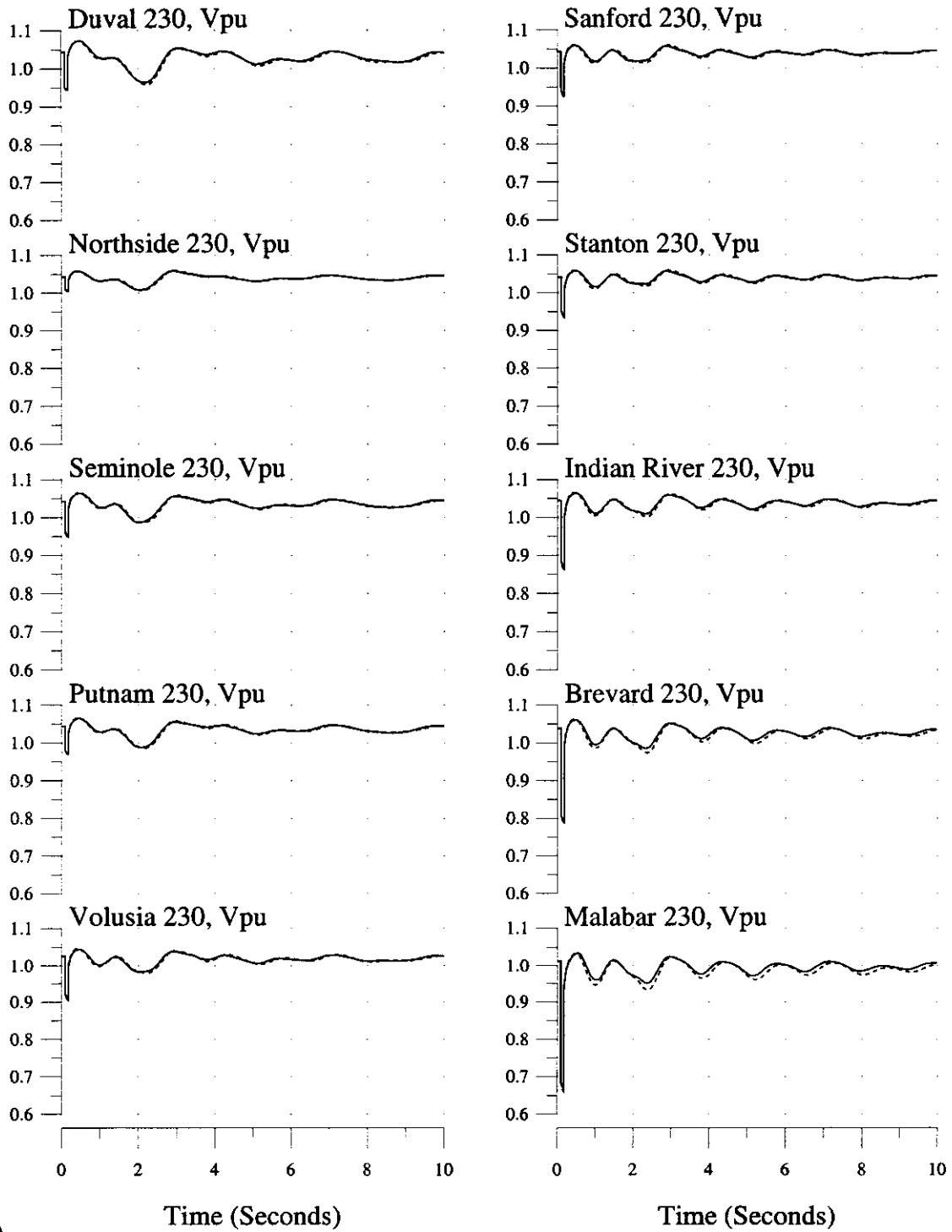
Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without





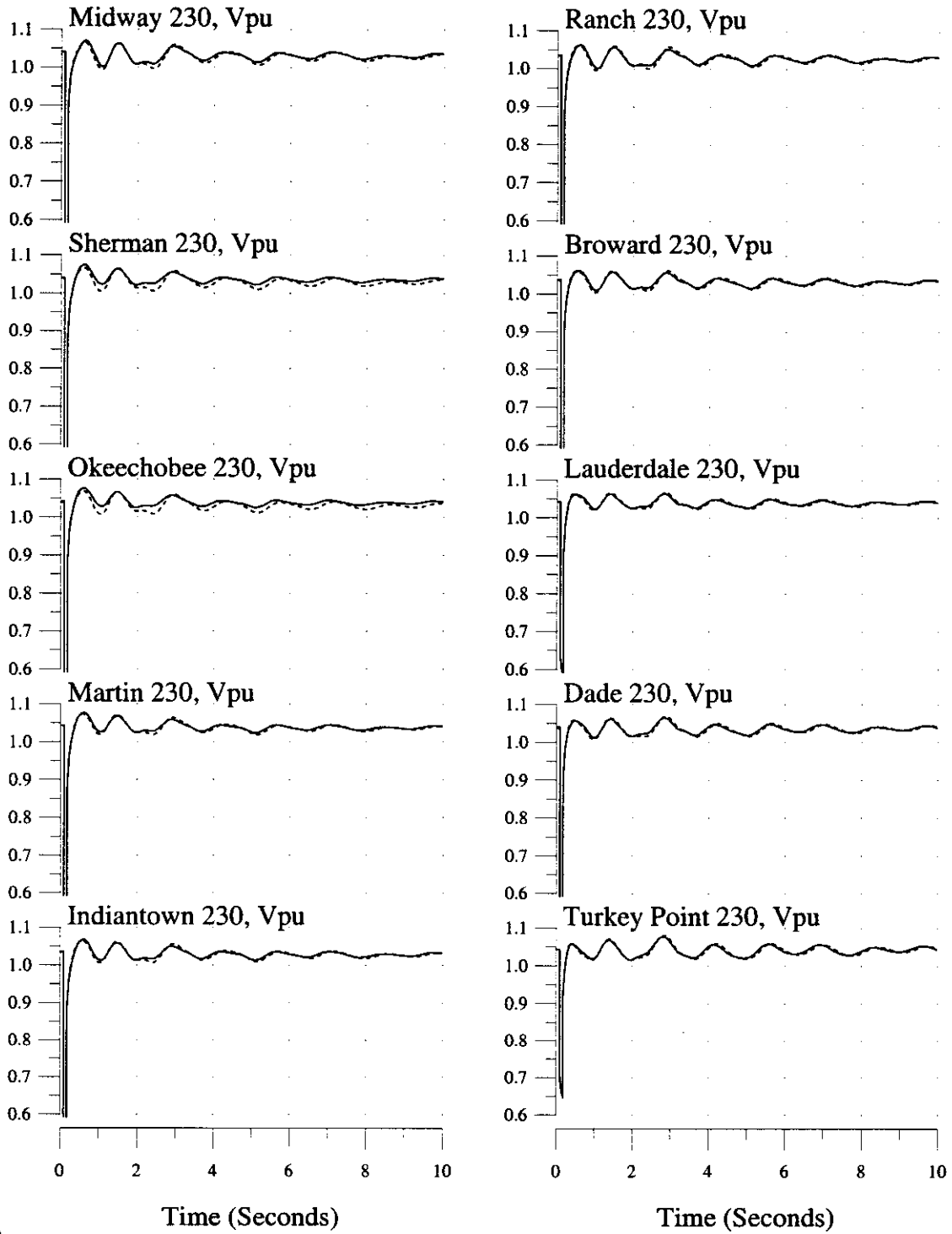
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



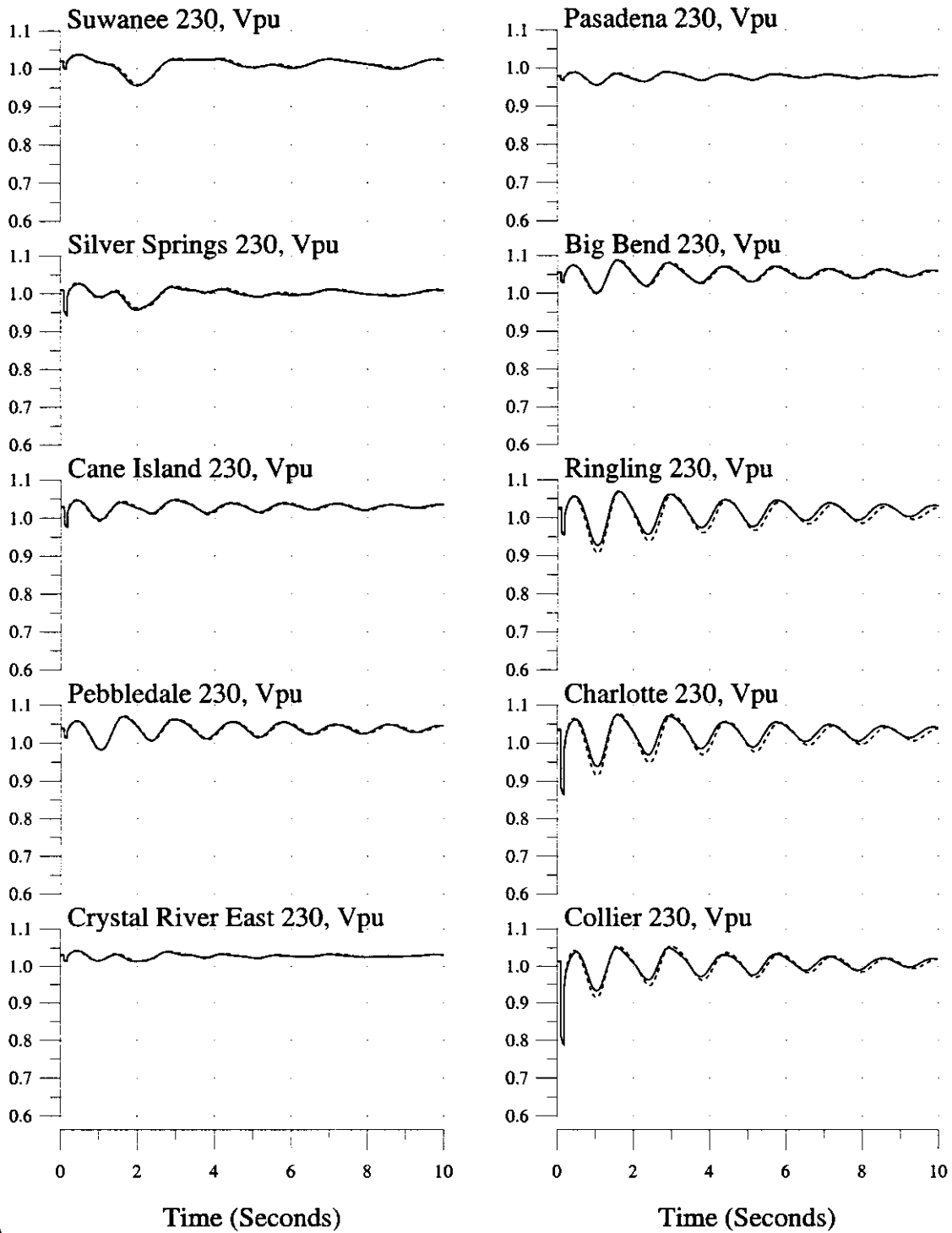
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



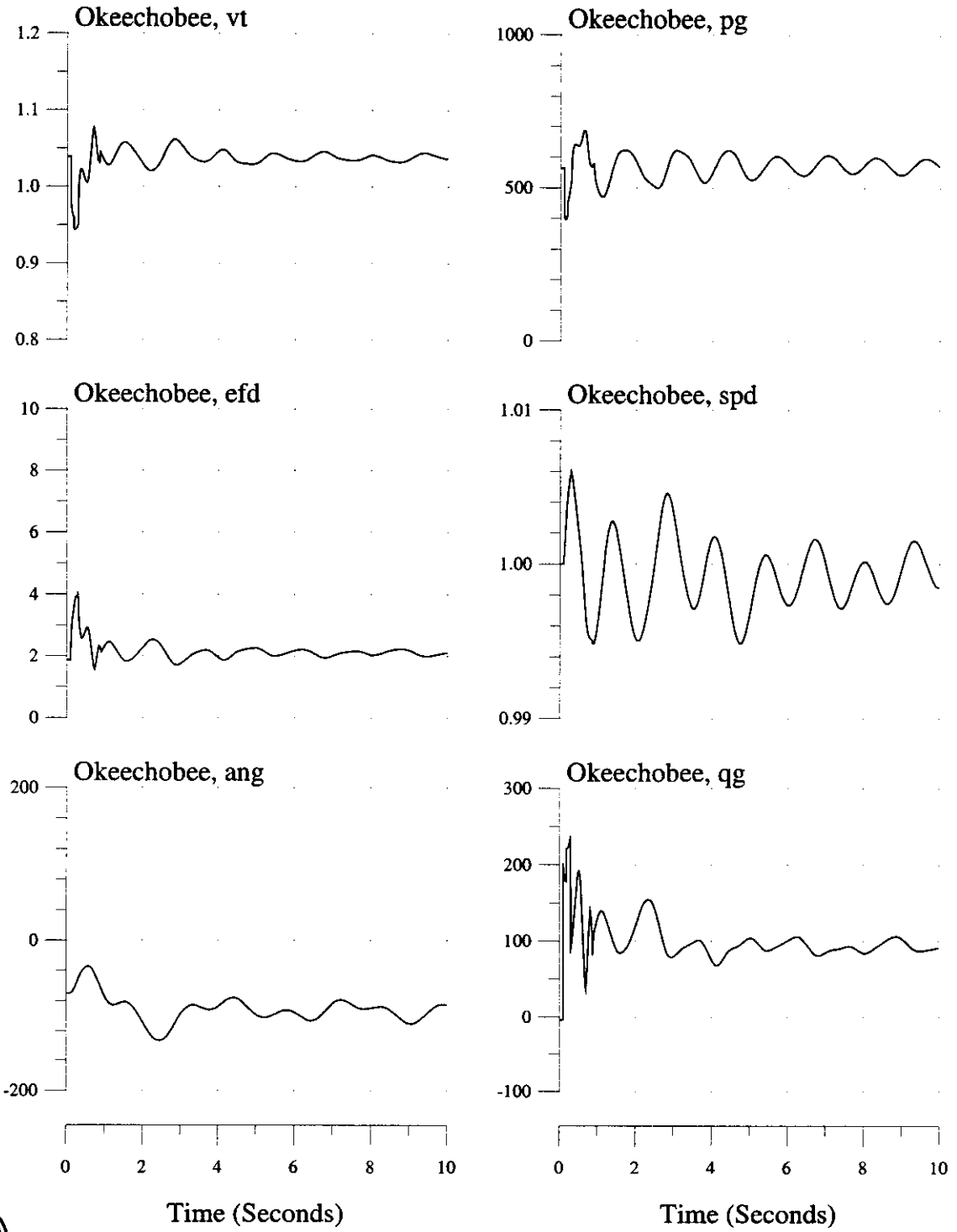
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



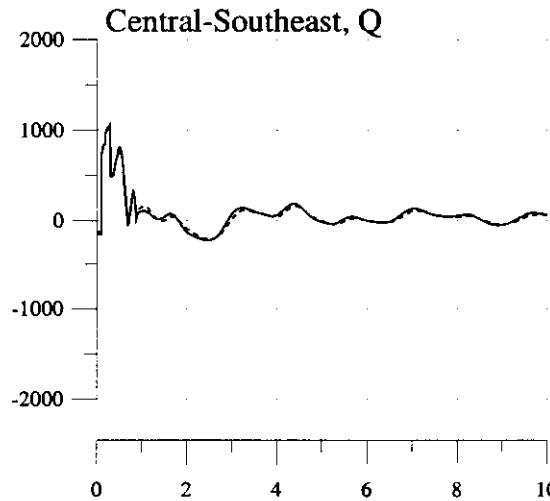
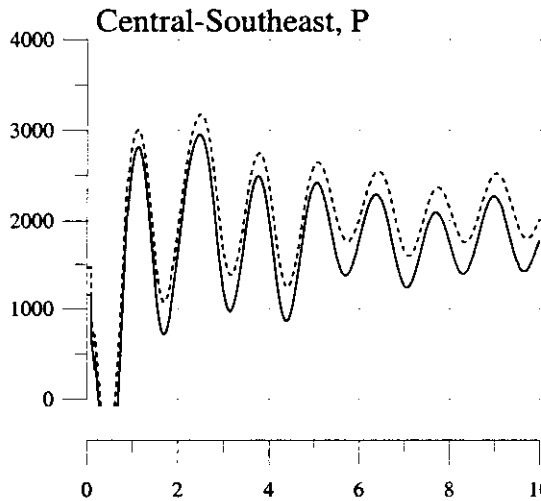
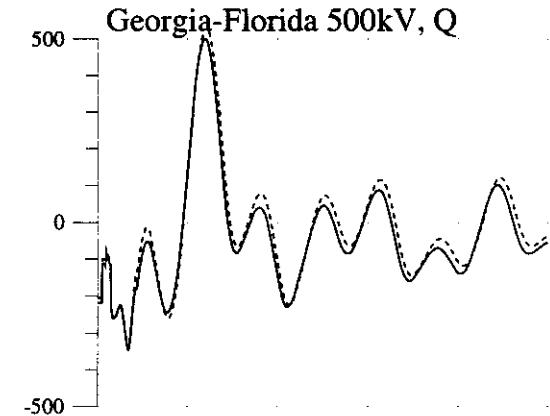
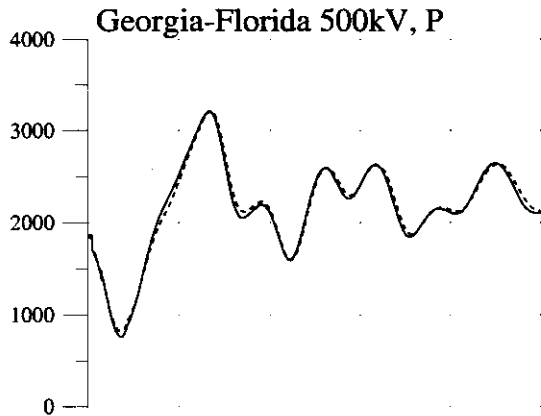
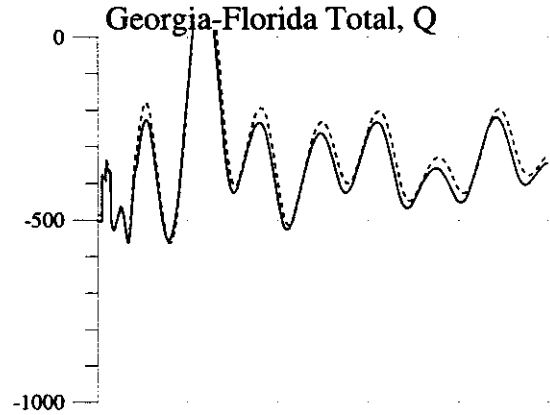
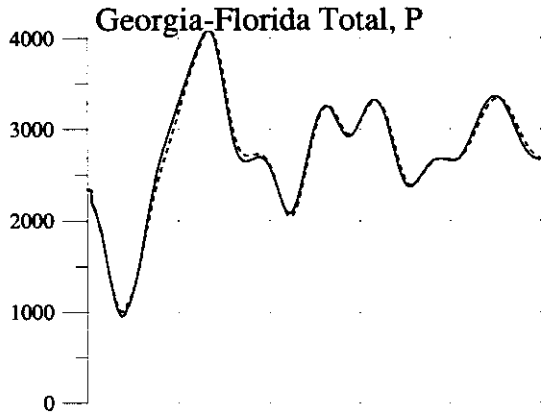
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy-  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee TEC Dispatch, (...) Without



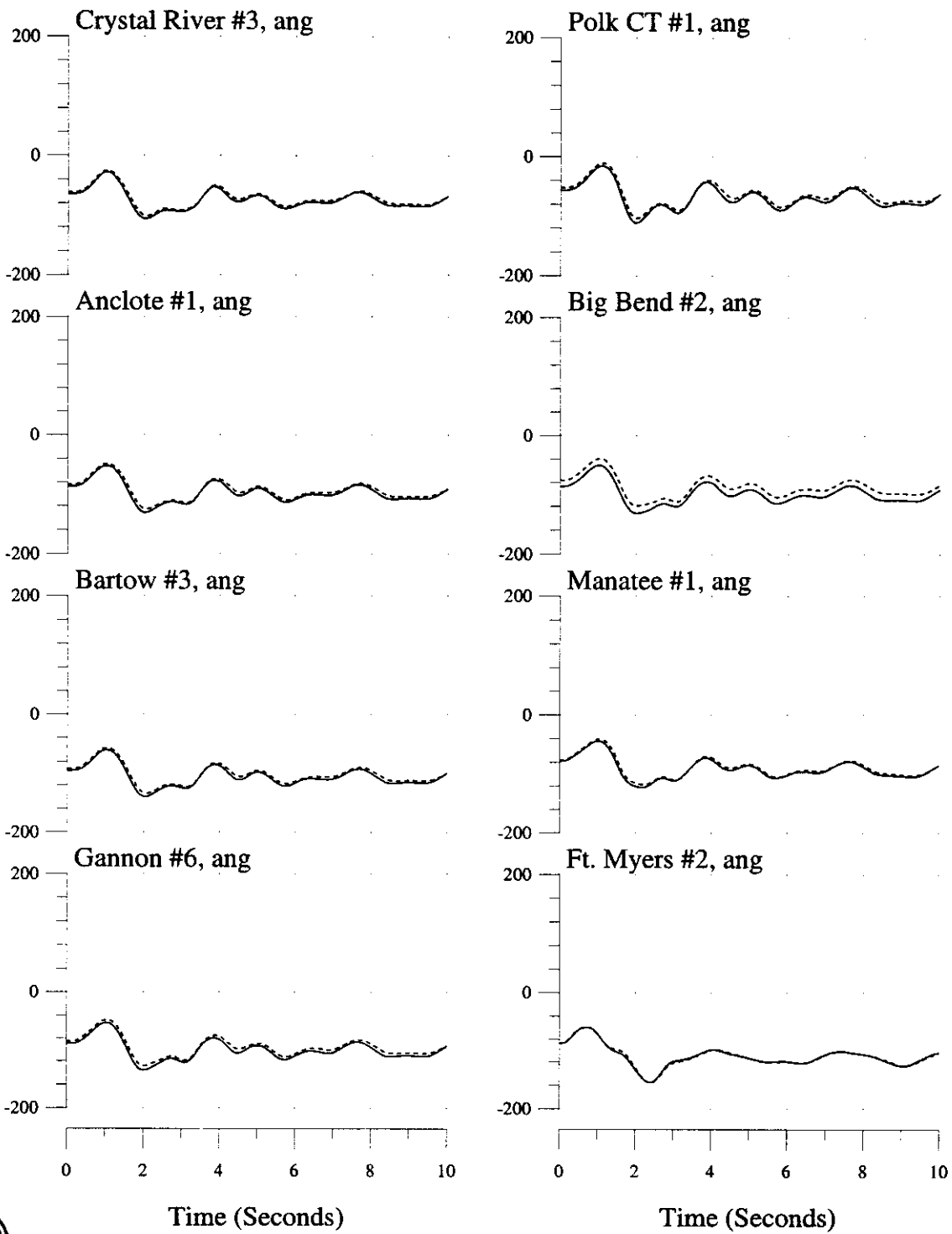
Time (Seconds)

Time (Seconds)



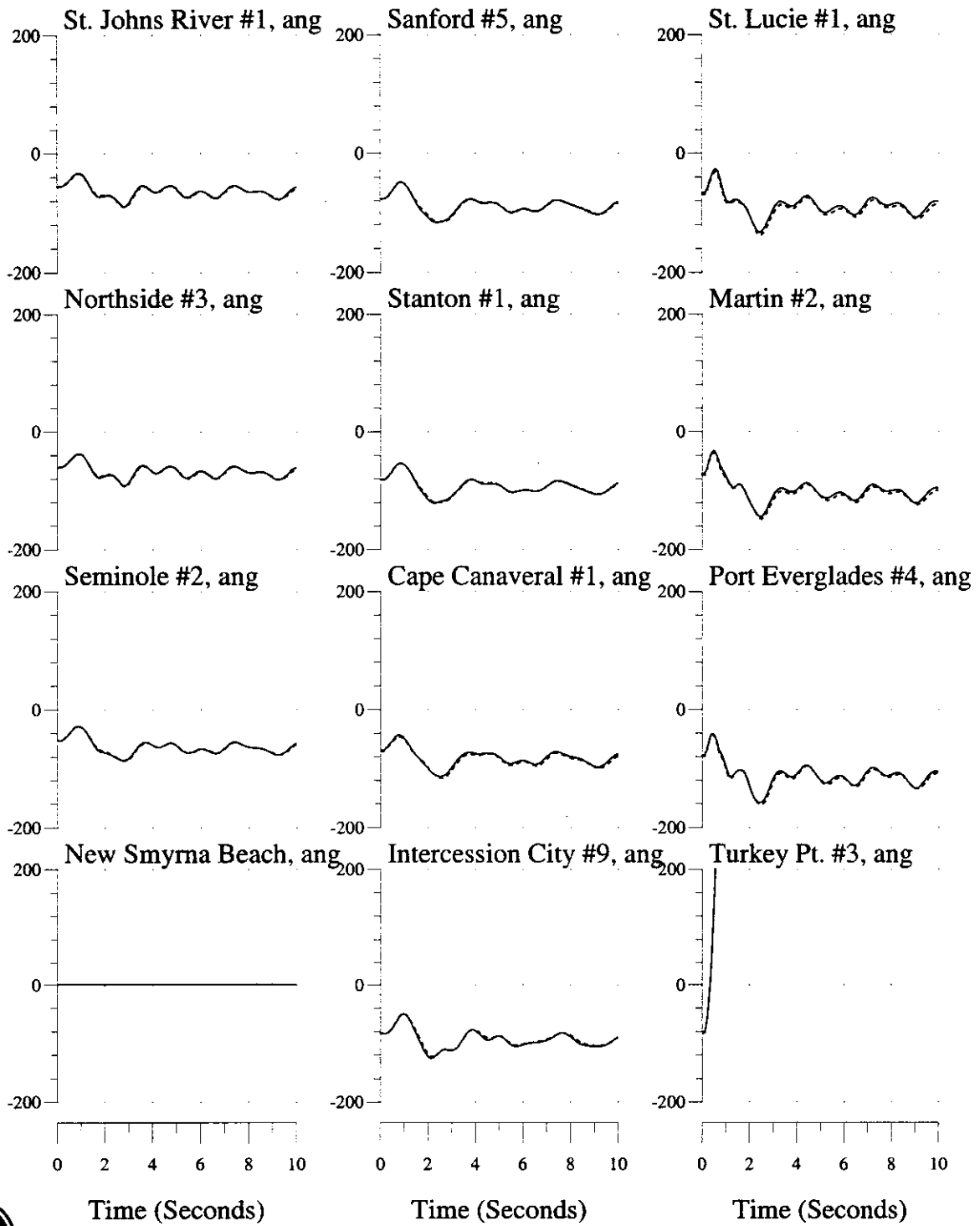
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine Variables: (—) With Okeechobee TEC Dispatch, (...) Without



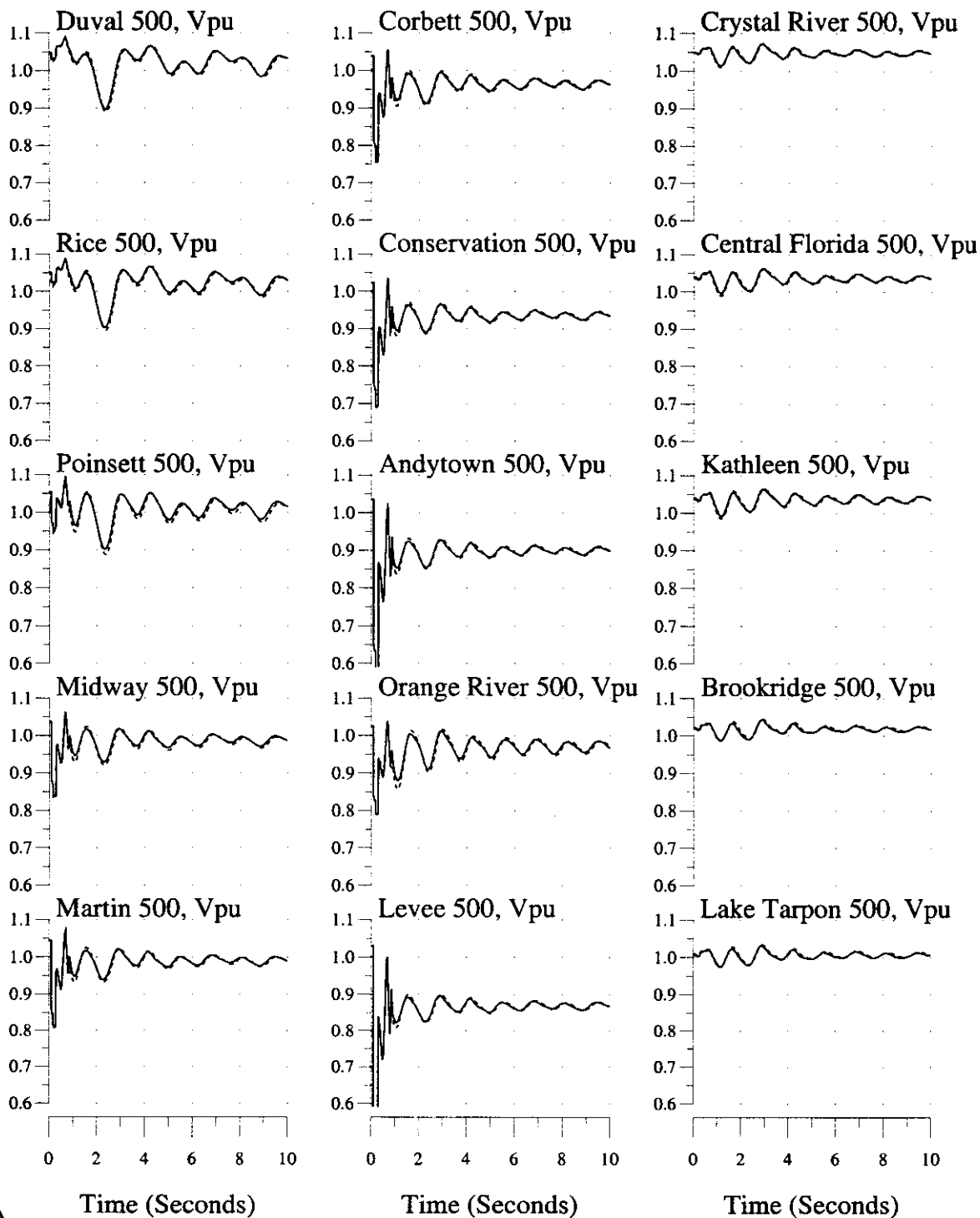
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy-  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without



# 3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy 2003 Winter System

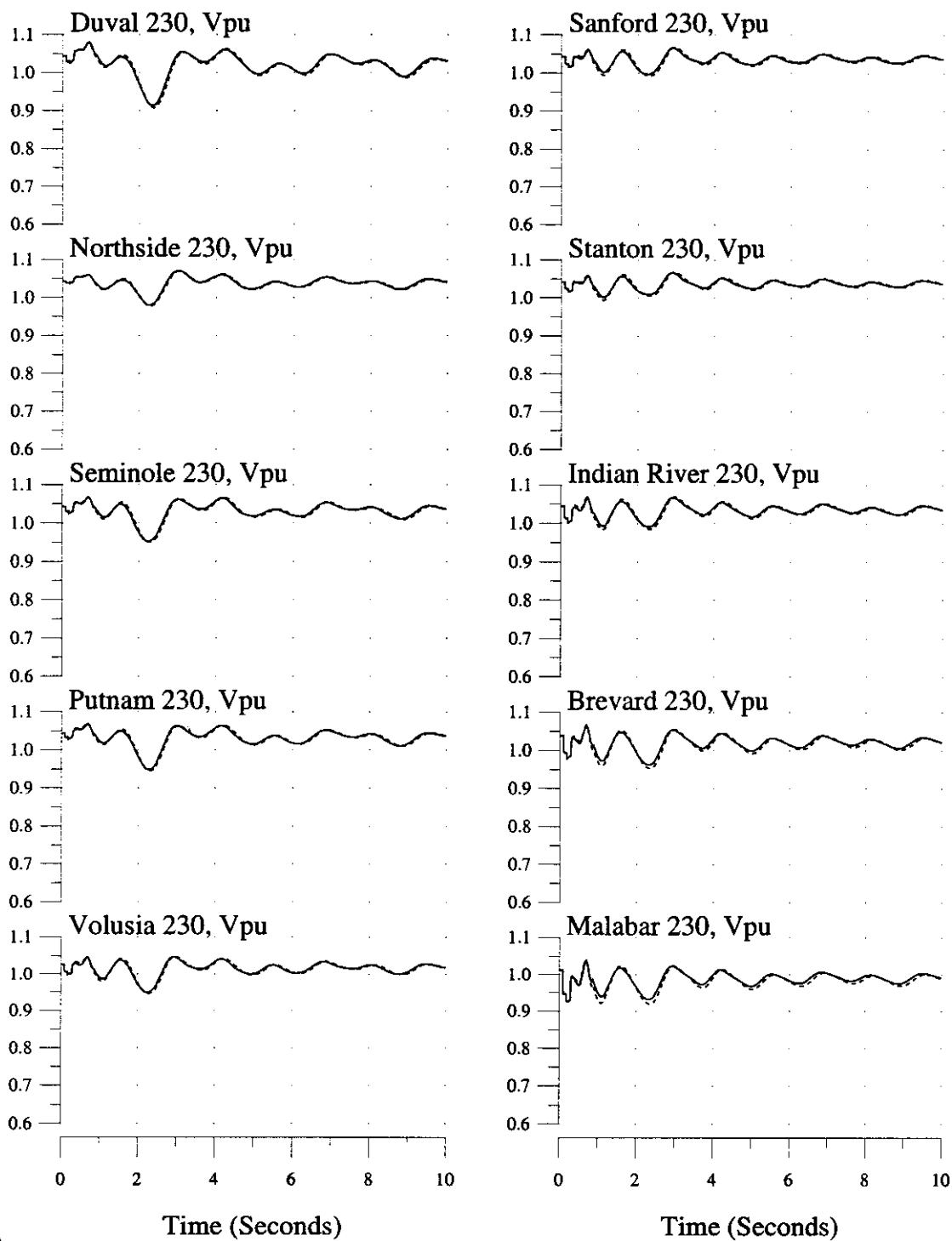
Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without





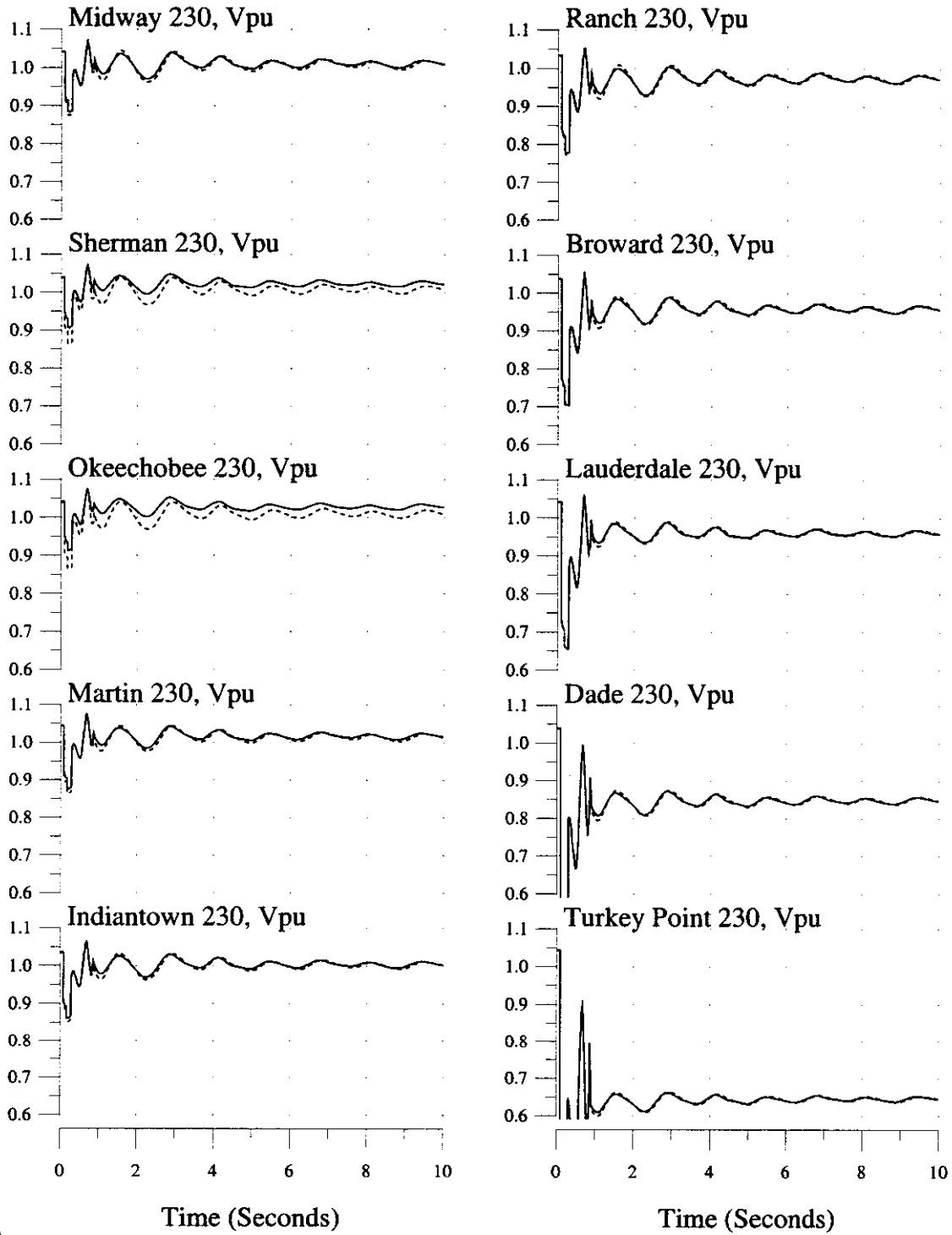
# 3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy- 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee TEC Dispatch, (...) Without



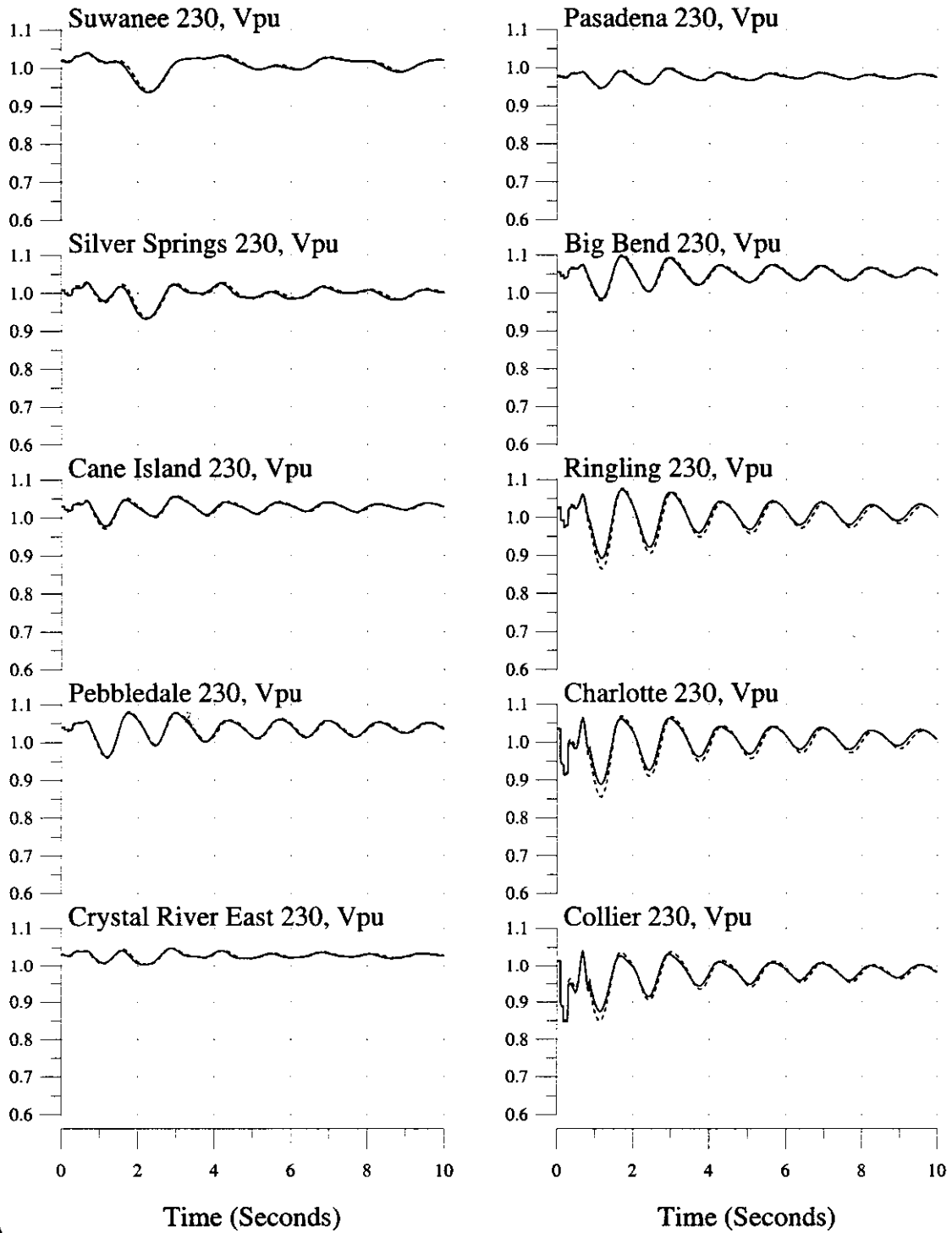
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without



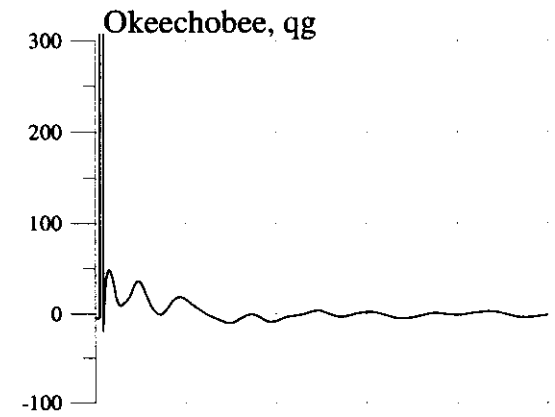
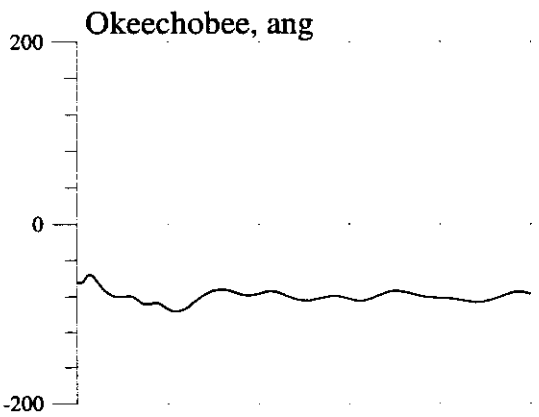
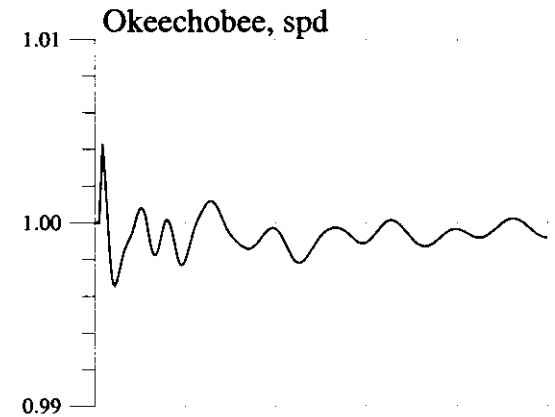
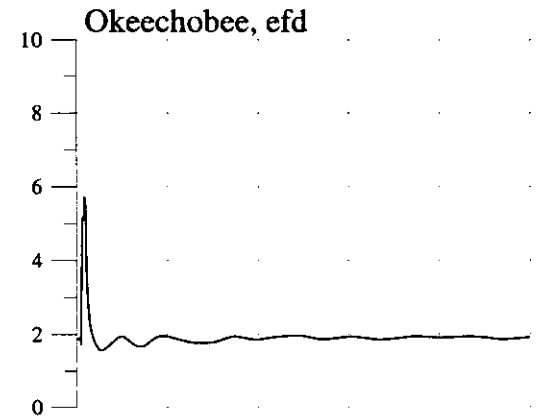
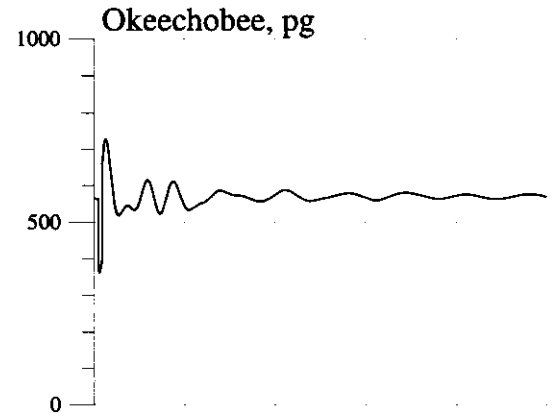
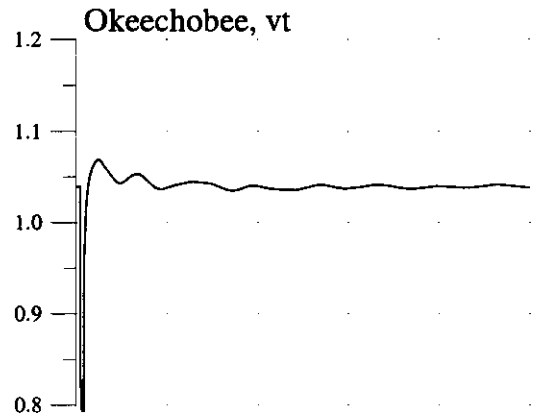
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy-  
2003 Winter System

Bus Variables: (—) With Okeechobee TEC Dispatch, (...) Without





3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System  
 Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



0 2 4 6 8 10

0 2 4 6 8 10

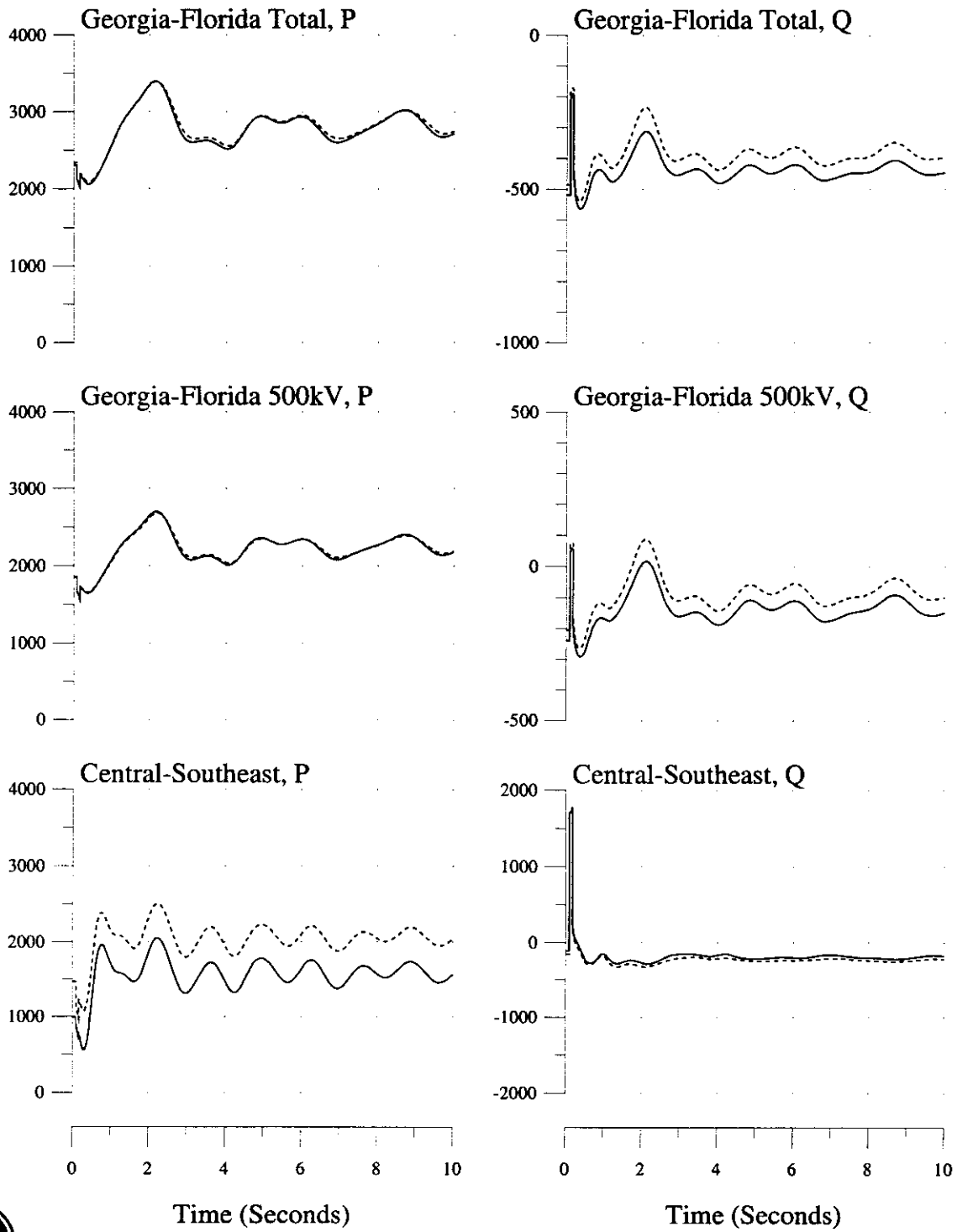
Time (Seconds)

Time (Seconds)



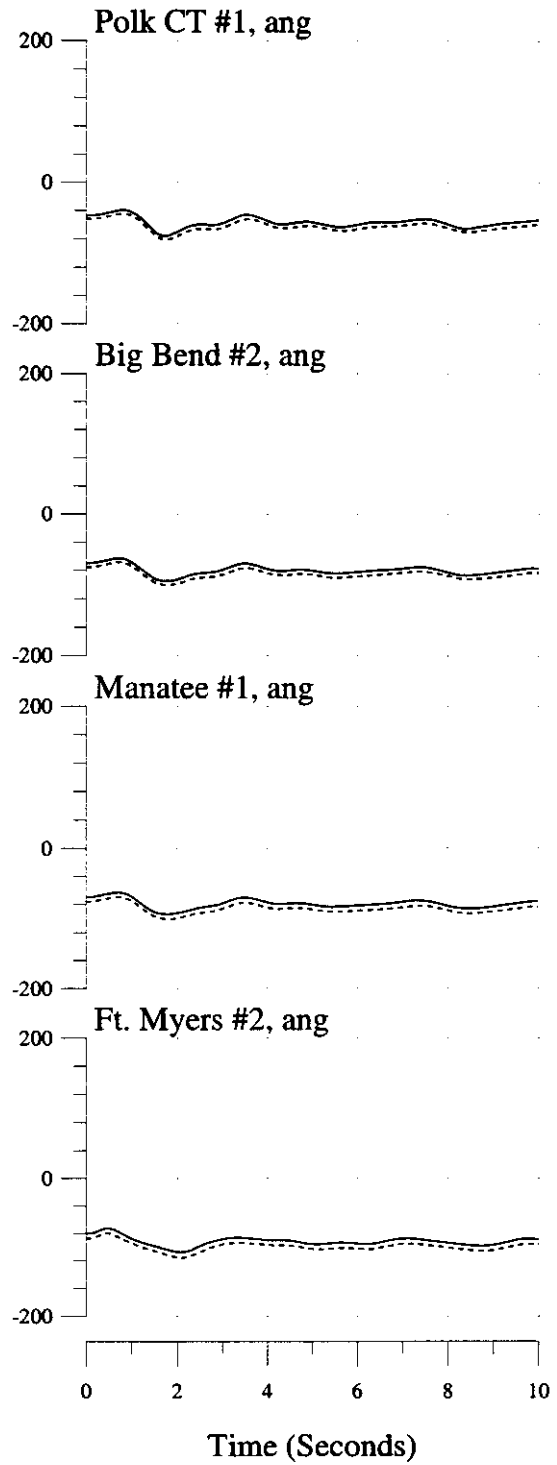
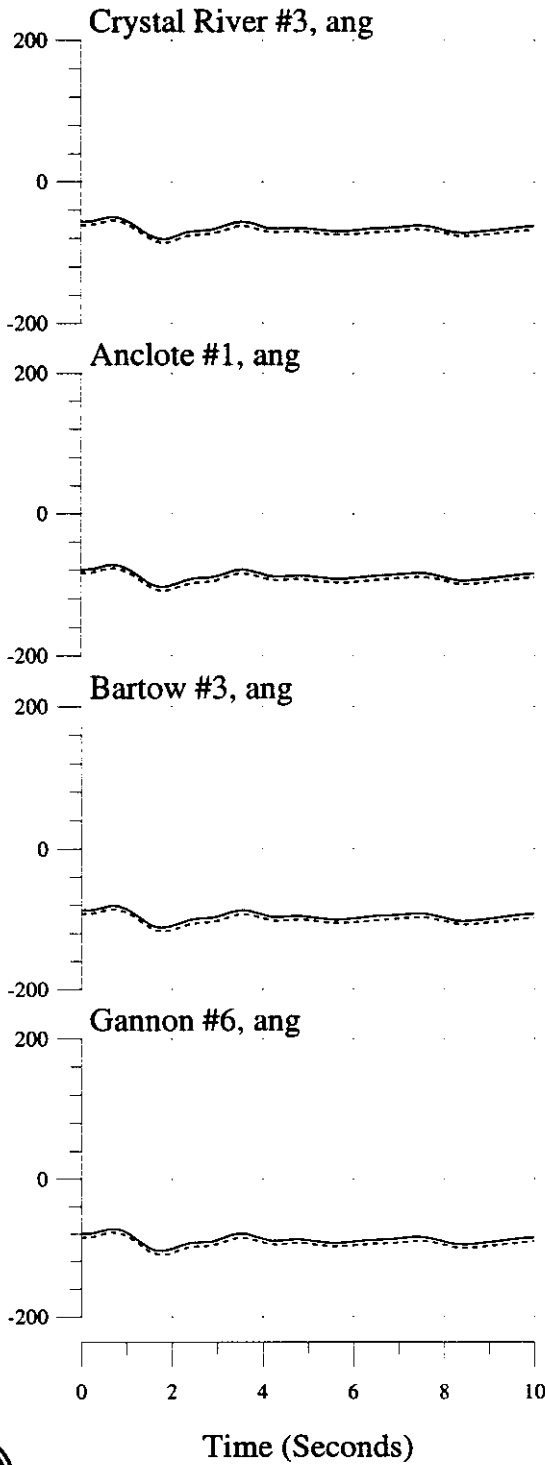
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



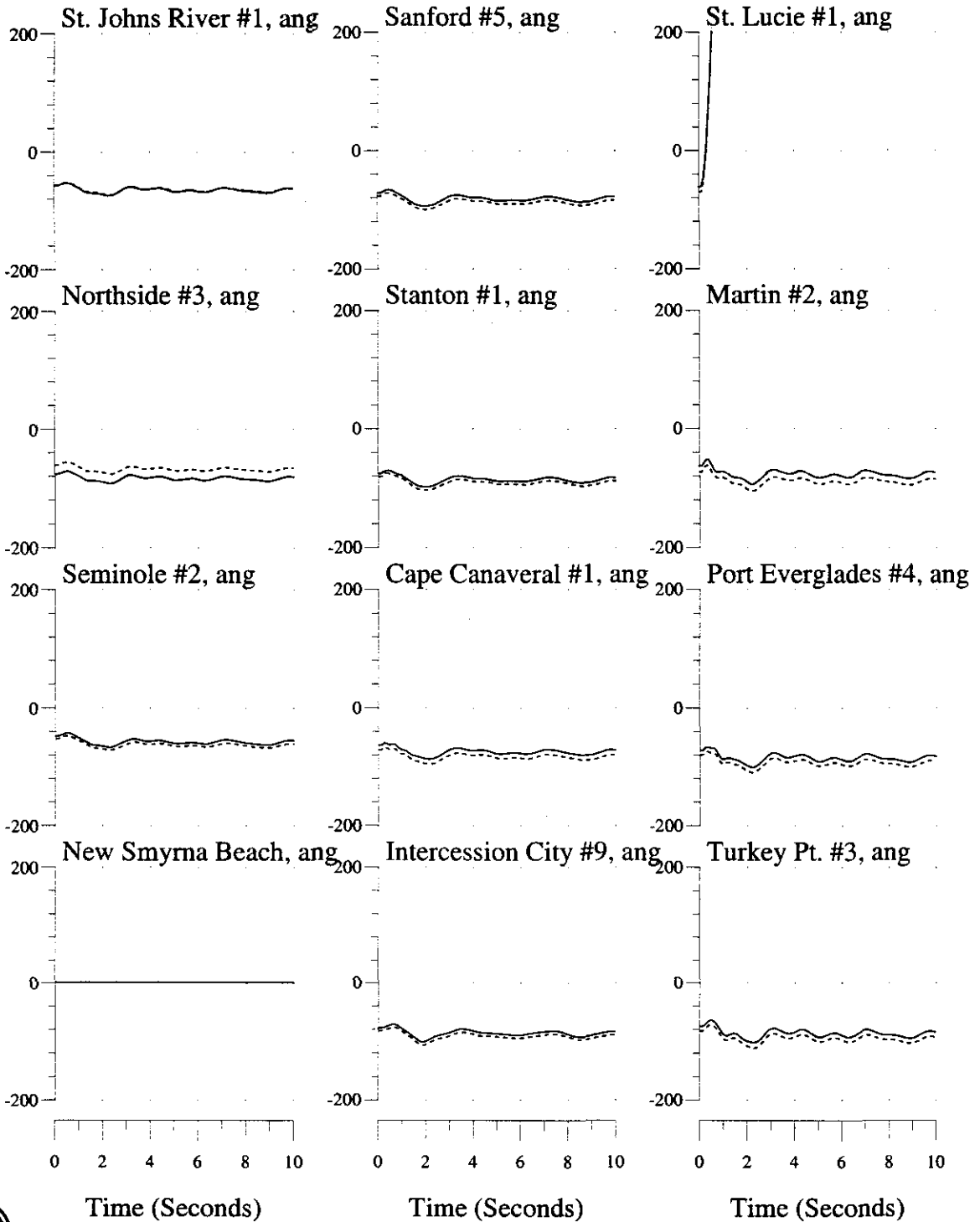
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

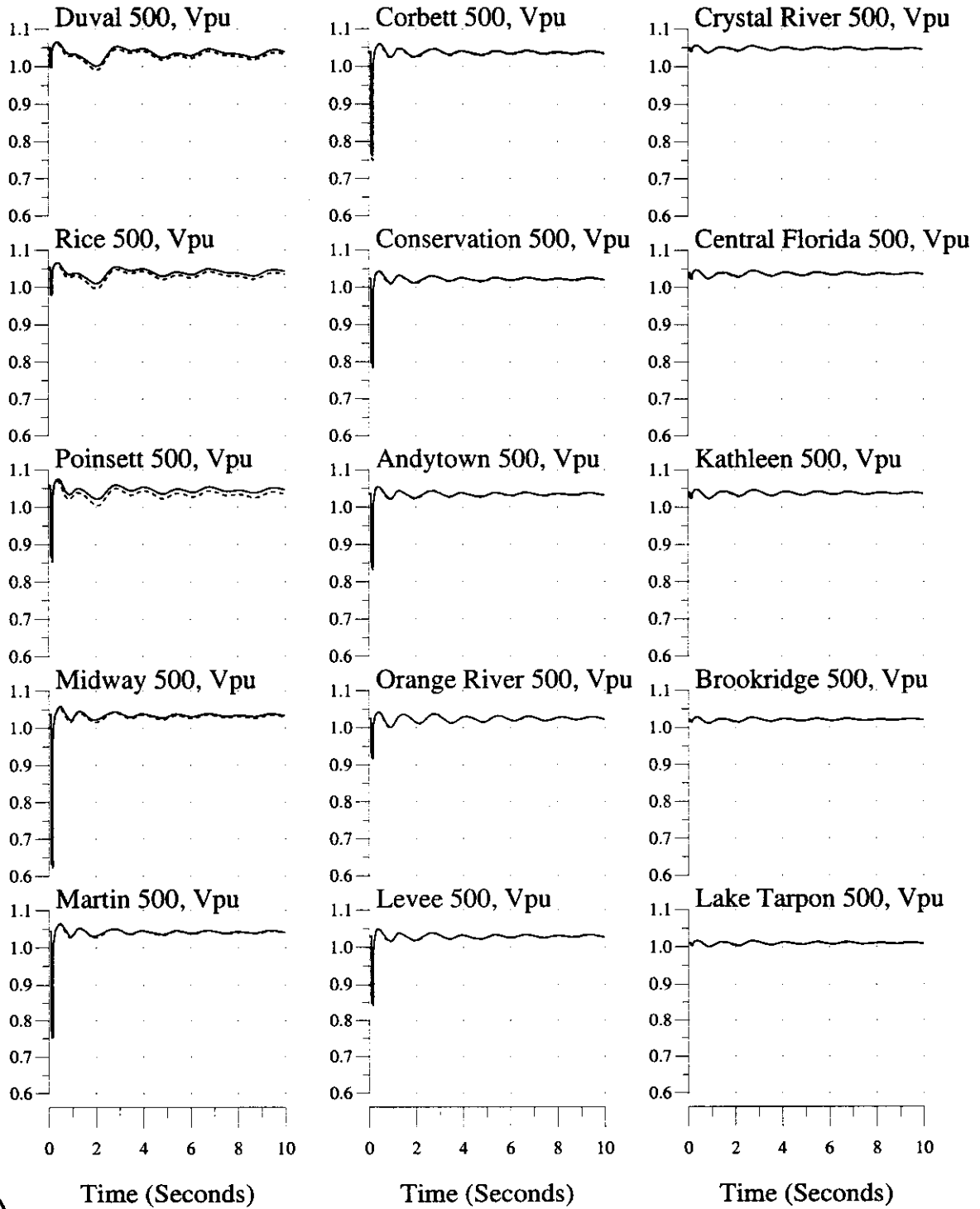
Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without





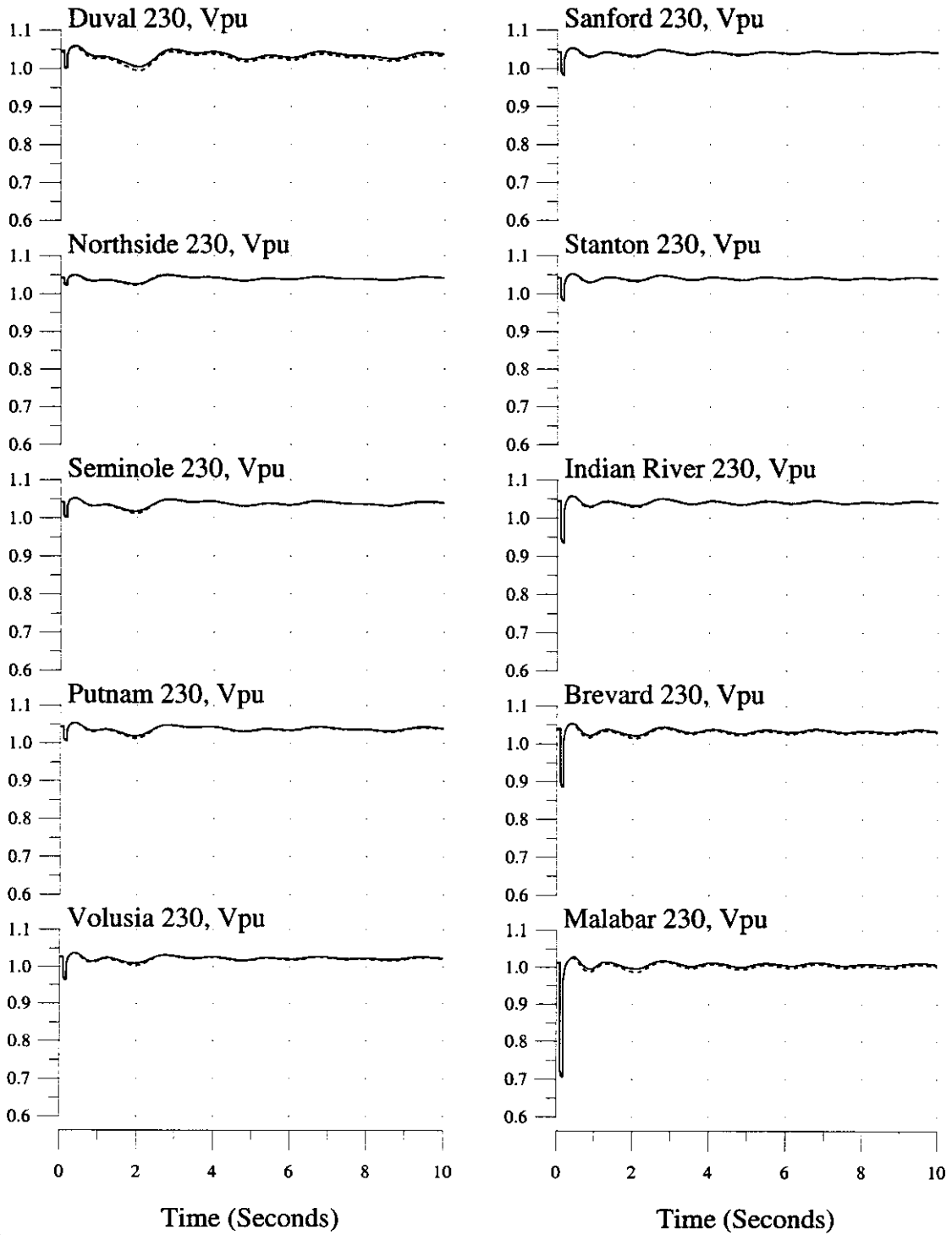
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



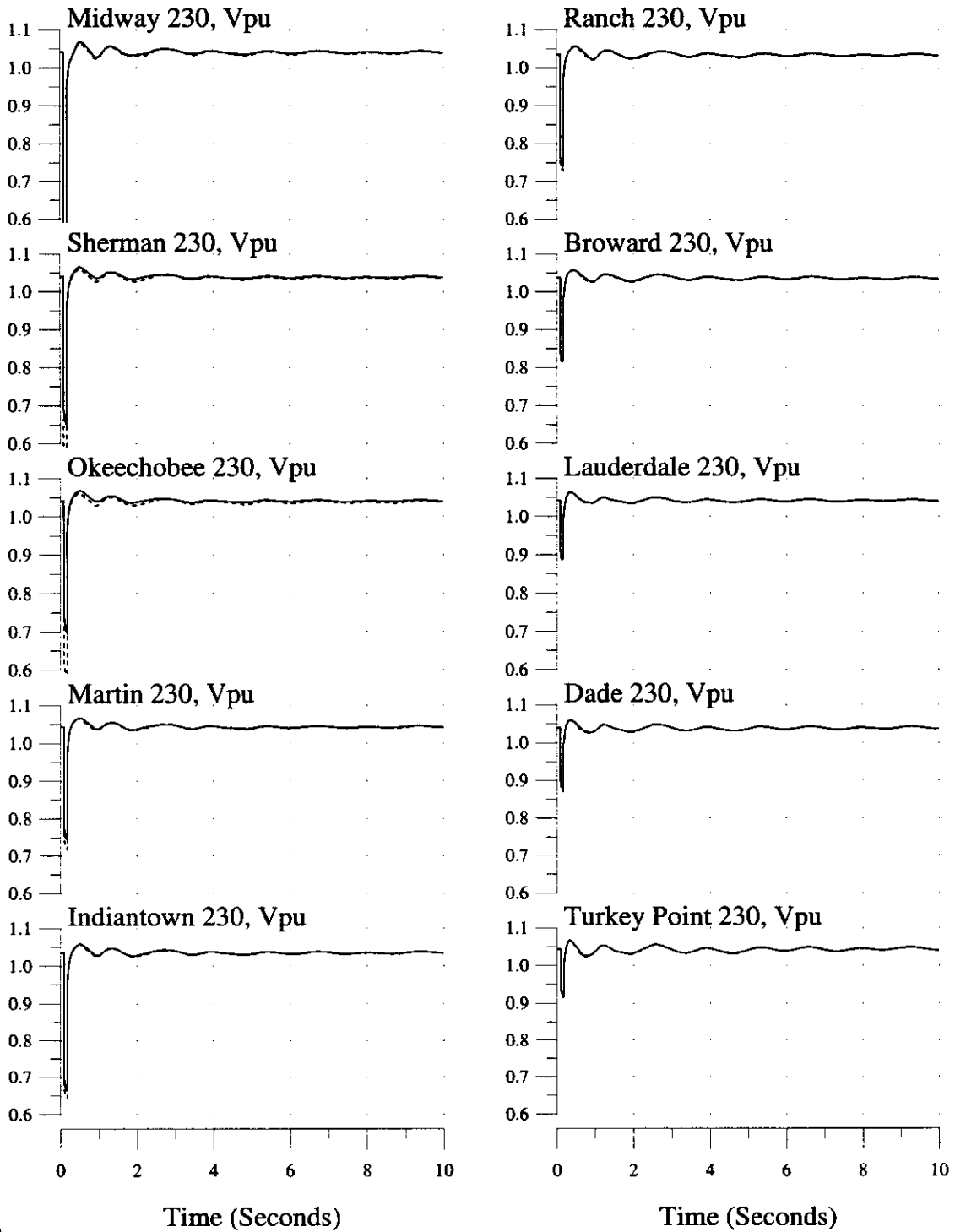
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



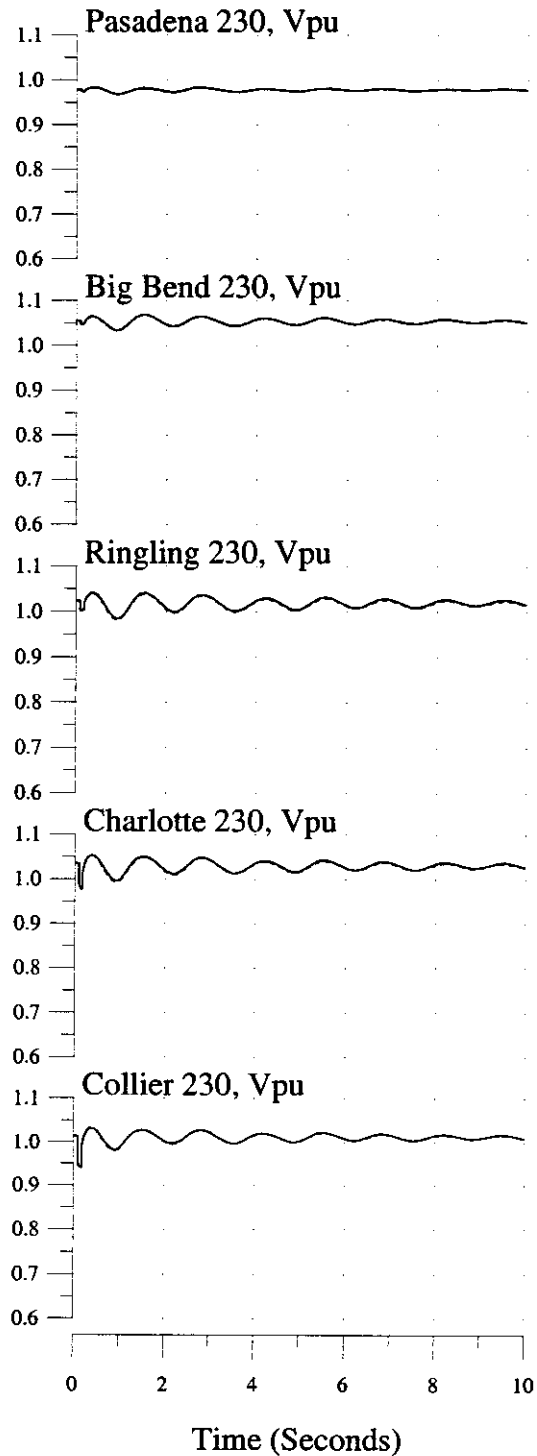
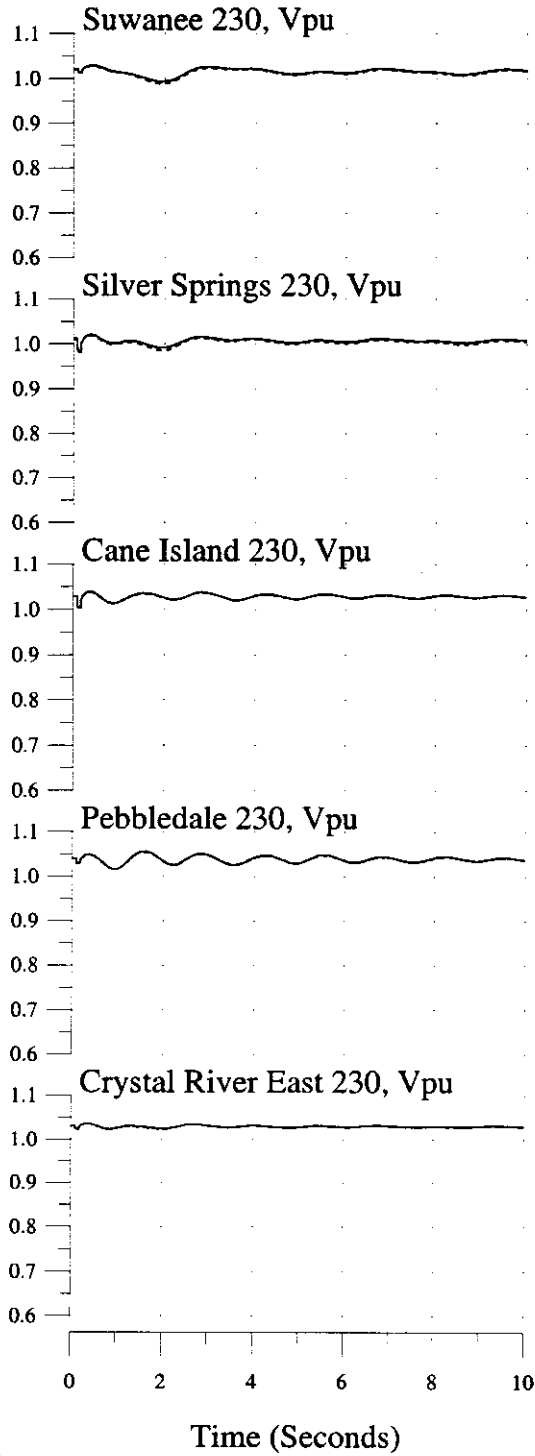
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



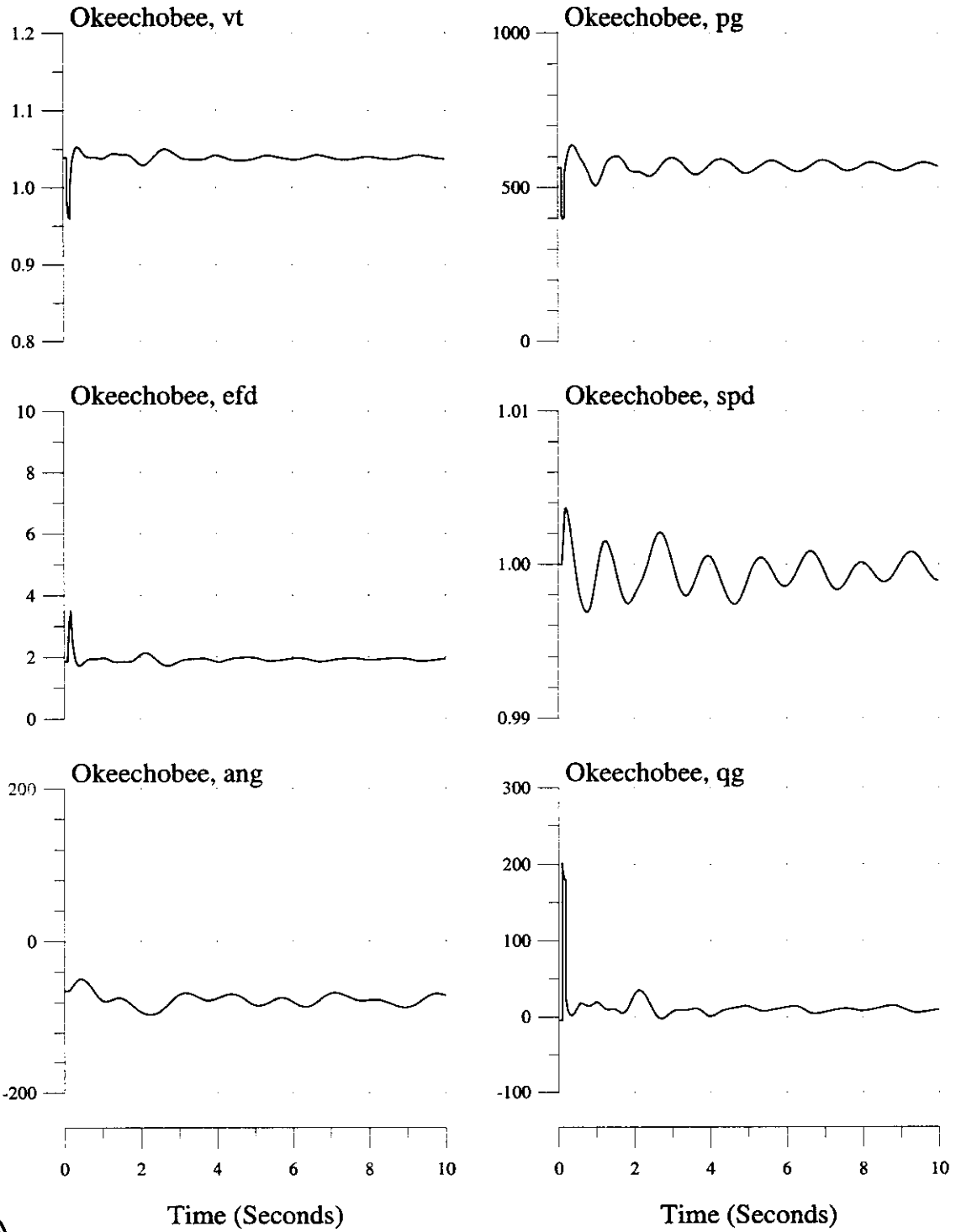
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



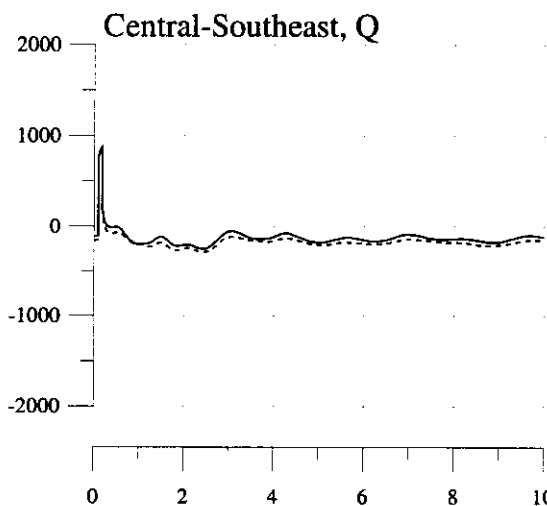
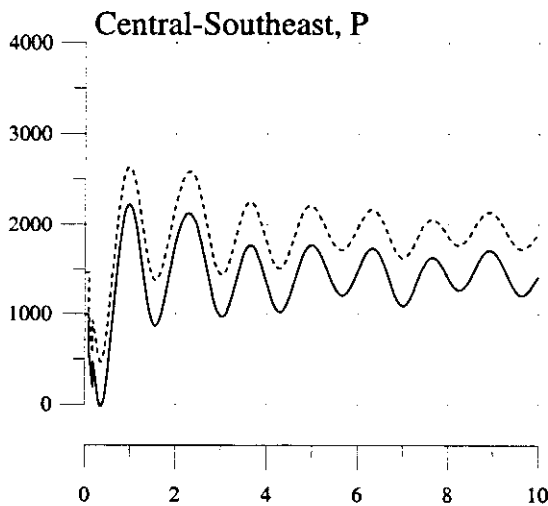
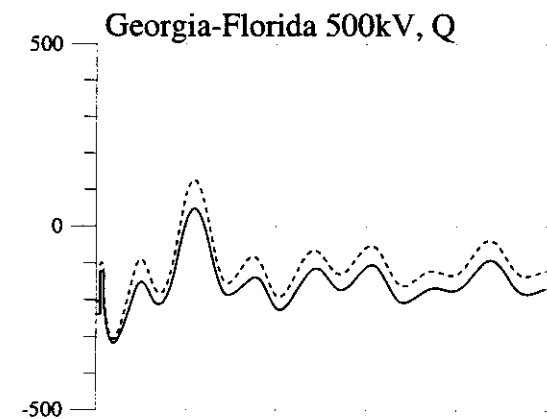
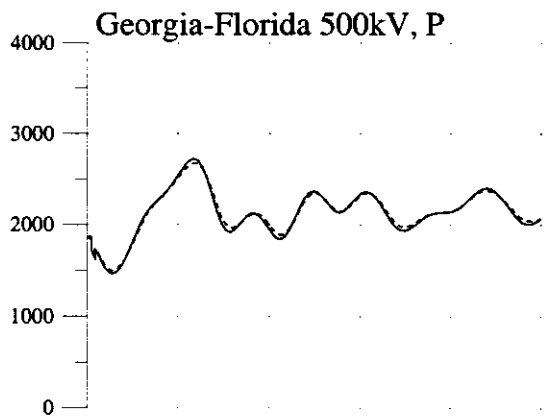
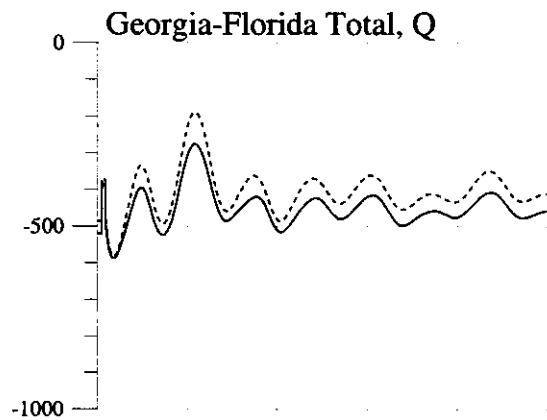
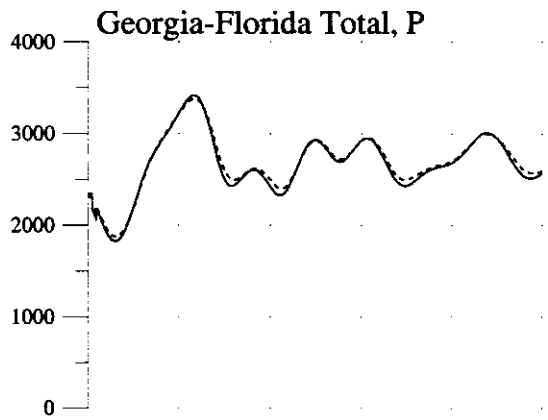
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



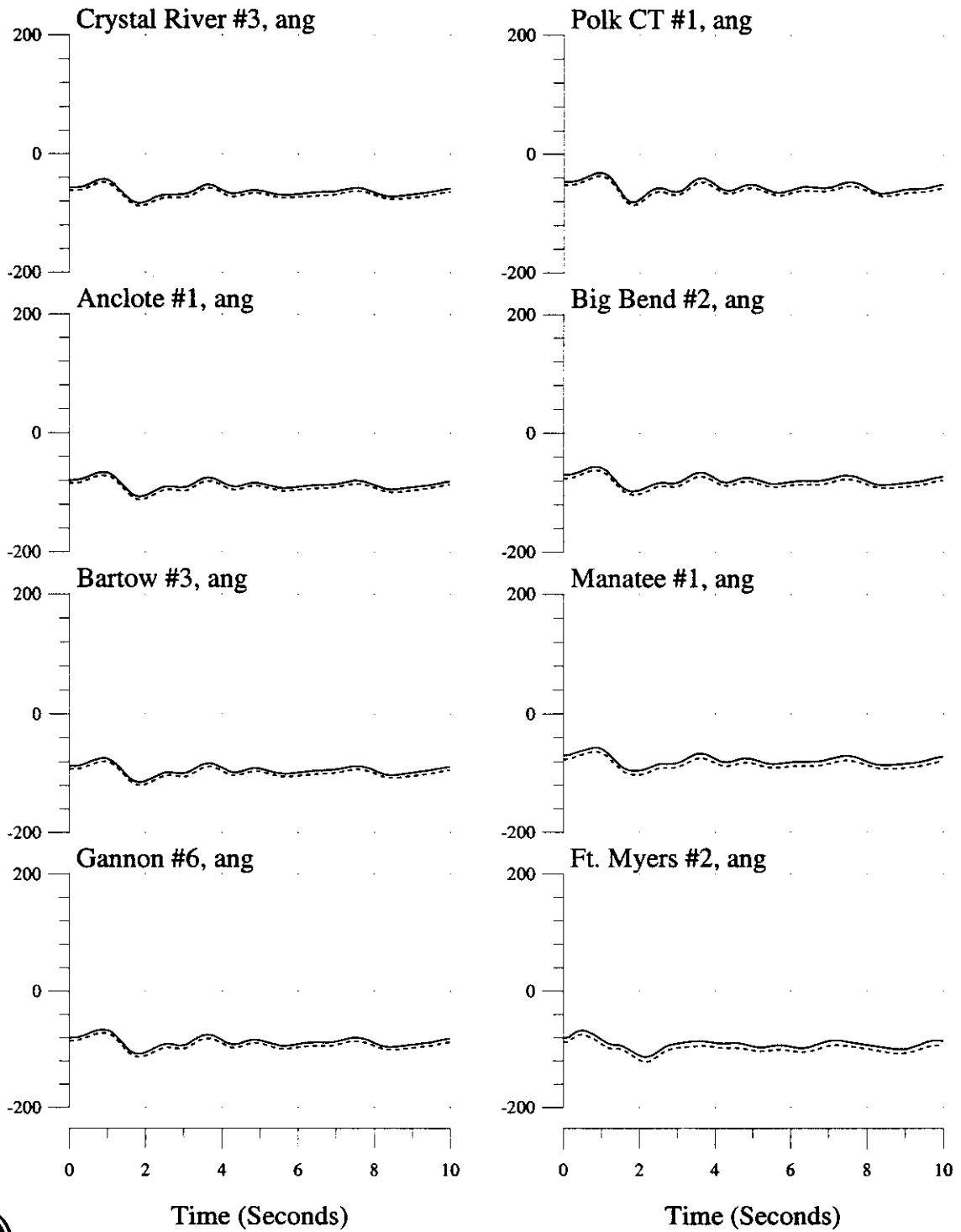
Time (Seconds)

Time (Seconds)



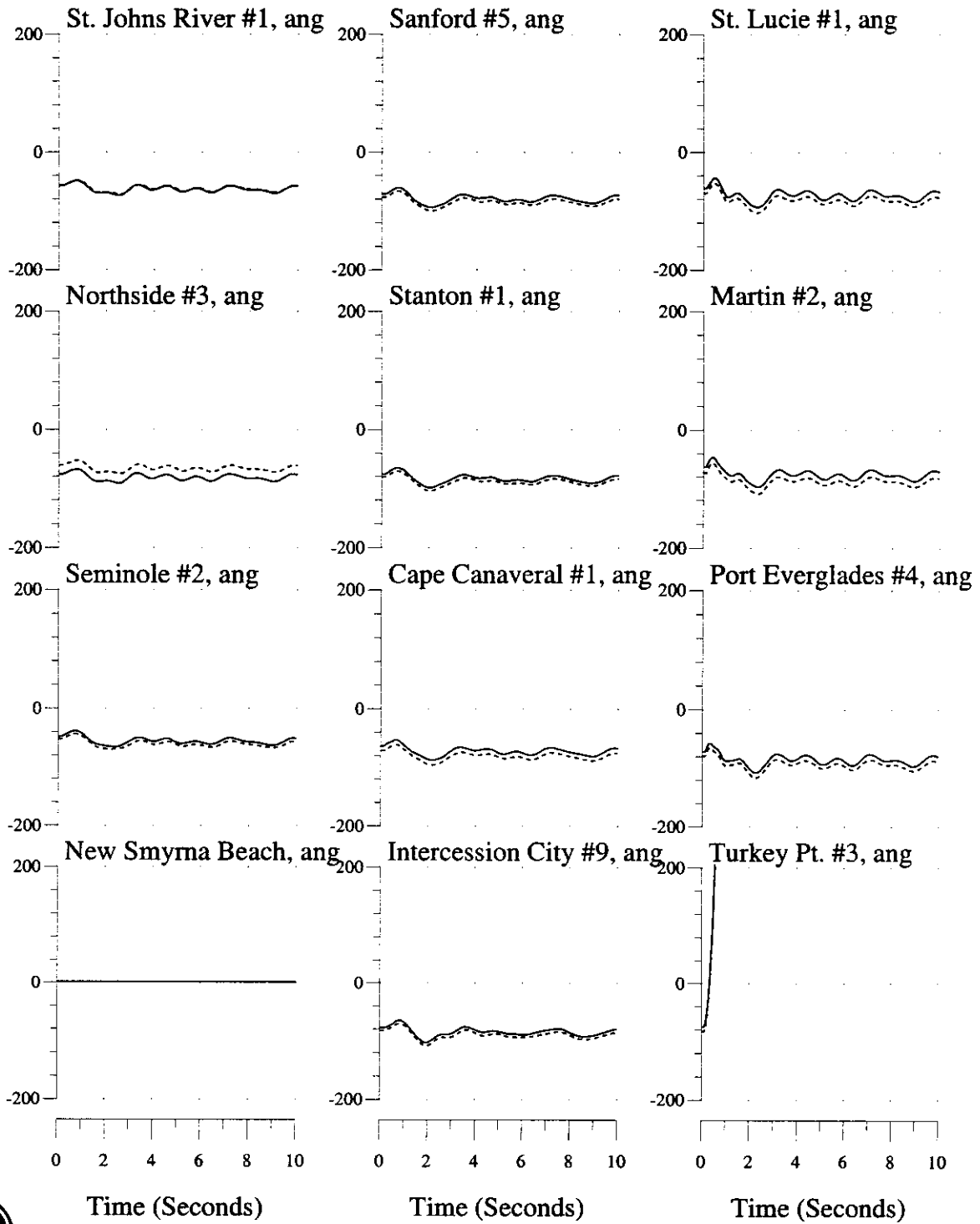
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

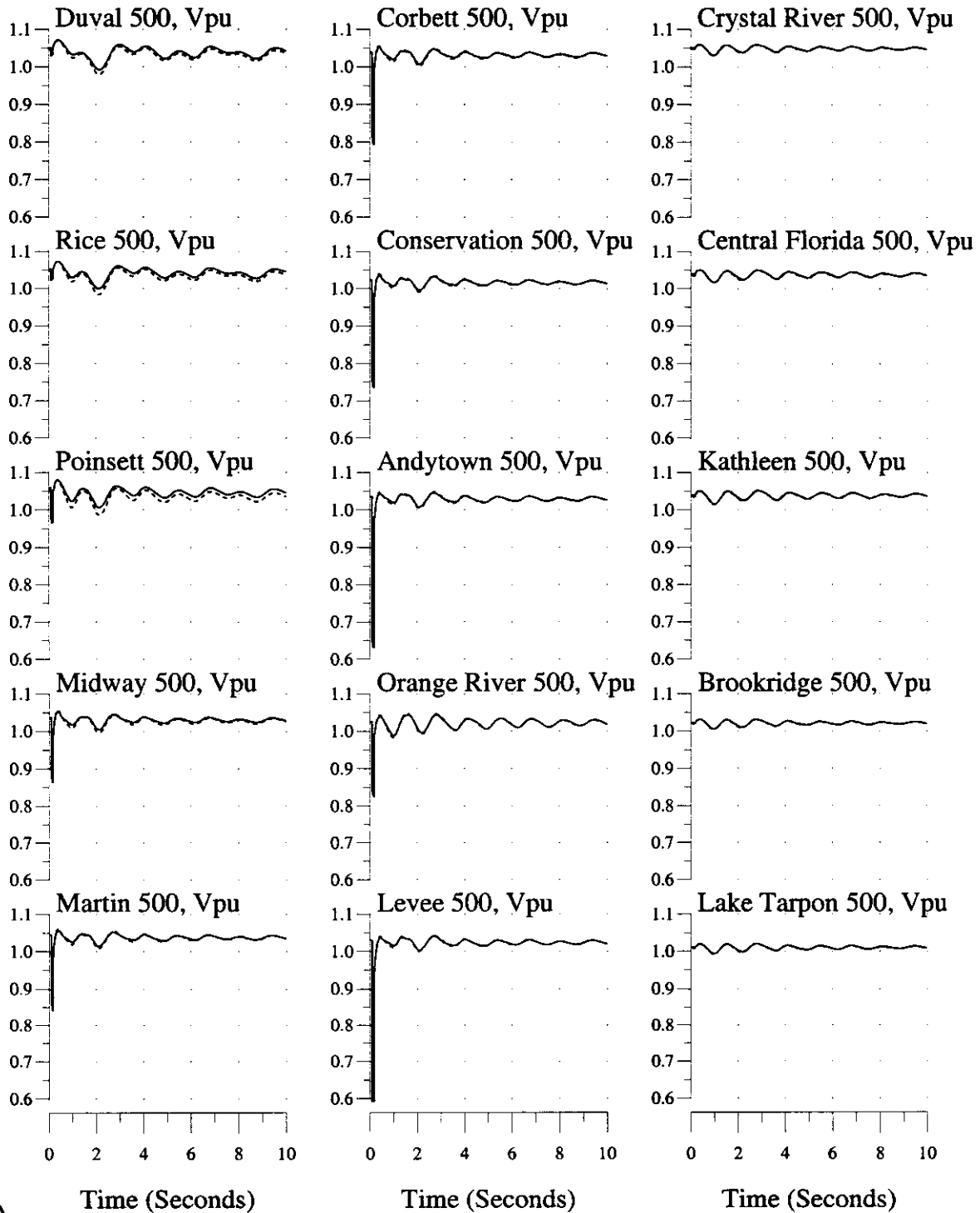
Machine Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without





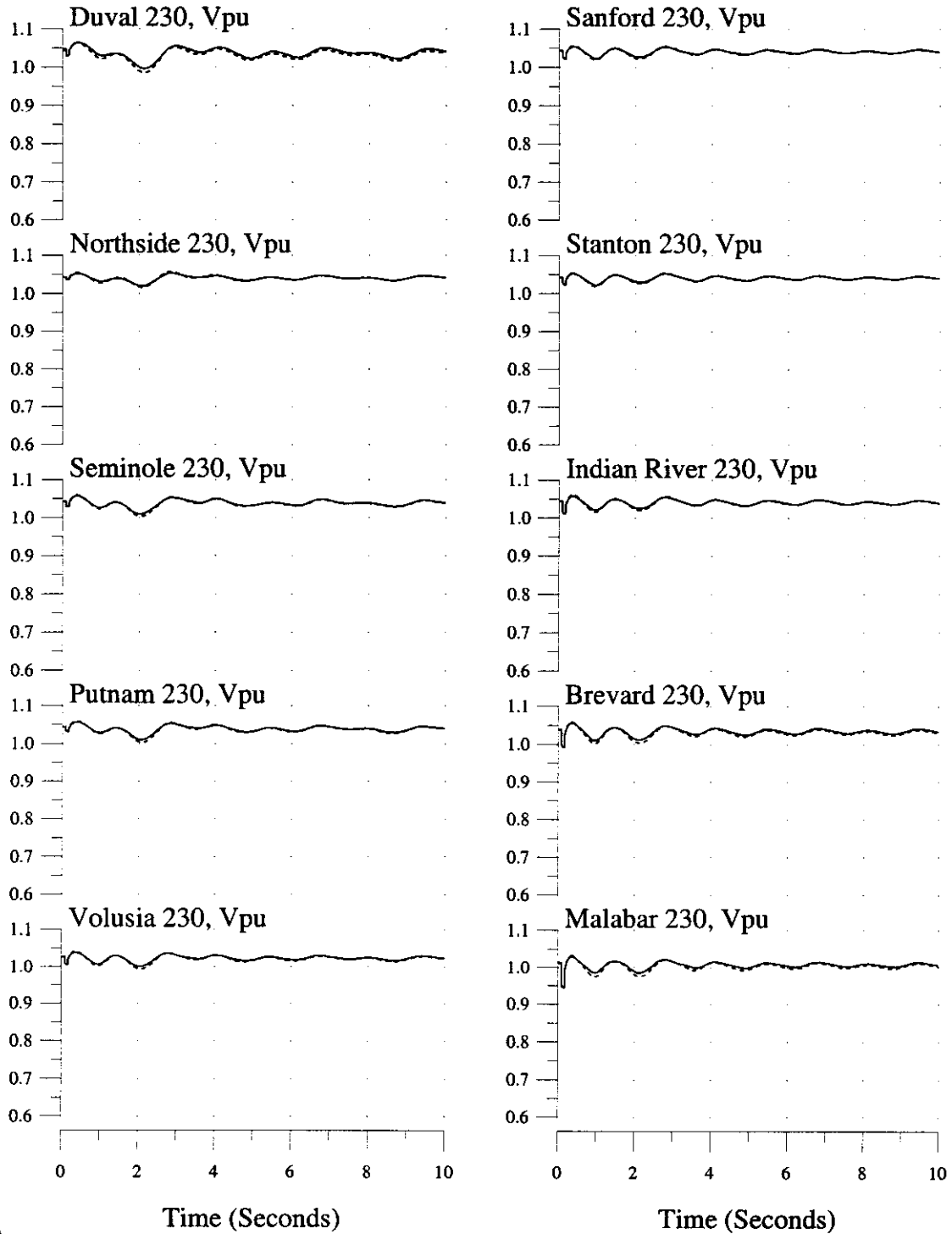
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



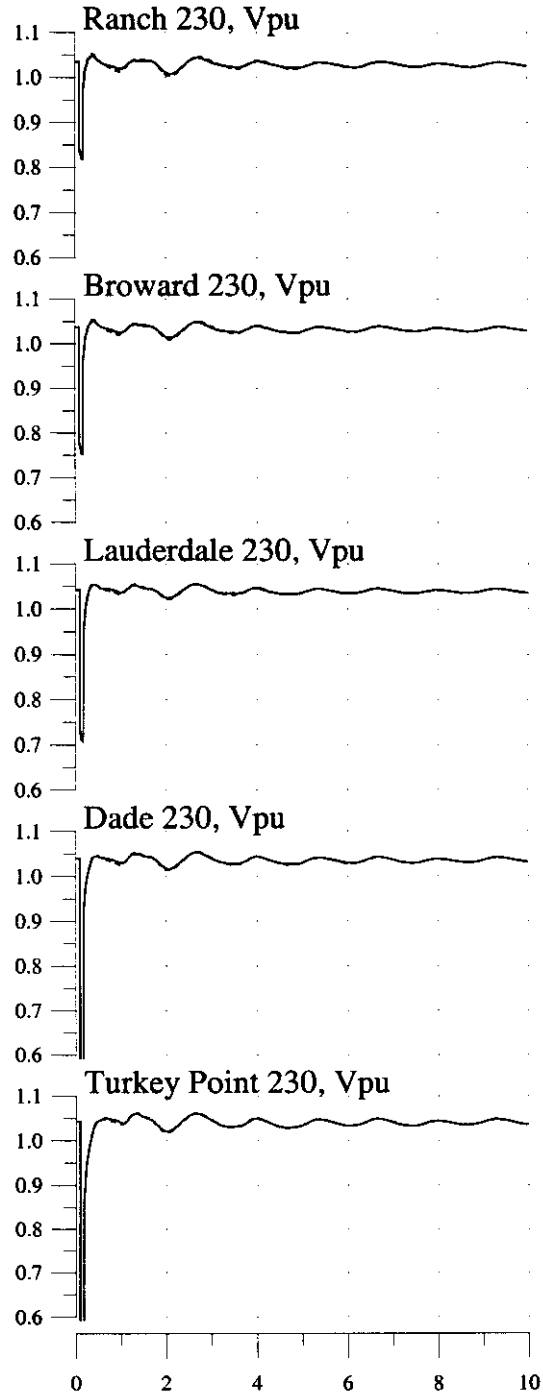
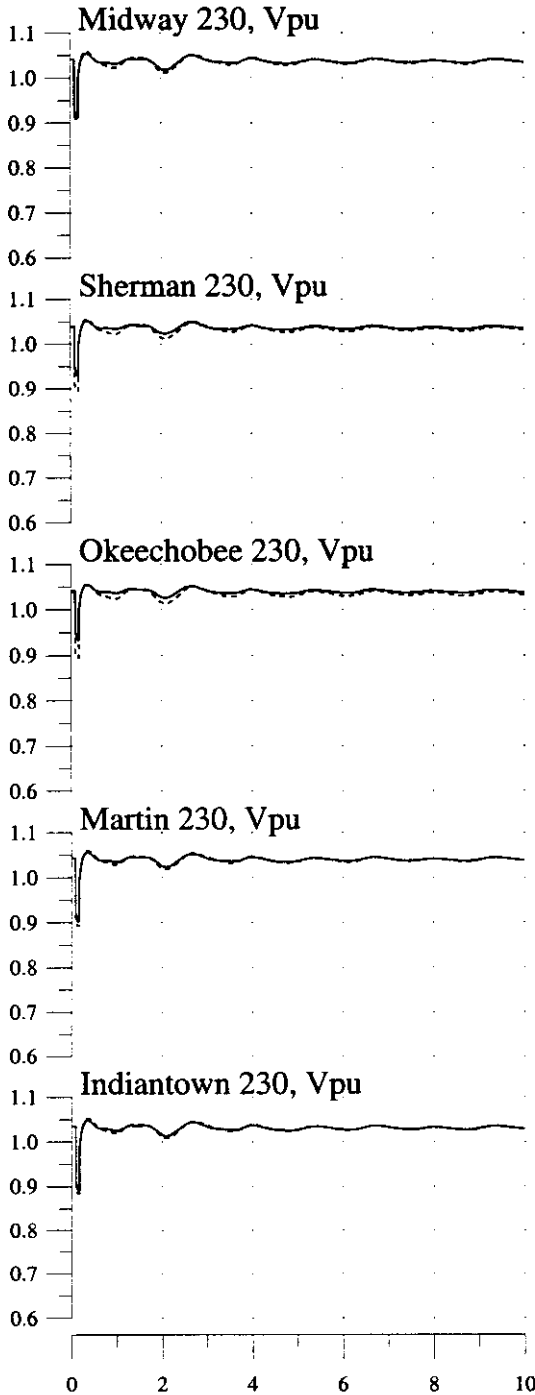
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



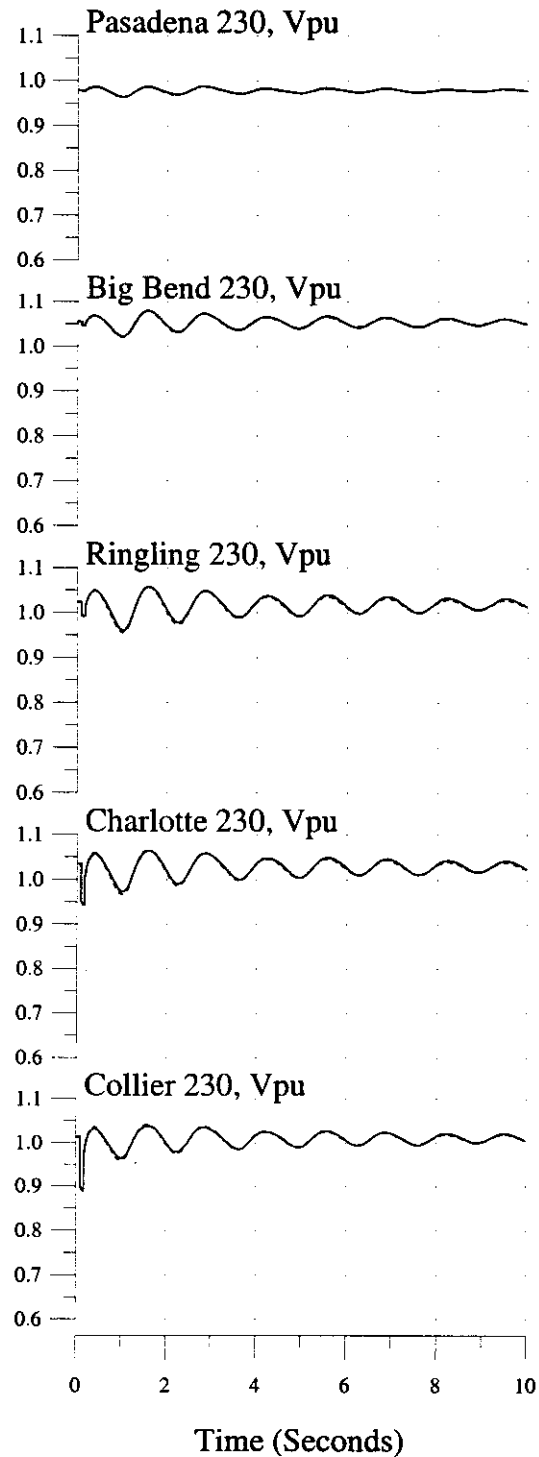
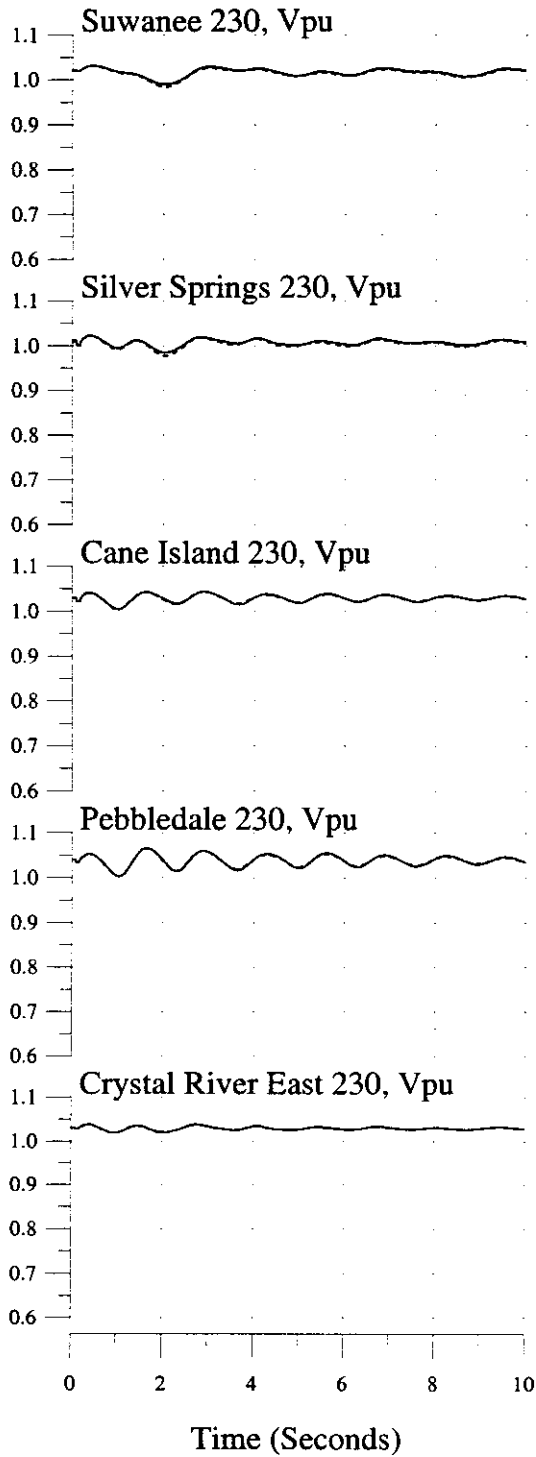
Time (Seconds)

Time (Seconds)

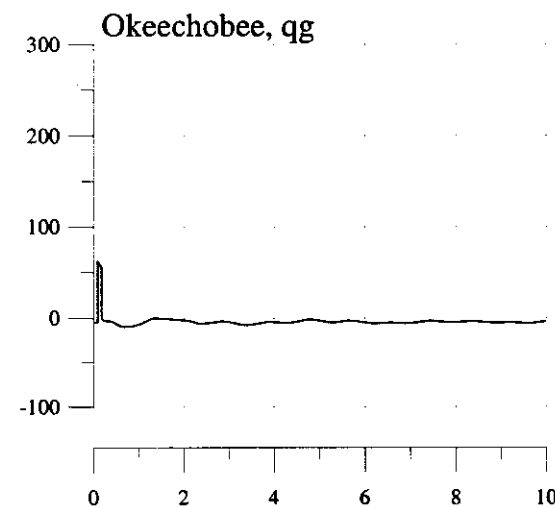
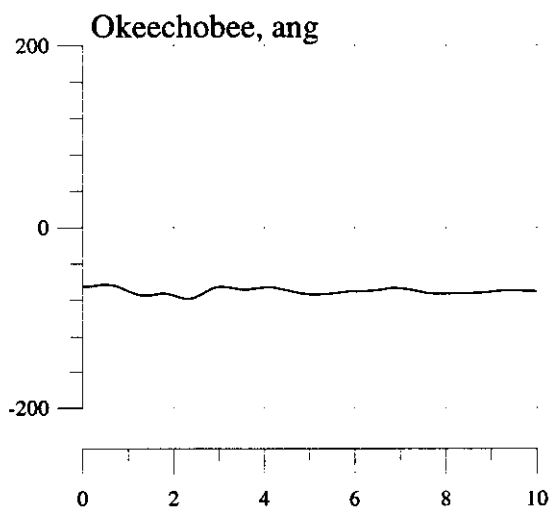
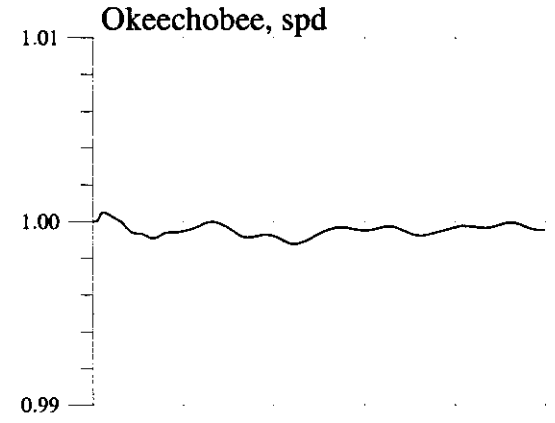
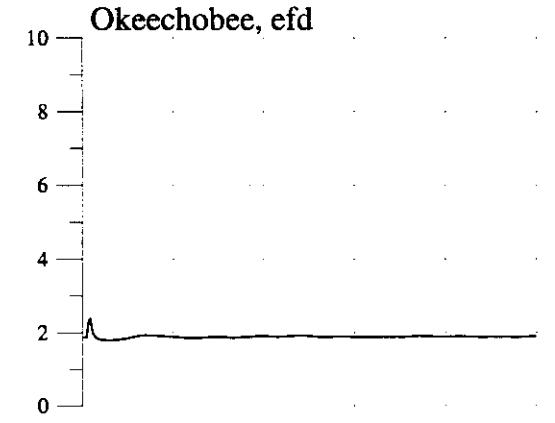
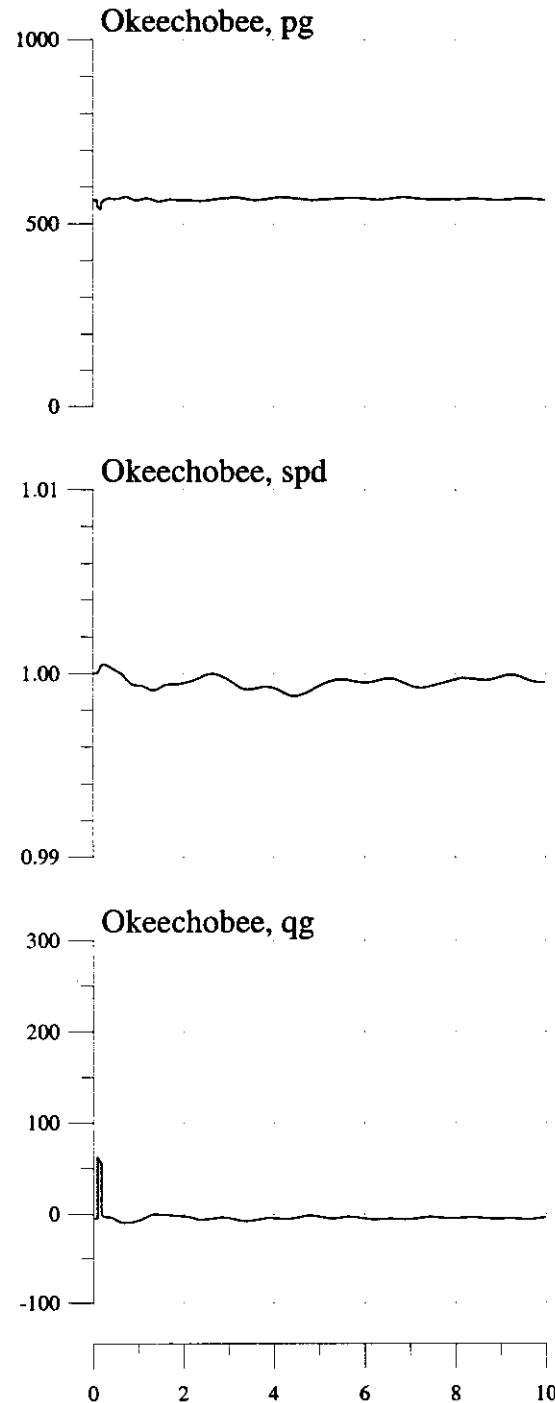
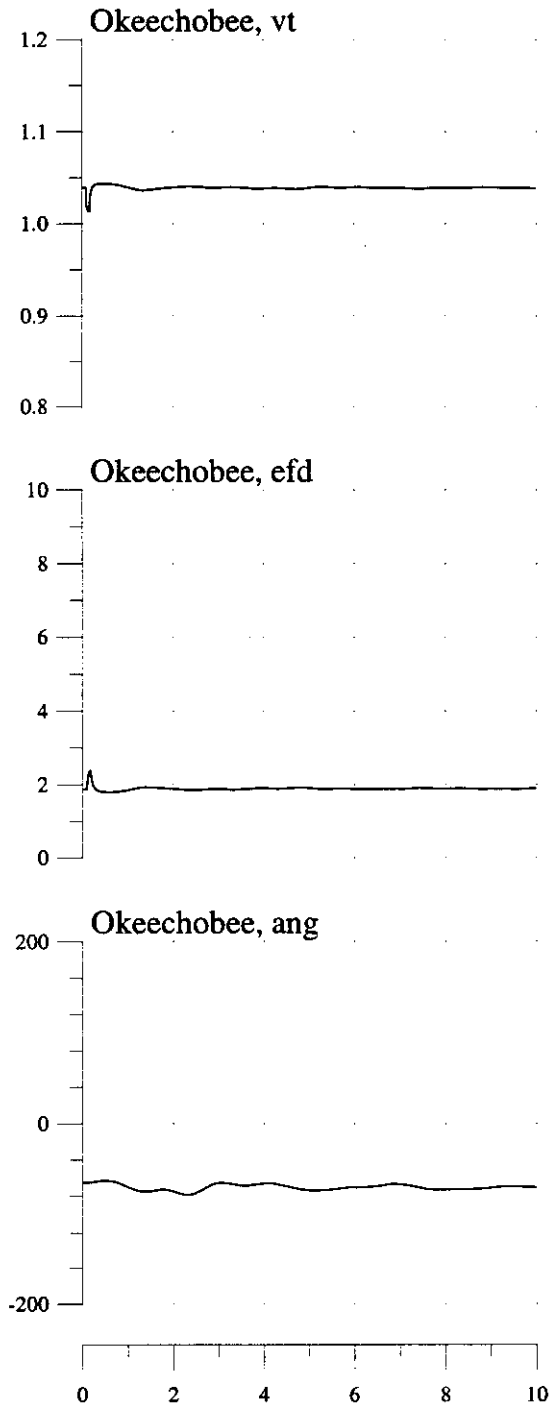


3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System  
 Machine & Interface Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without

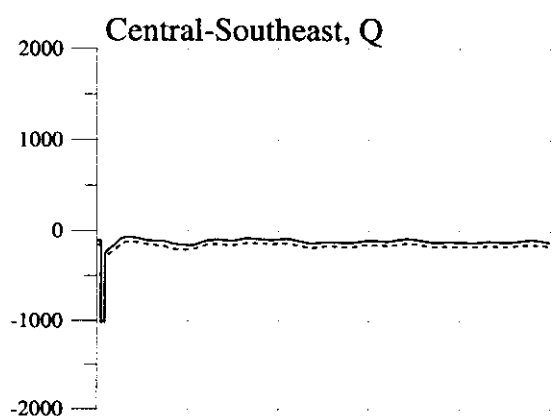
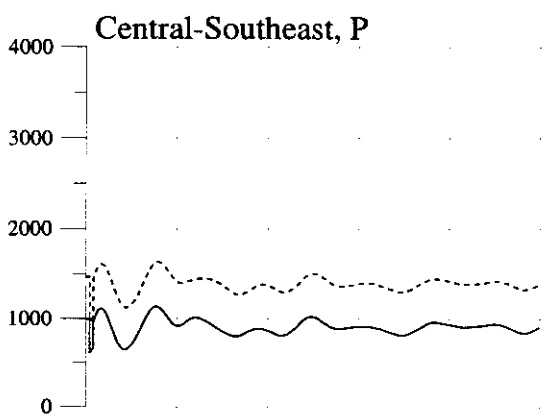
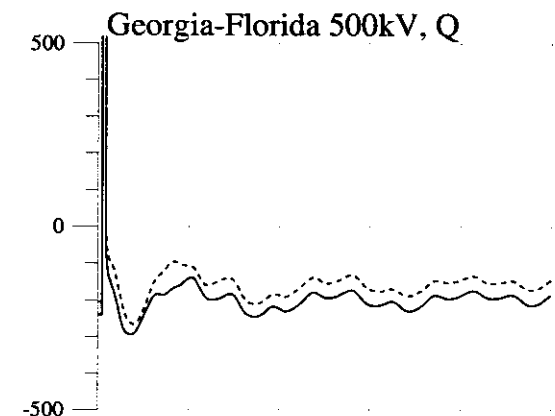
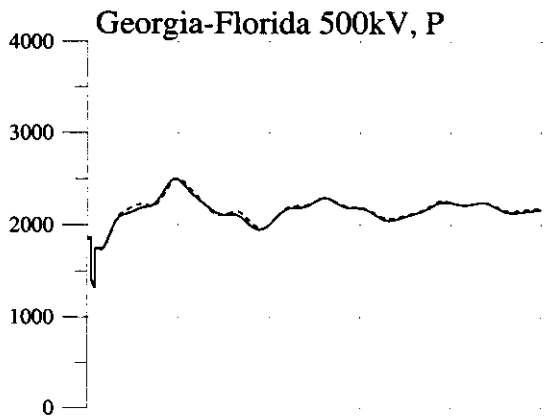
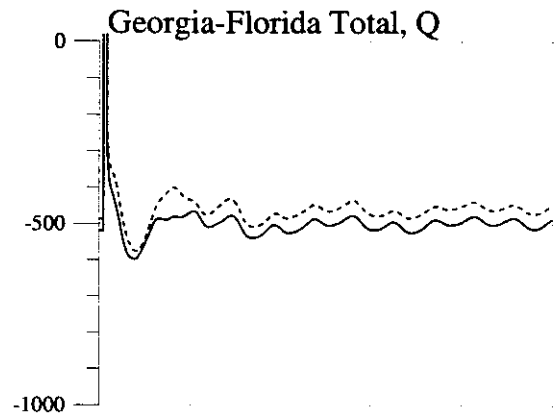
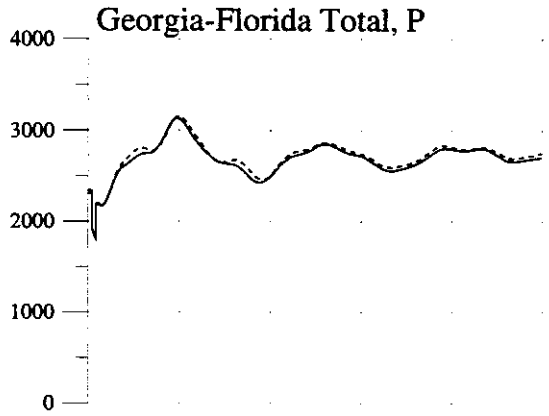


Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System  
 Machine & Interface Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



0 2 4 6 8 10

Time (Seconds)

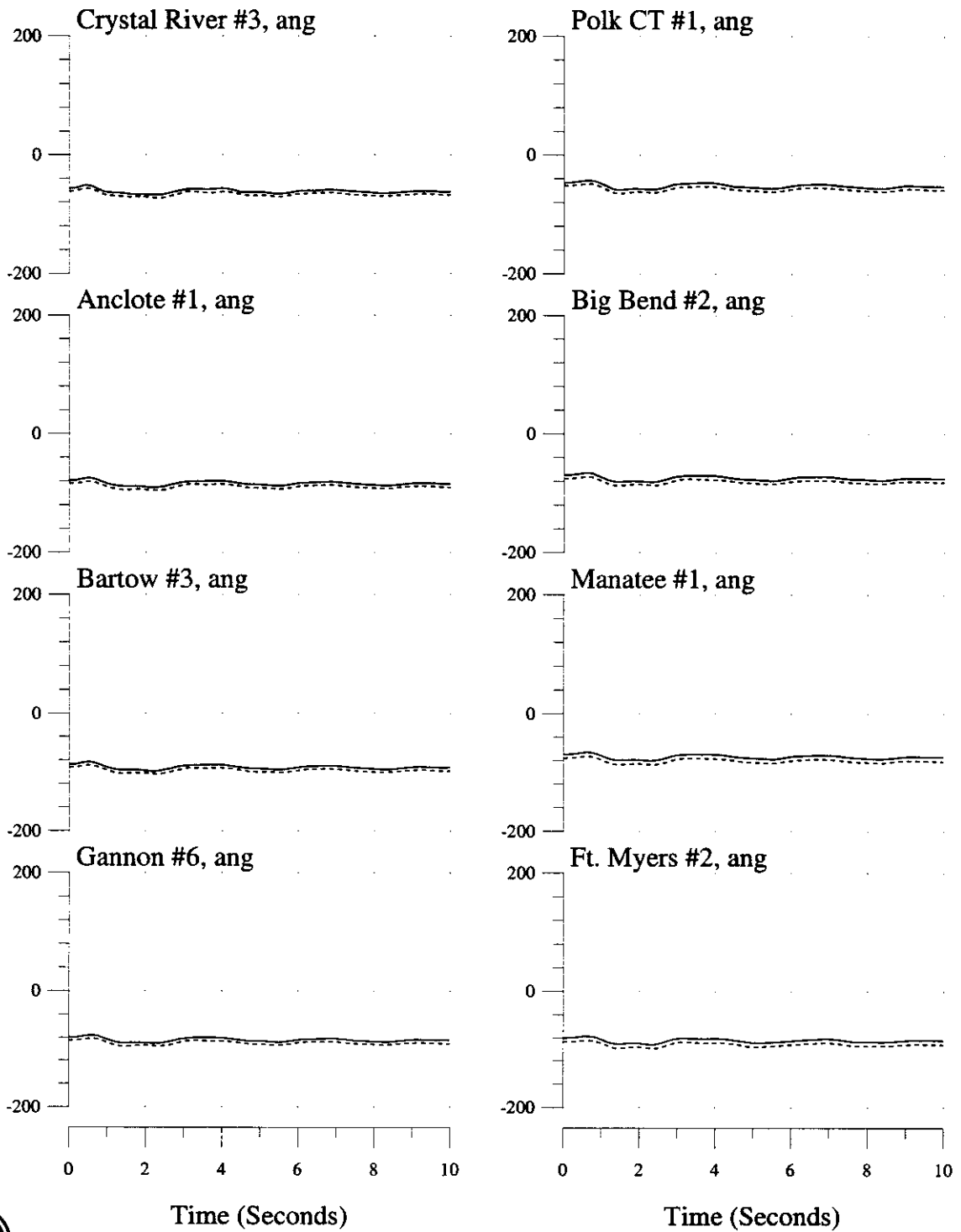
0 2 4 6 8 10

Time (Seconds)



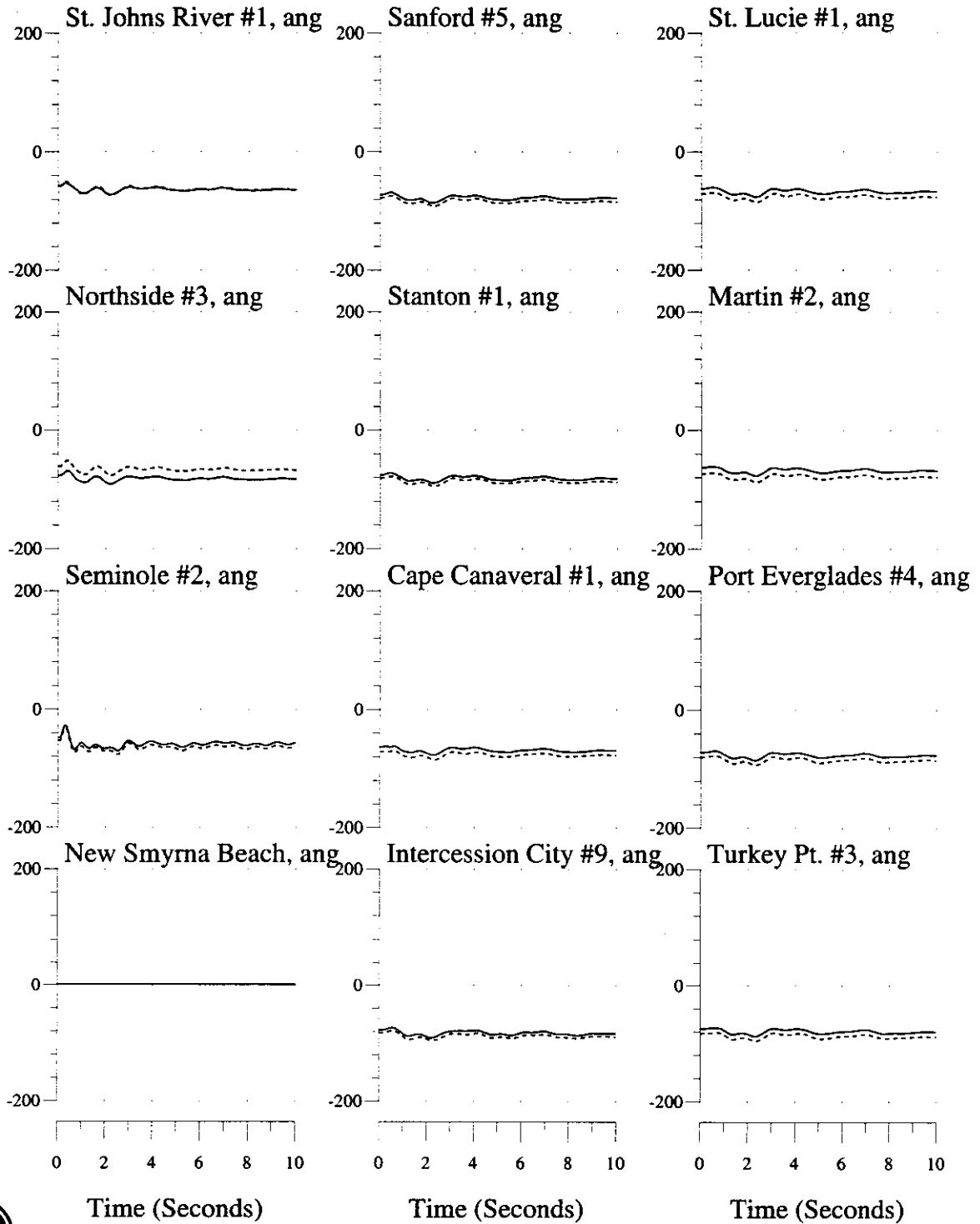
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

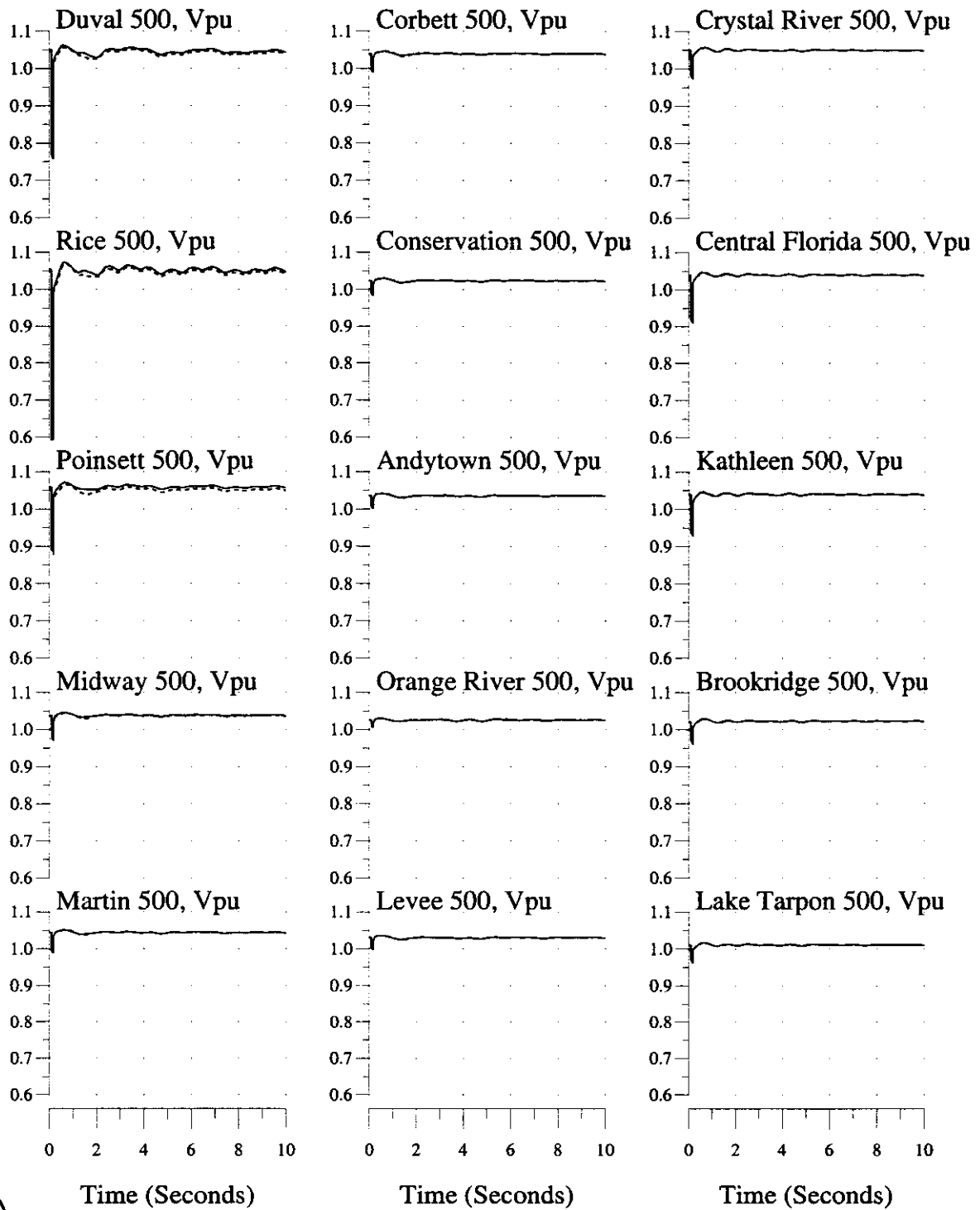
Machine Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without





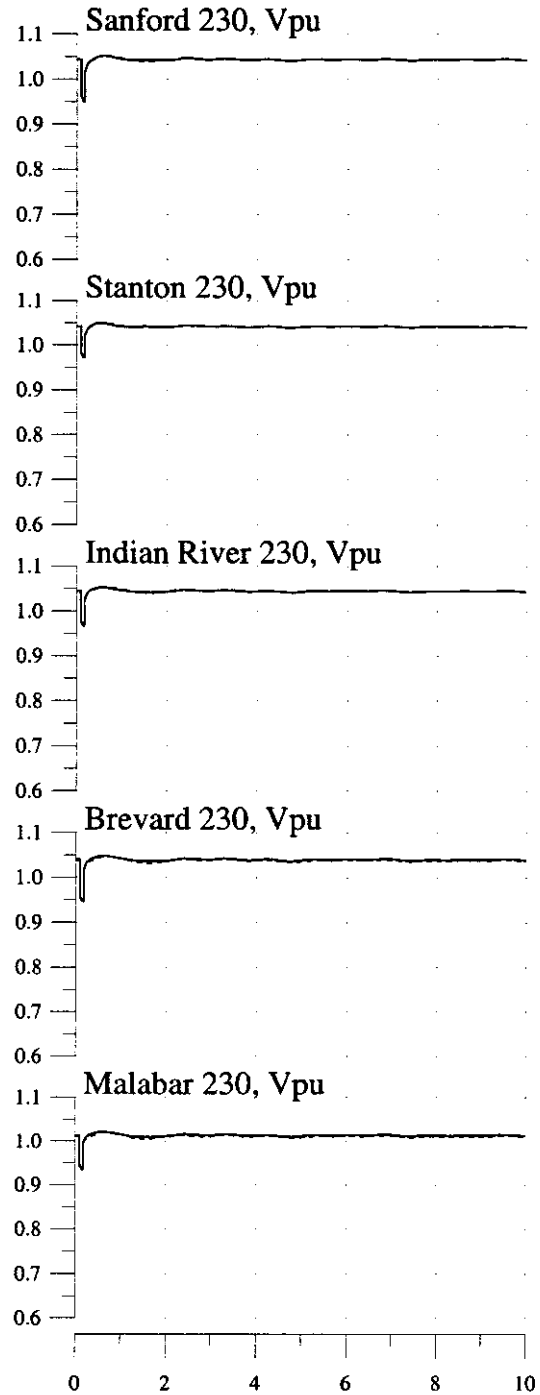
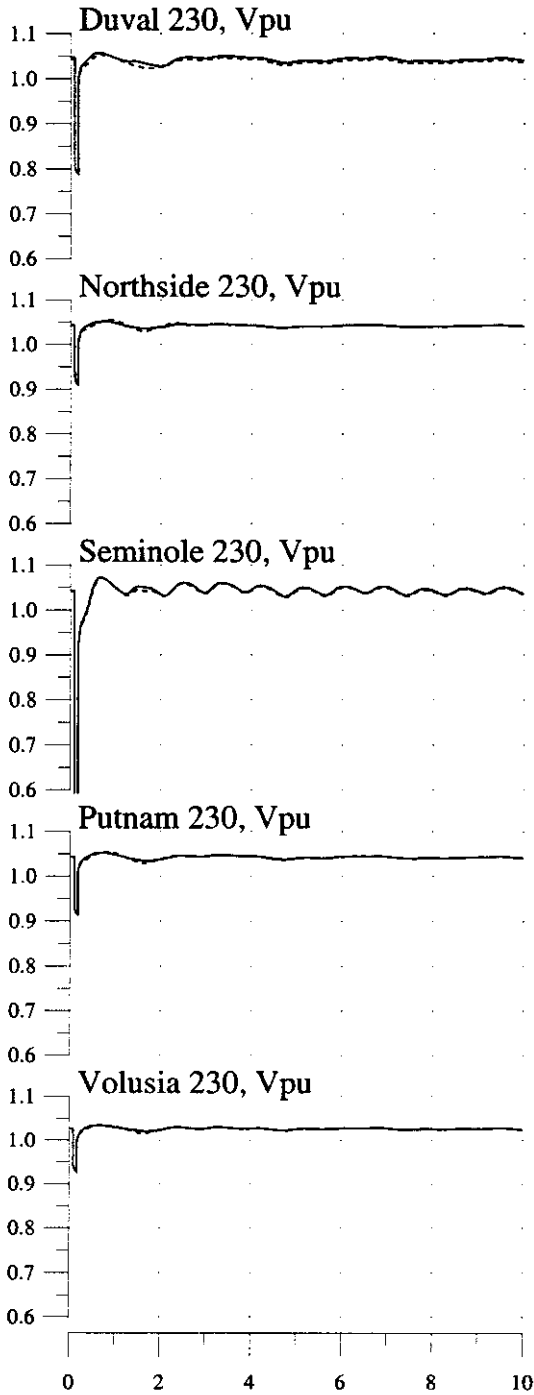
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



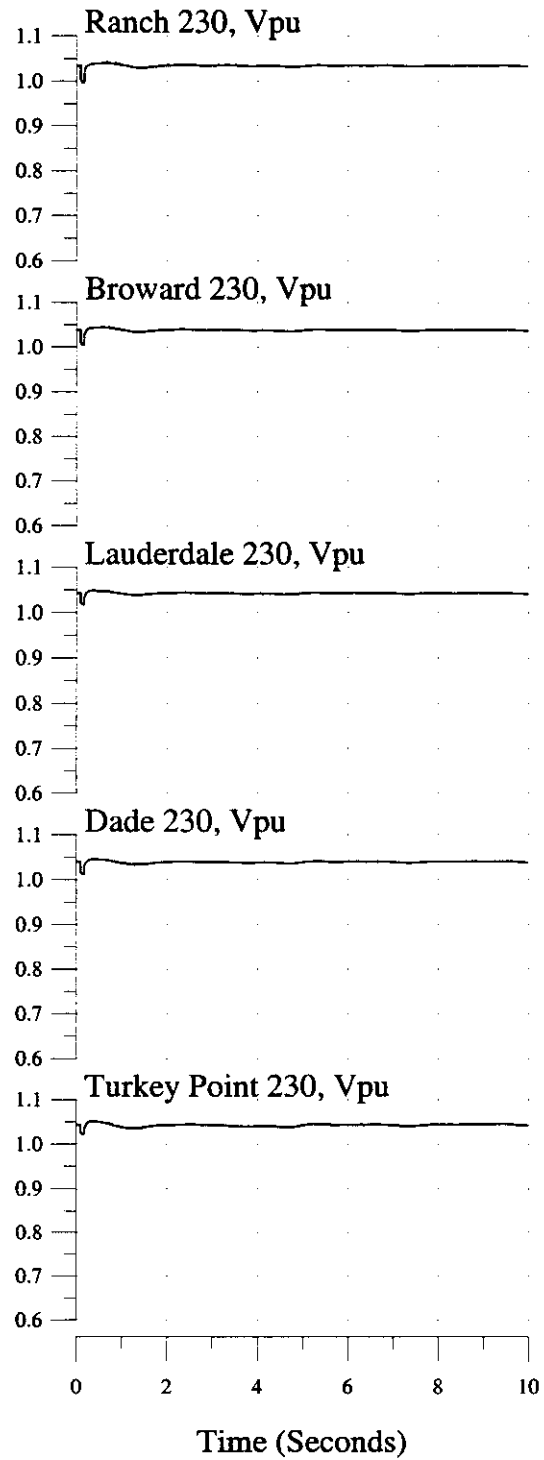
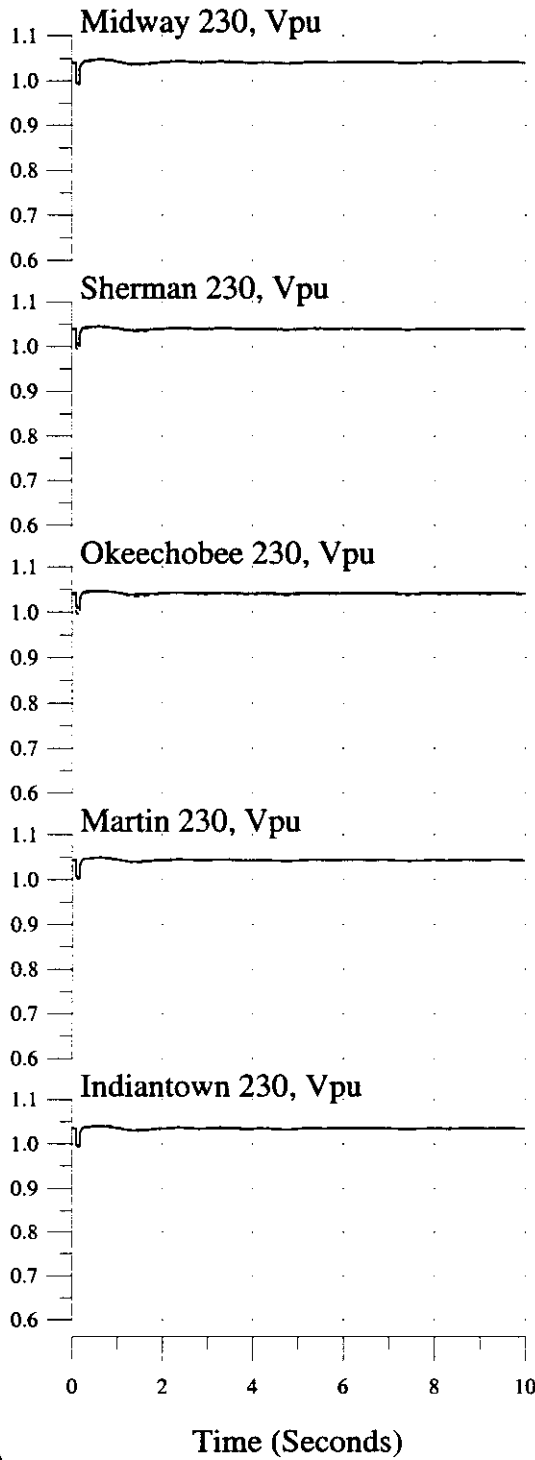
Time (Seconds)

Time (Seconds)



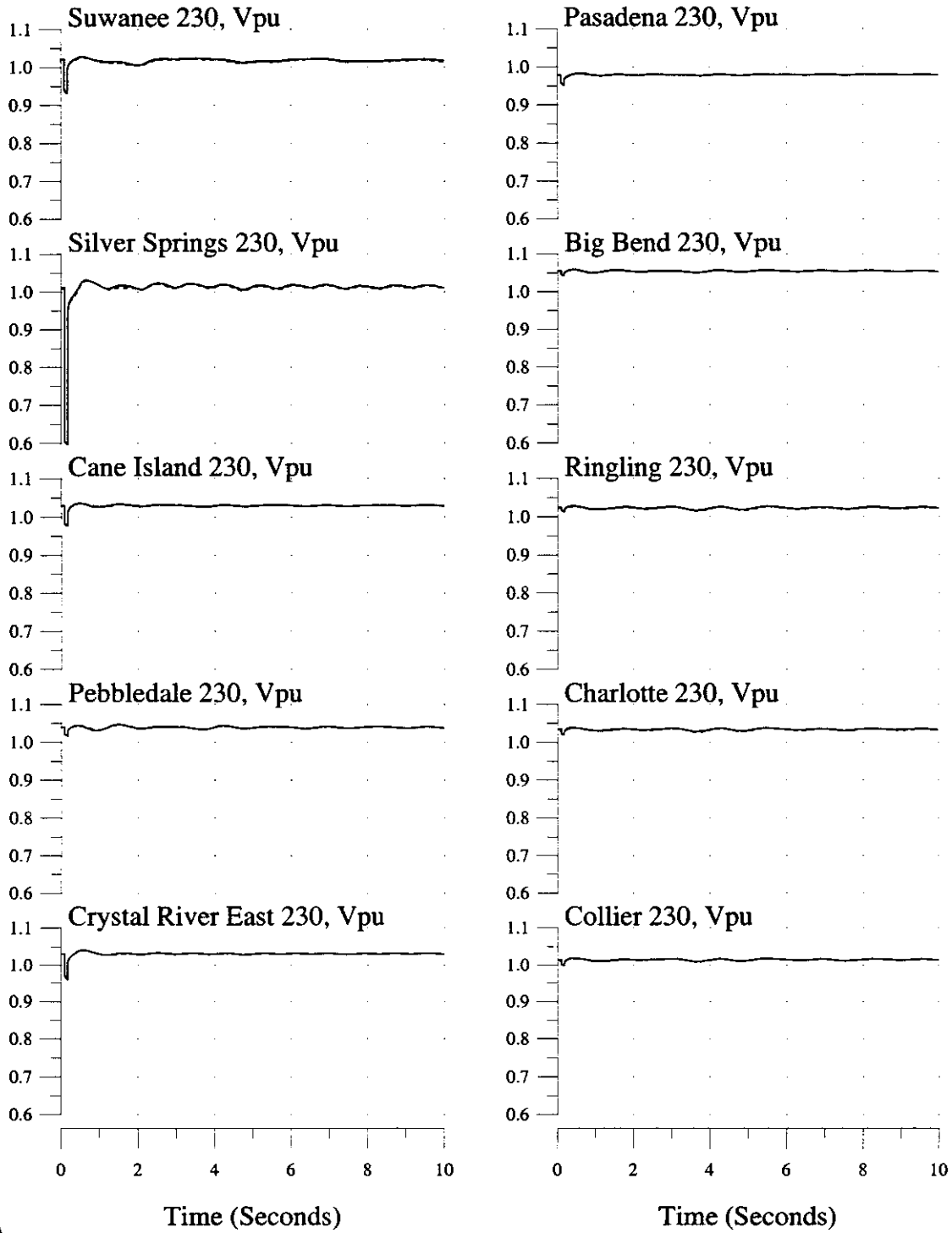
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



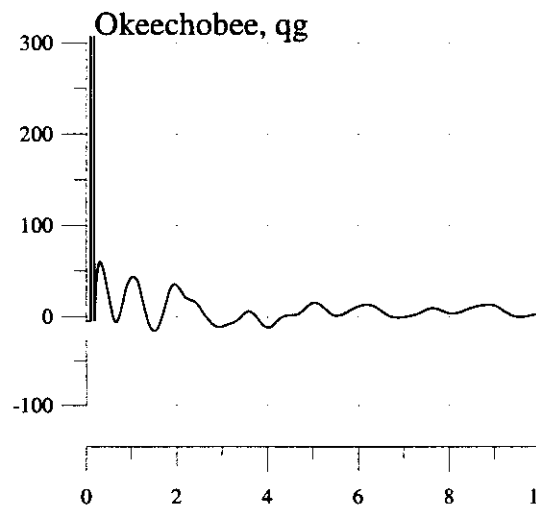
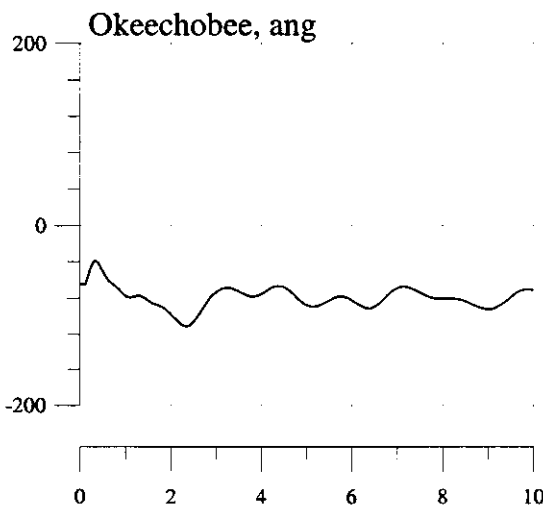
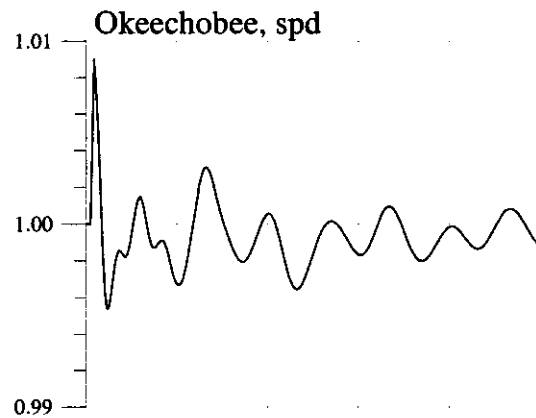
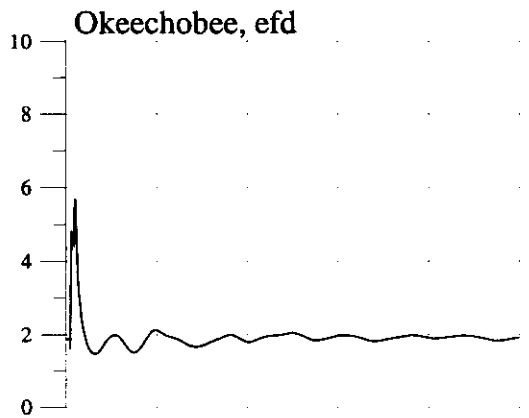
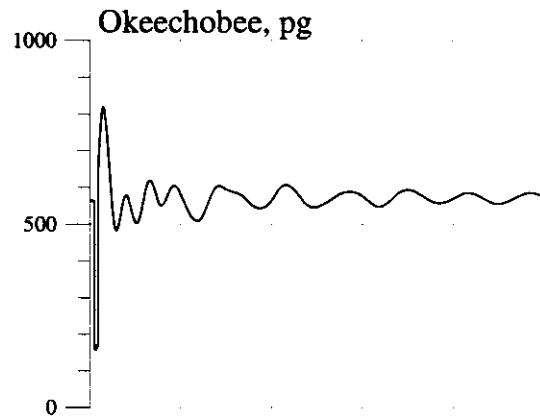
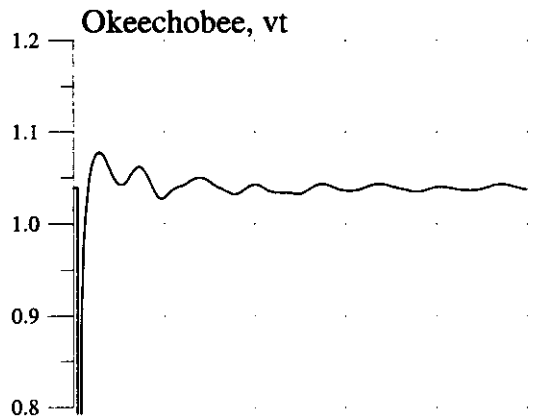
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



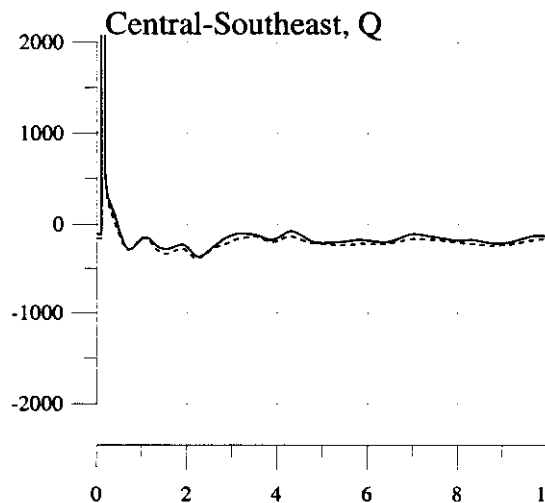
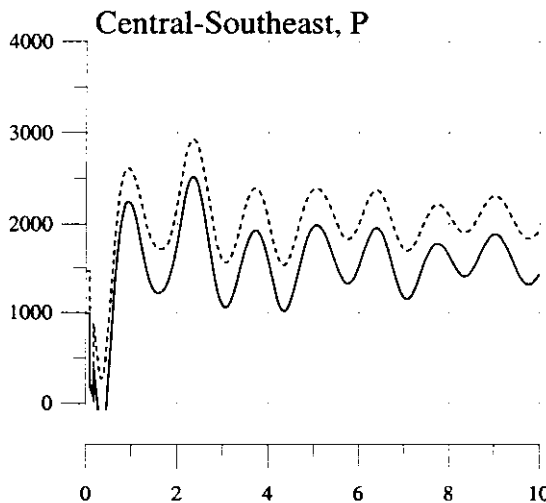
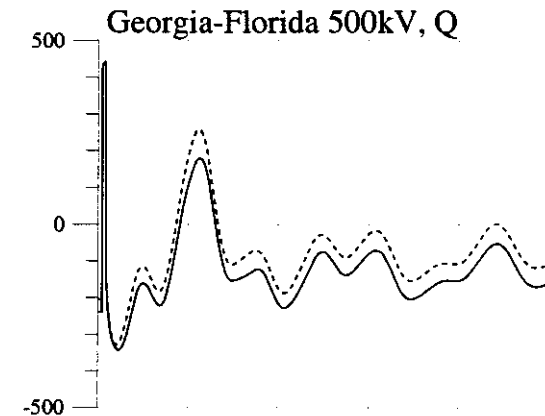
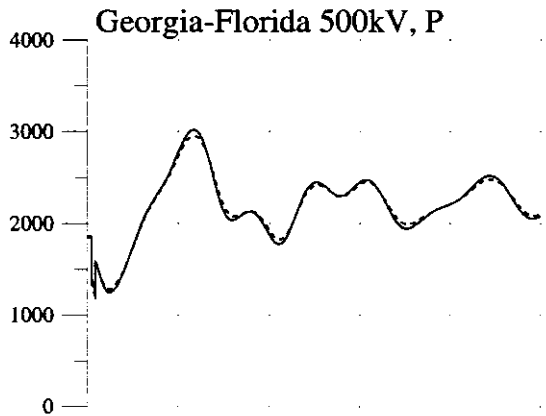
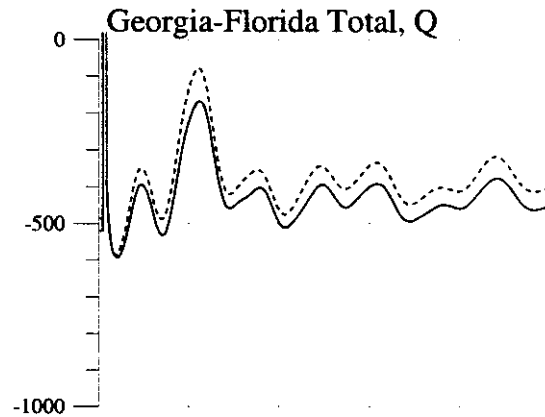
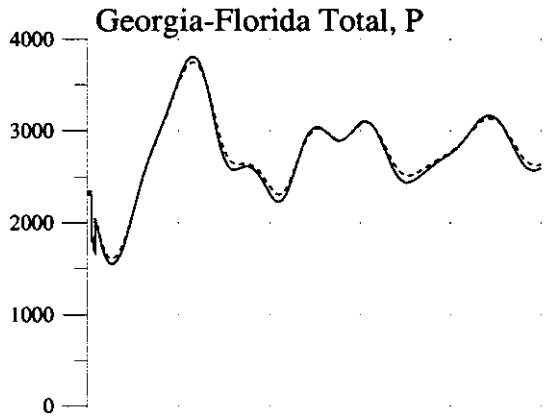
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



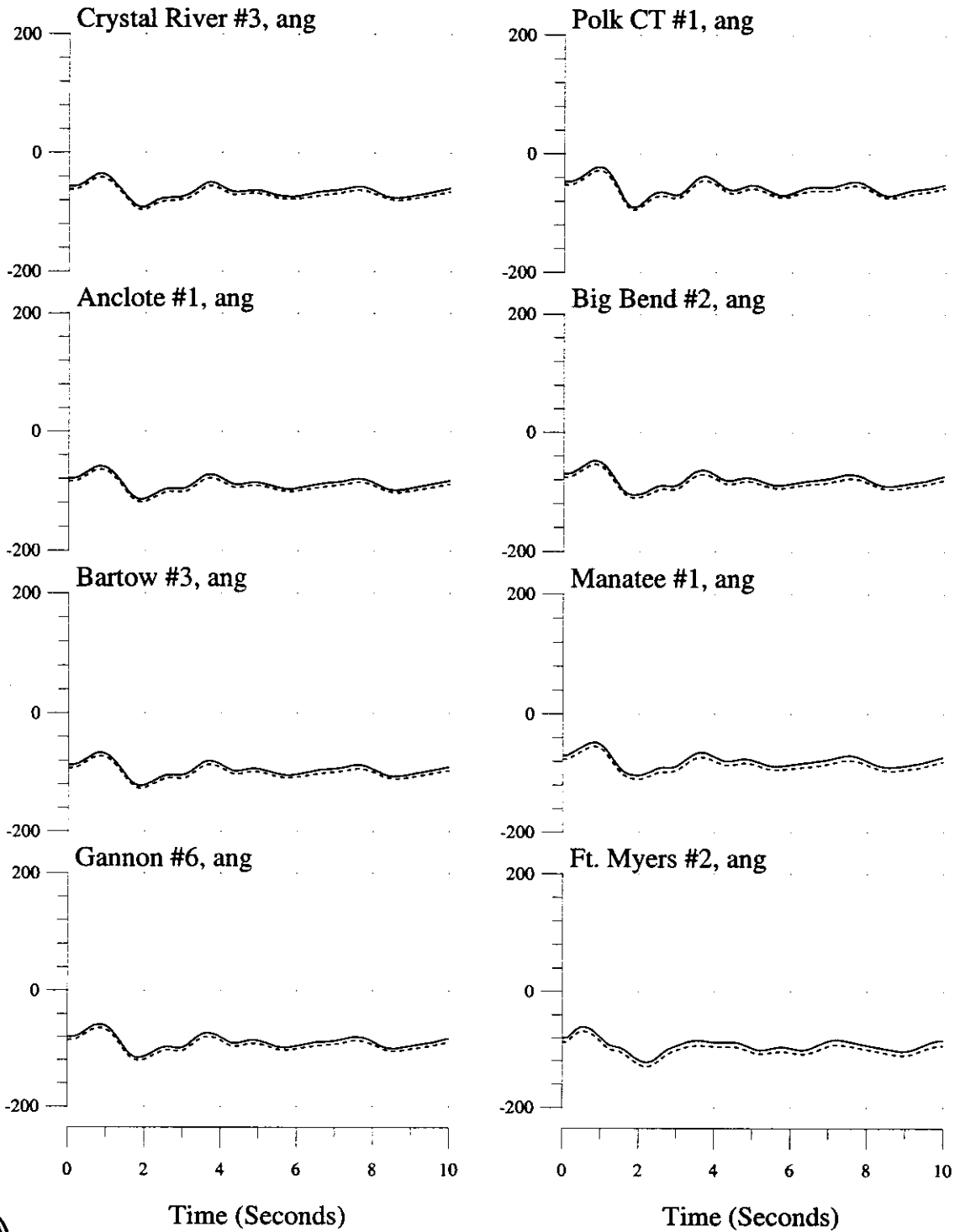
Time (Seconds)

Time (Seconds)



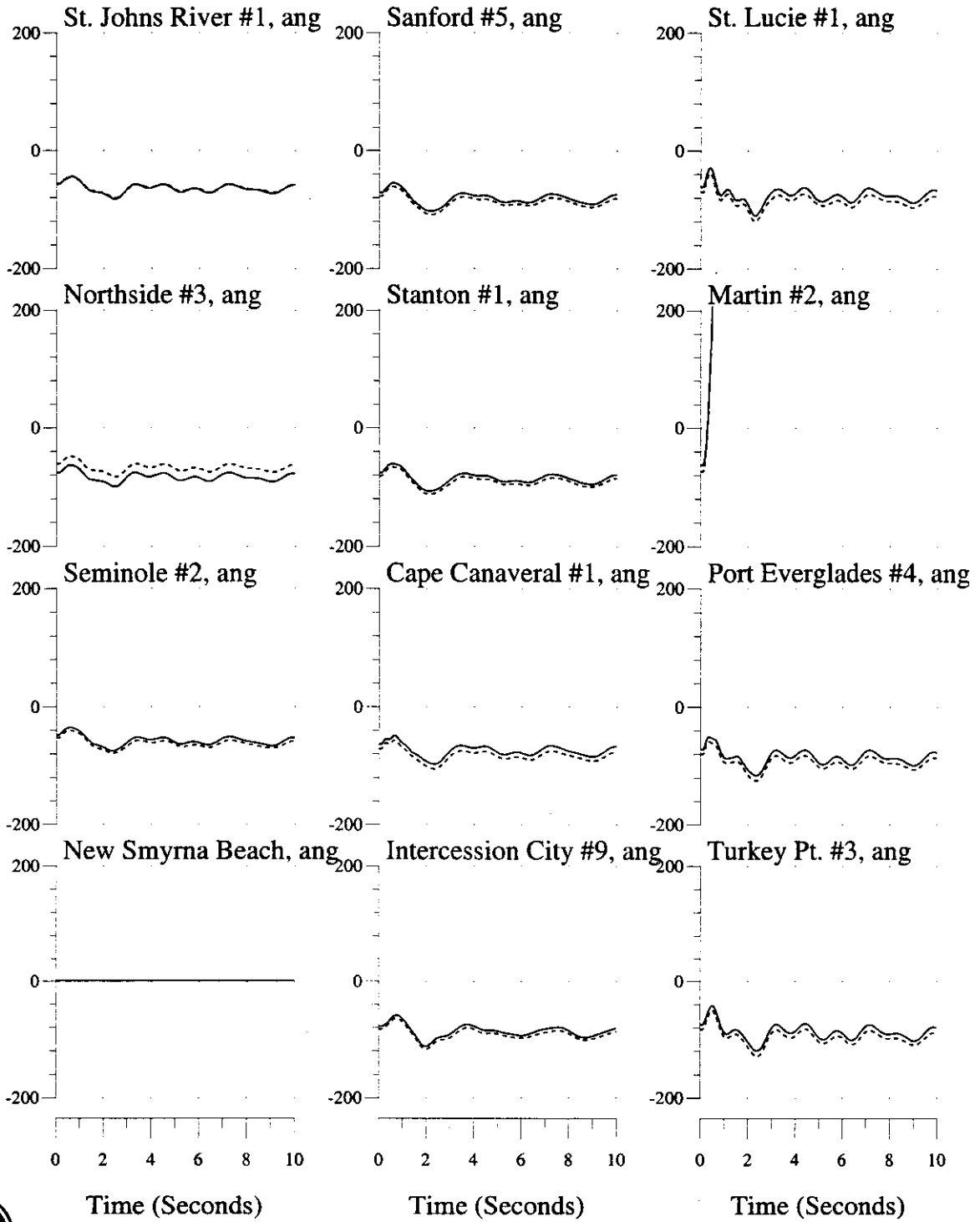
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

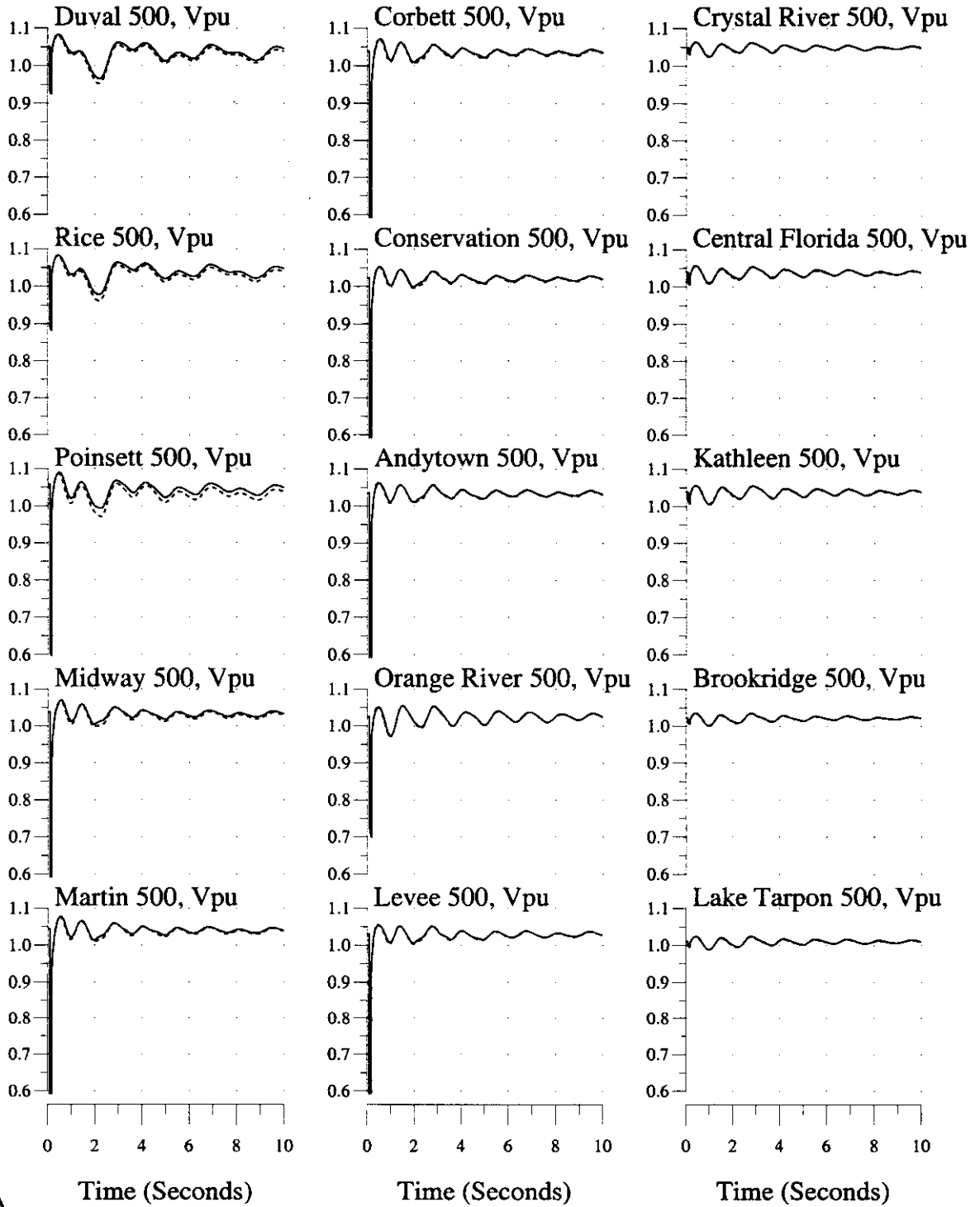
Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without





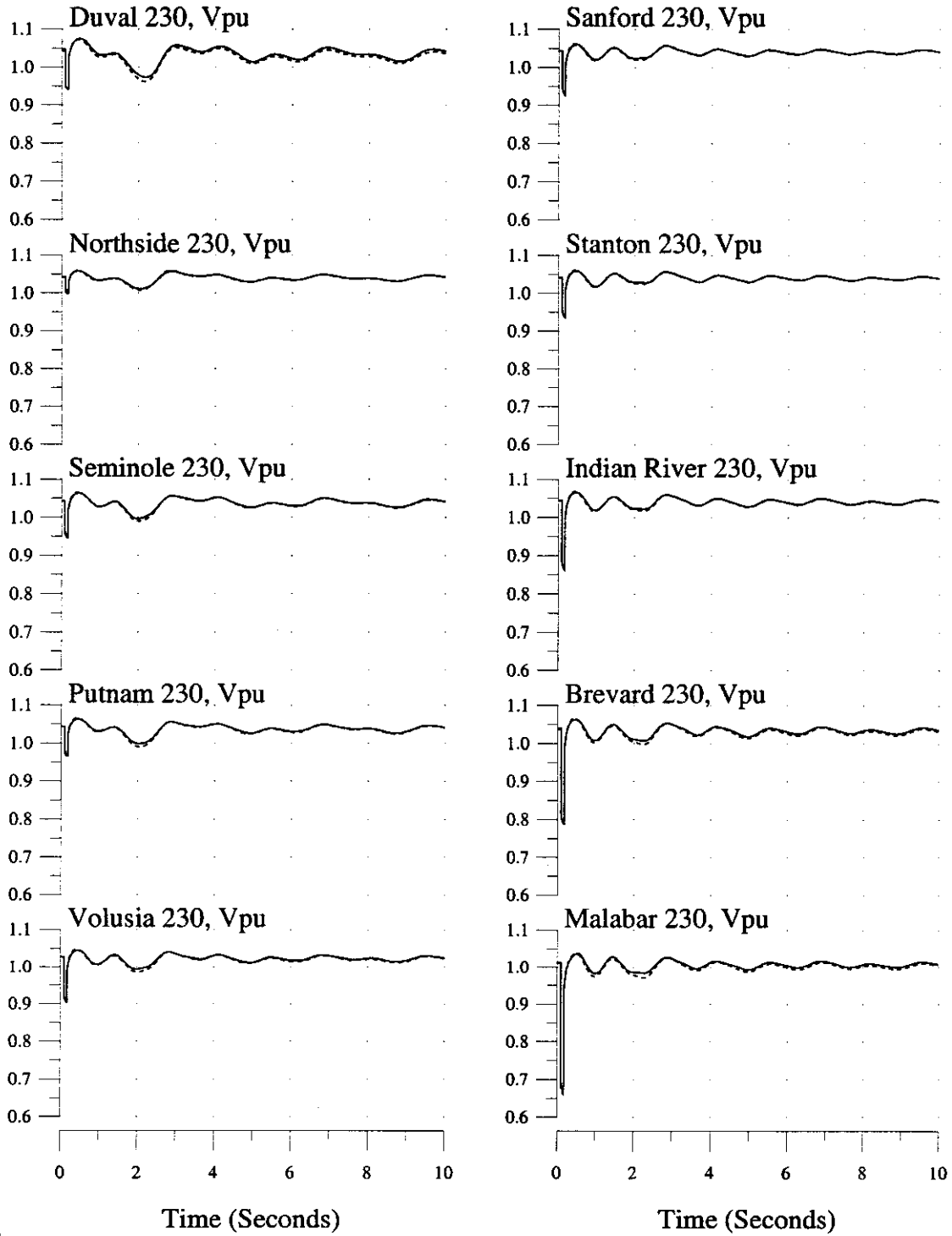
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



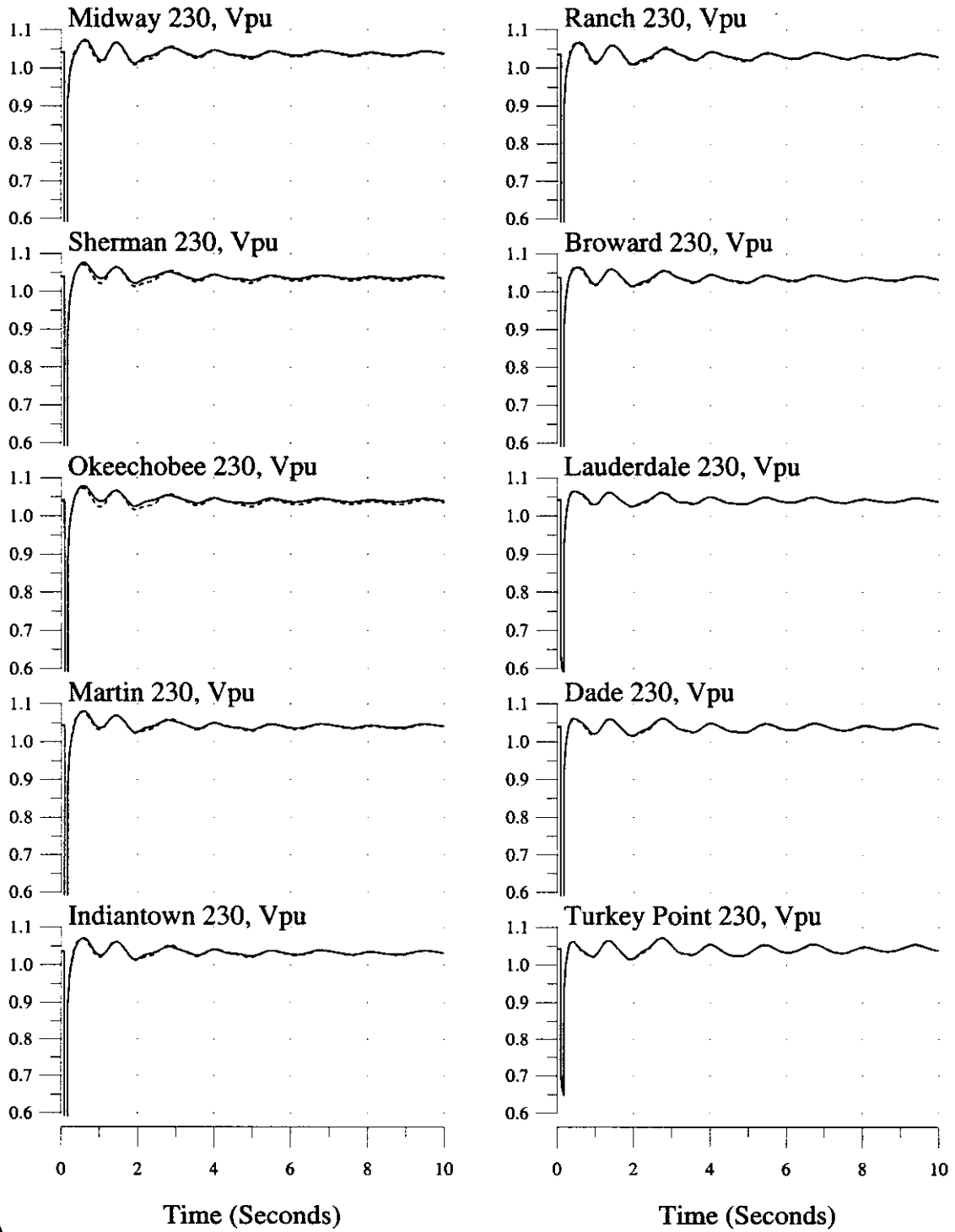
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



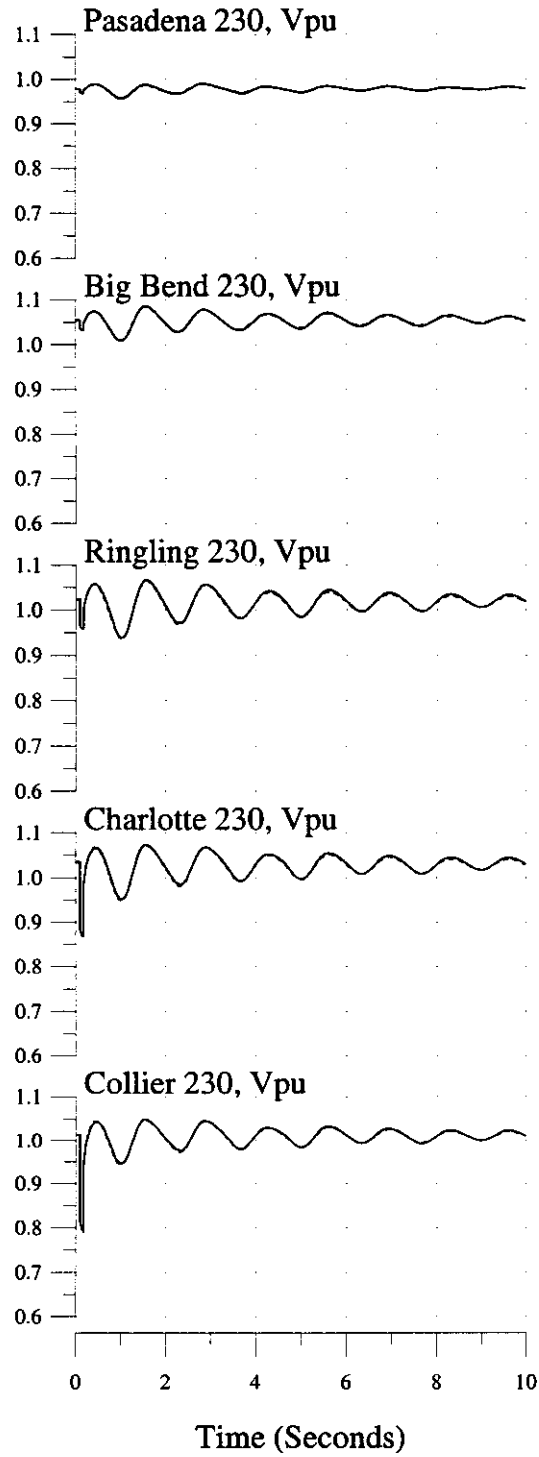
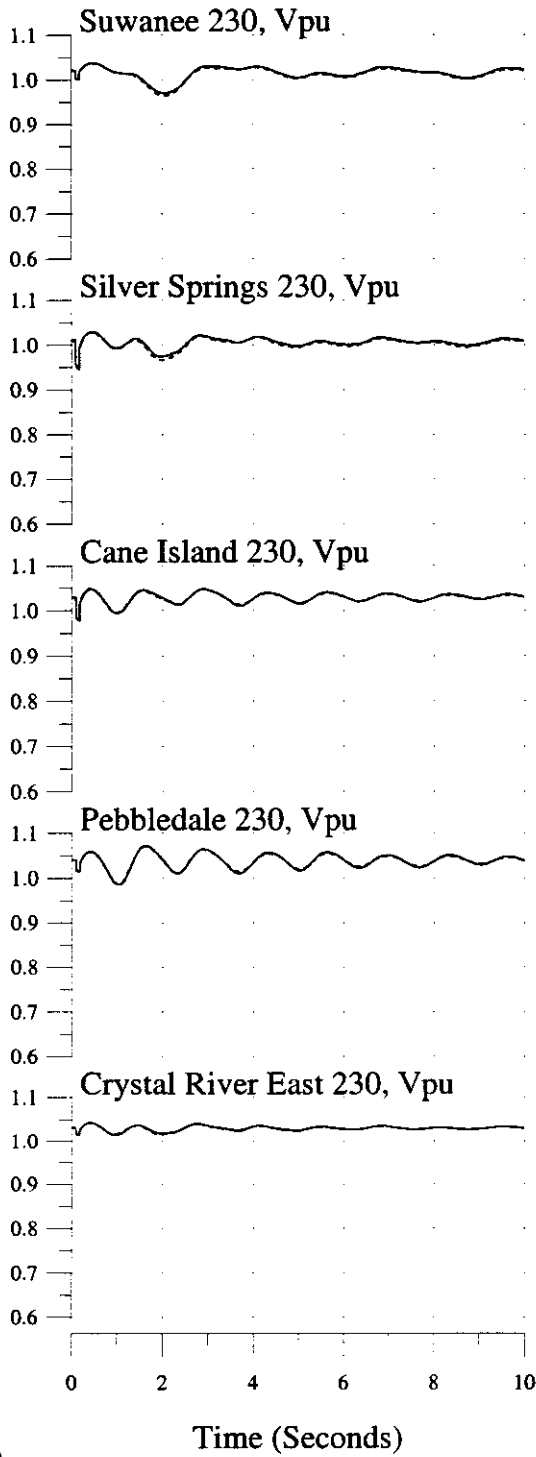
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without

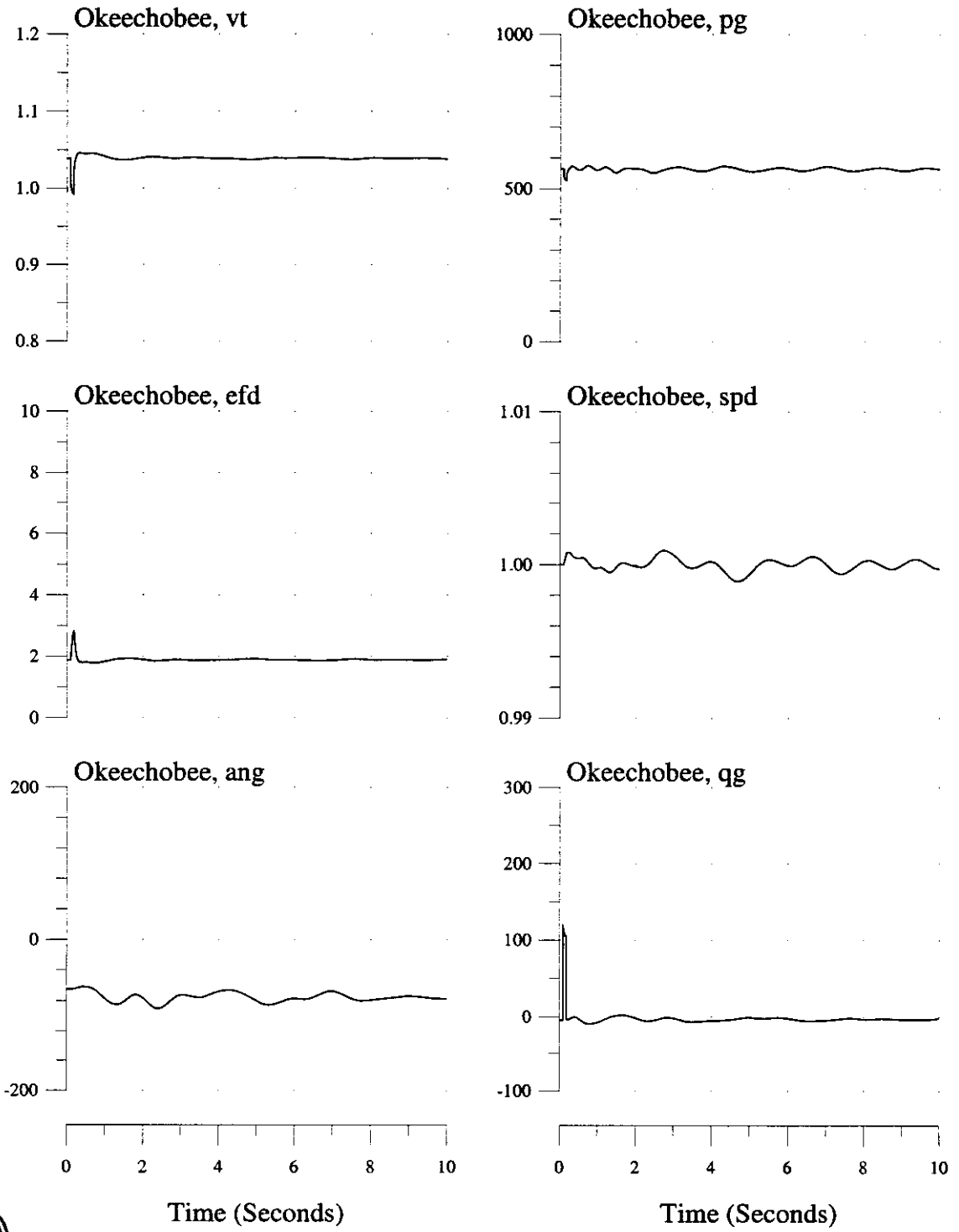


3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without

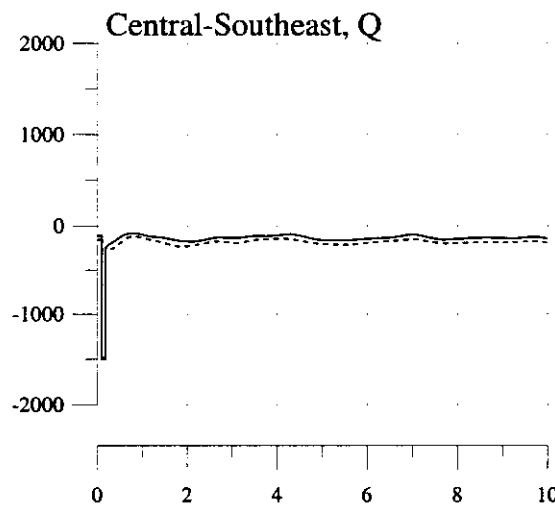
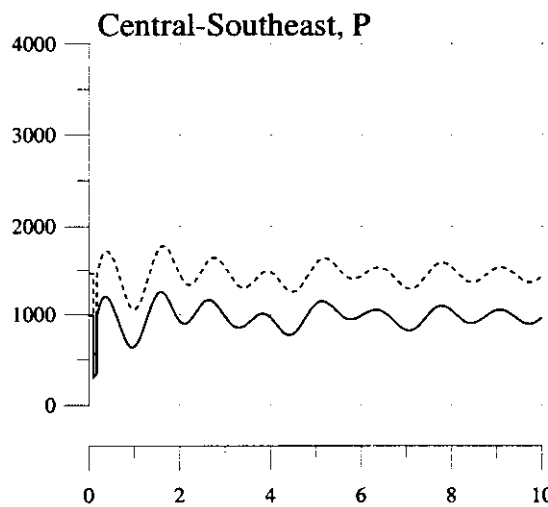
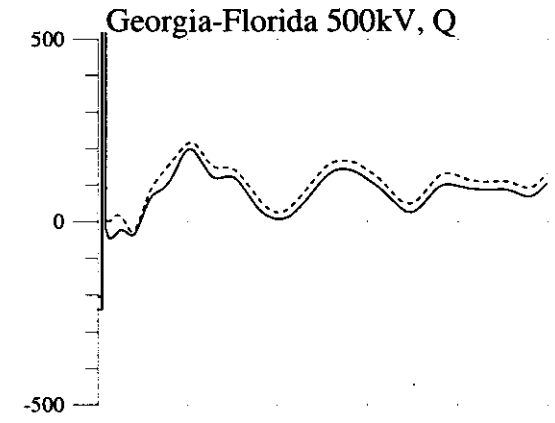
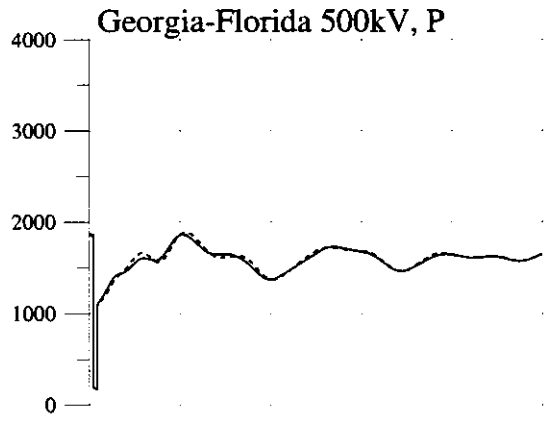
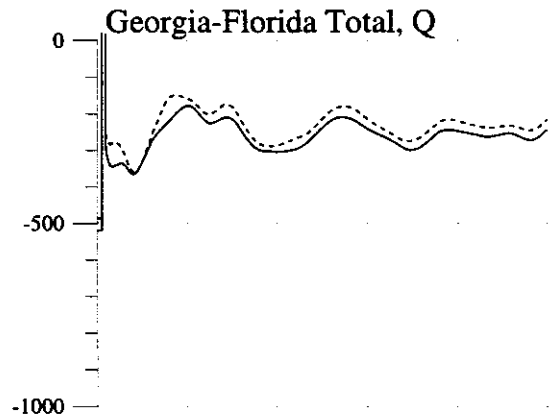
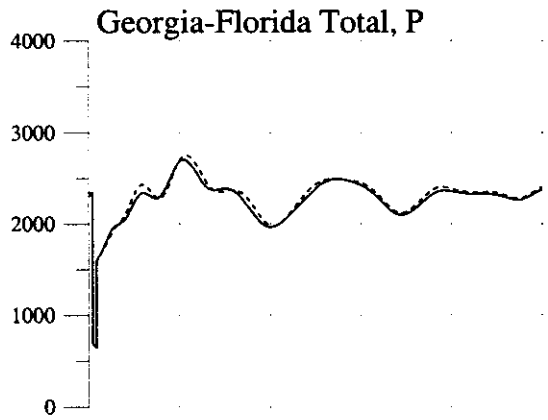


3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System  
 Machine & Interface Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



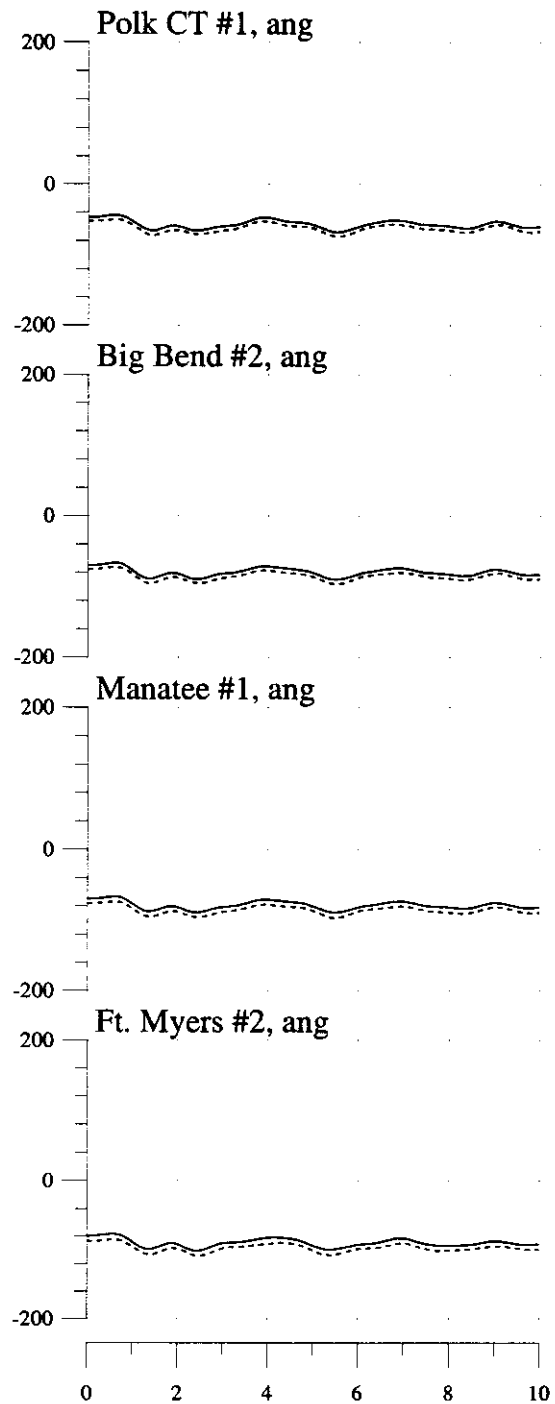
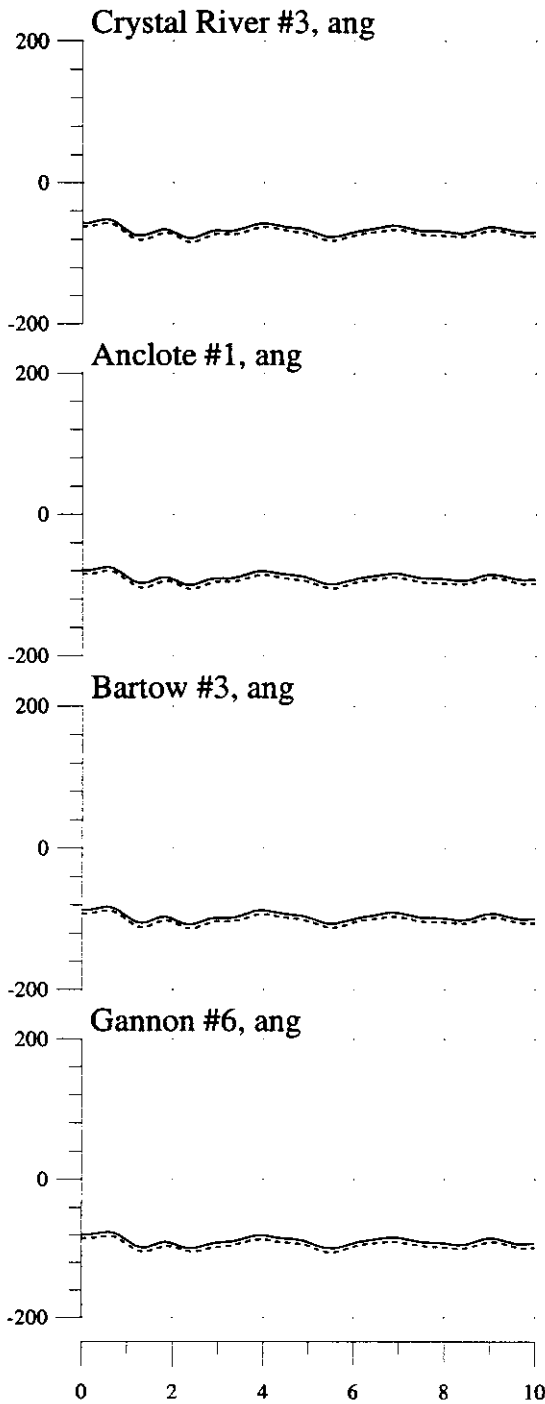
Time (Seconds)

Time (Seconds)



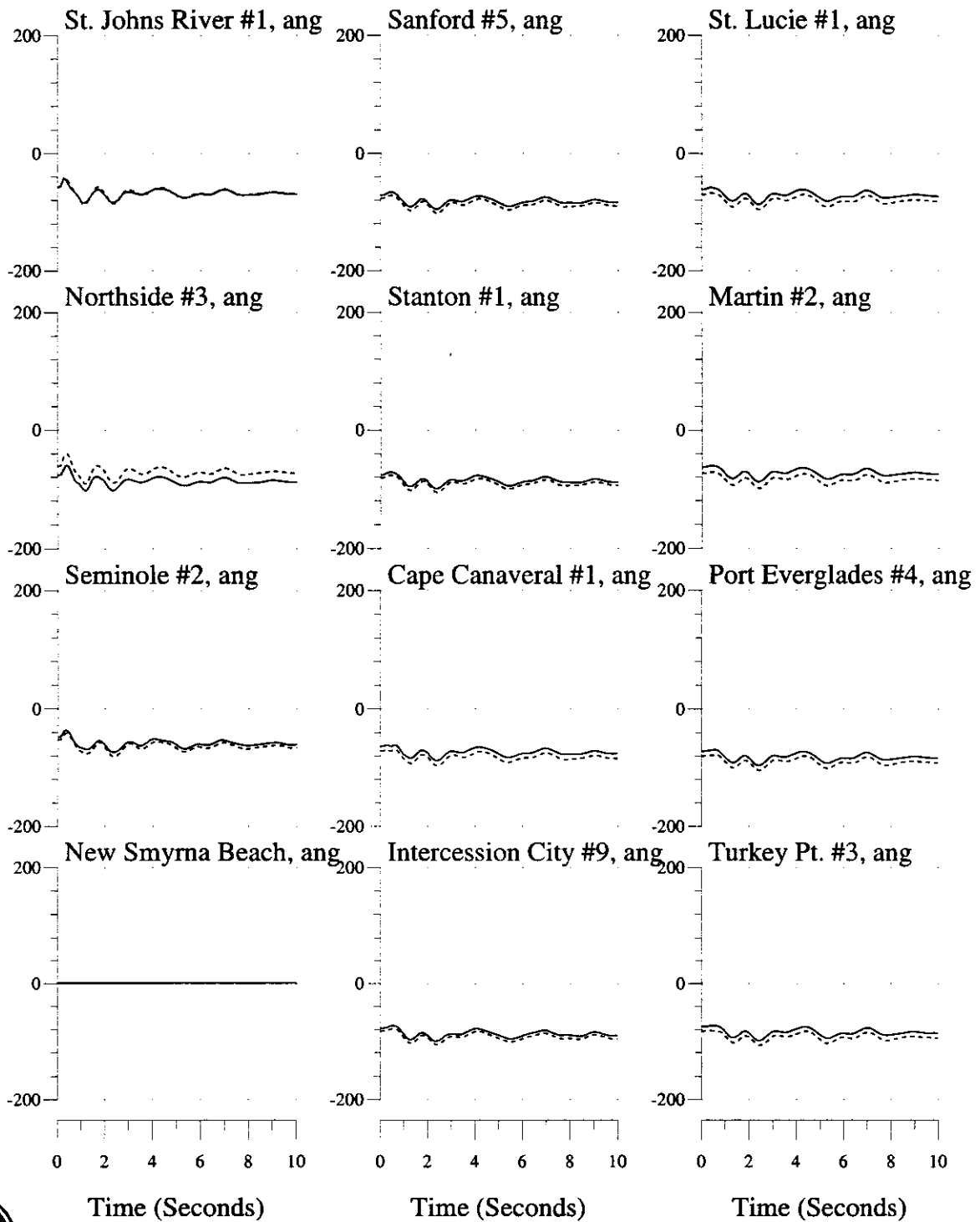
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

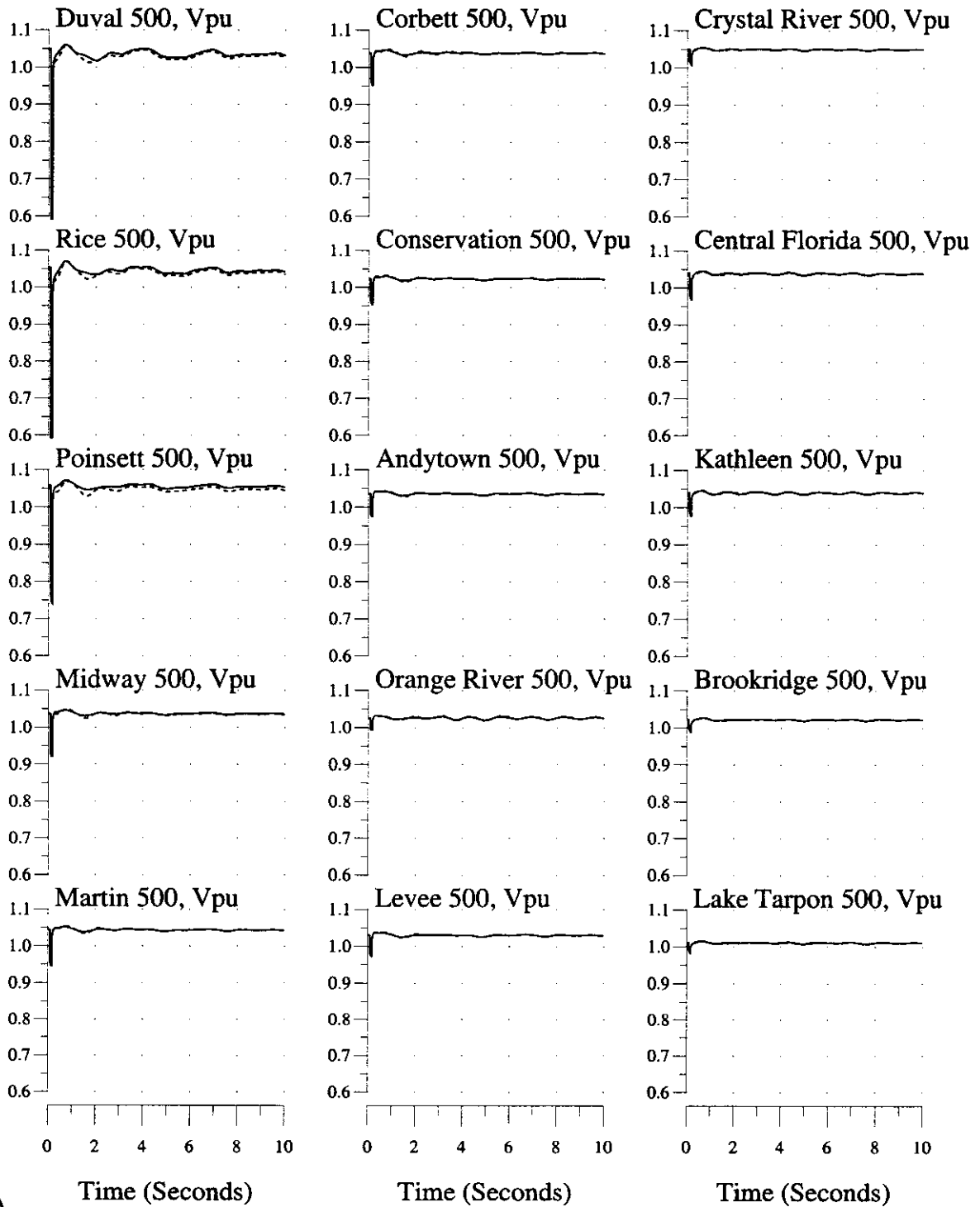
Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without





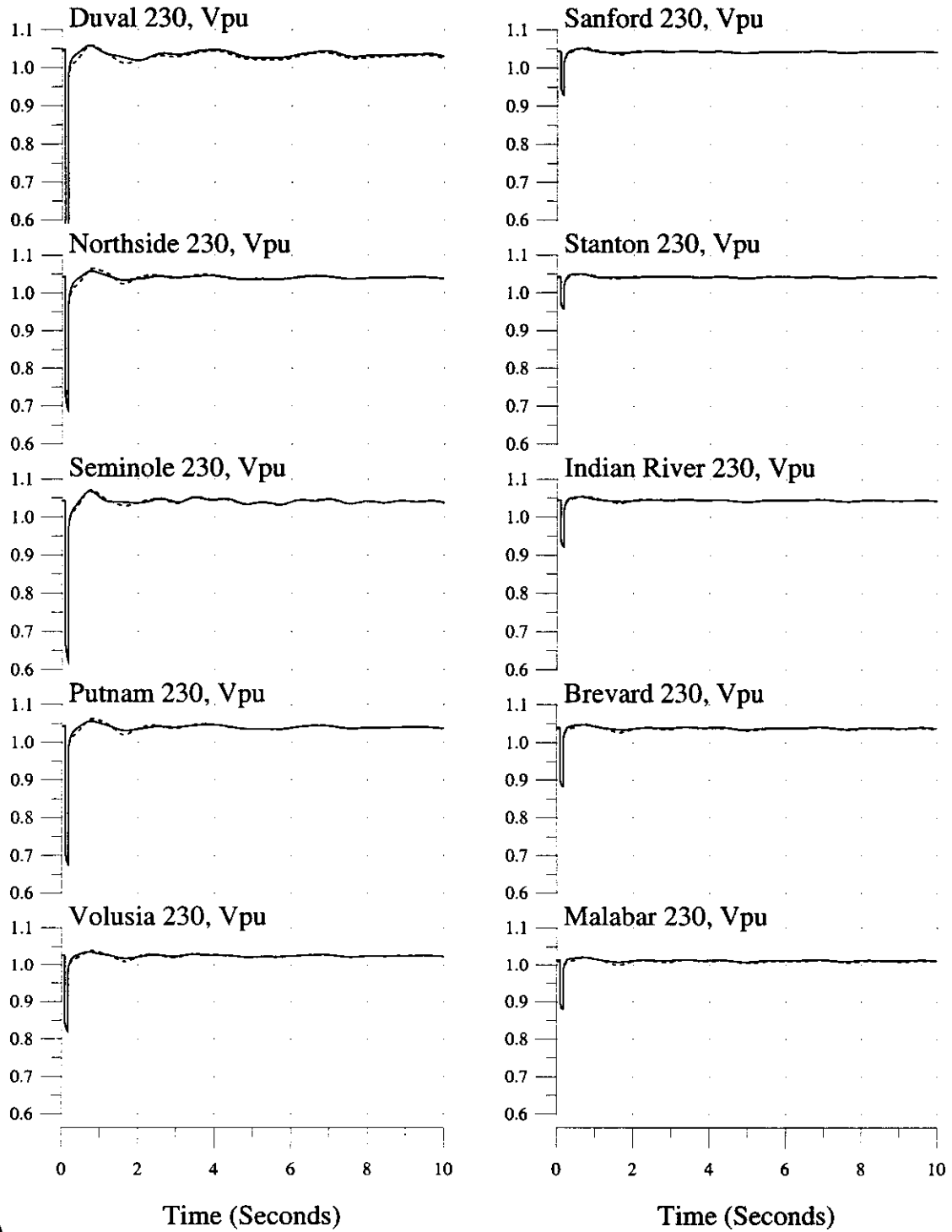
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



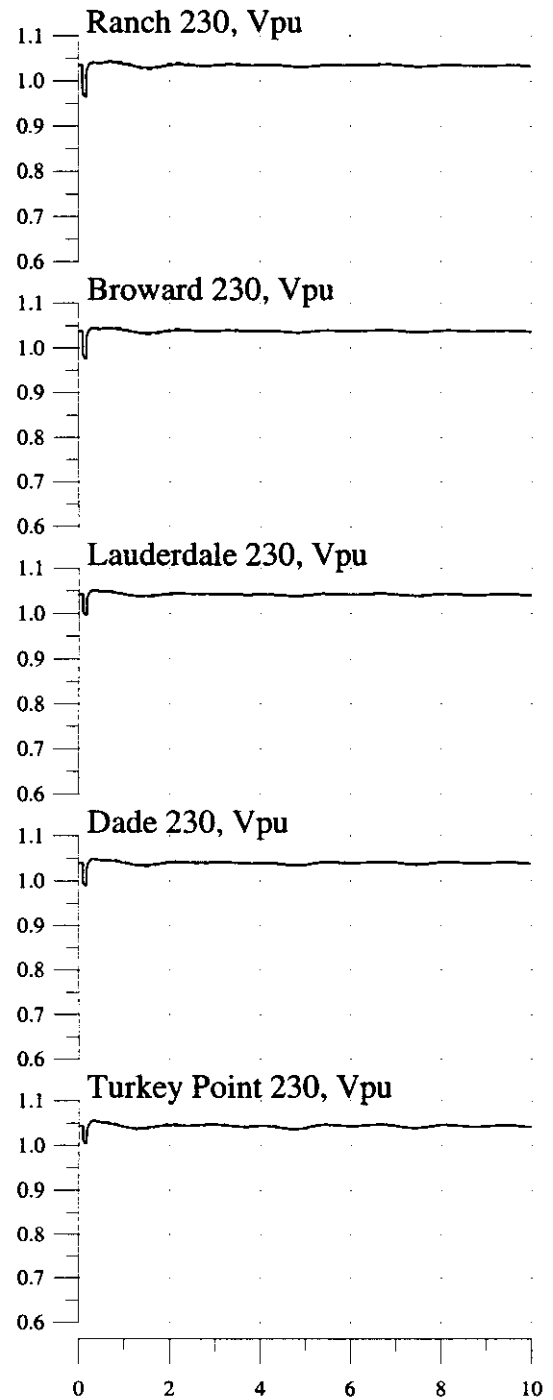
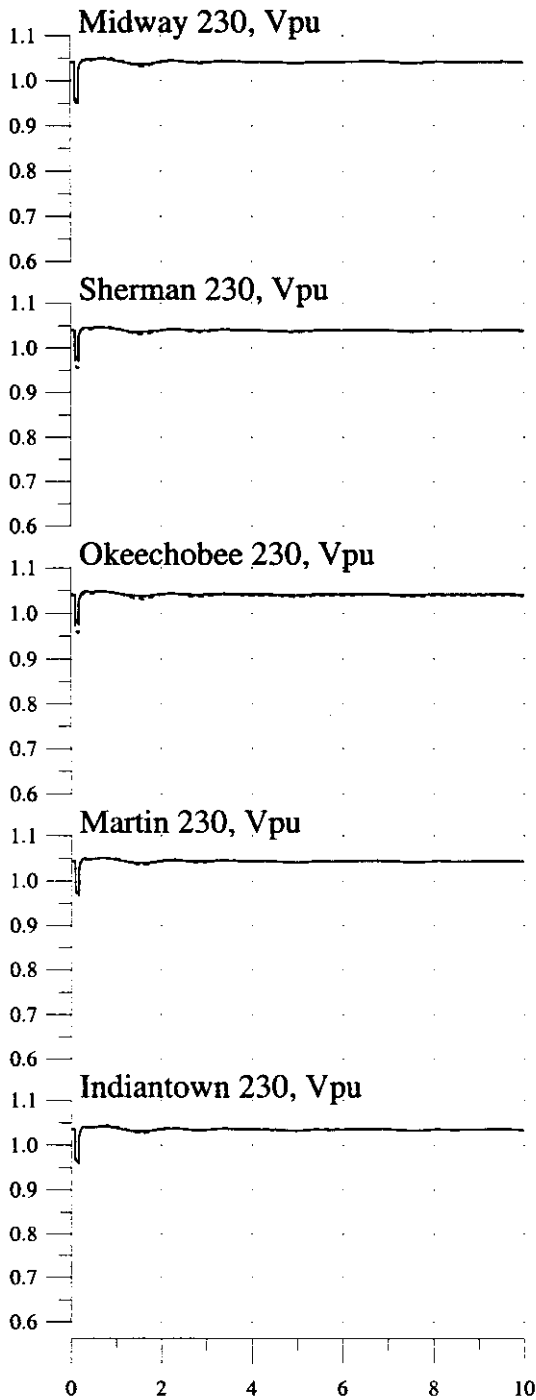
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



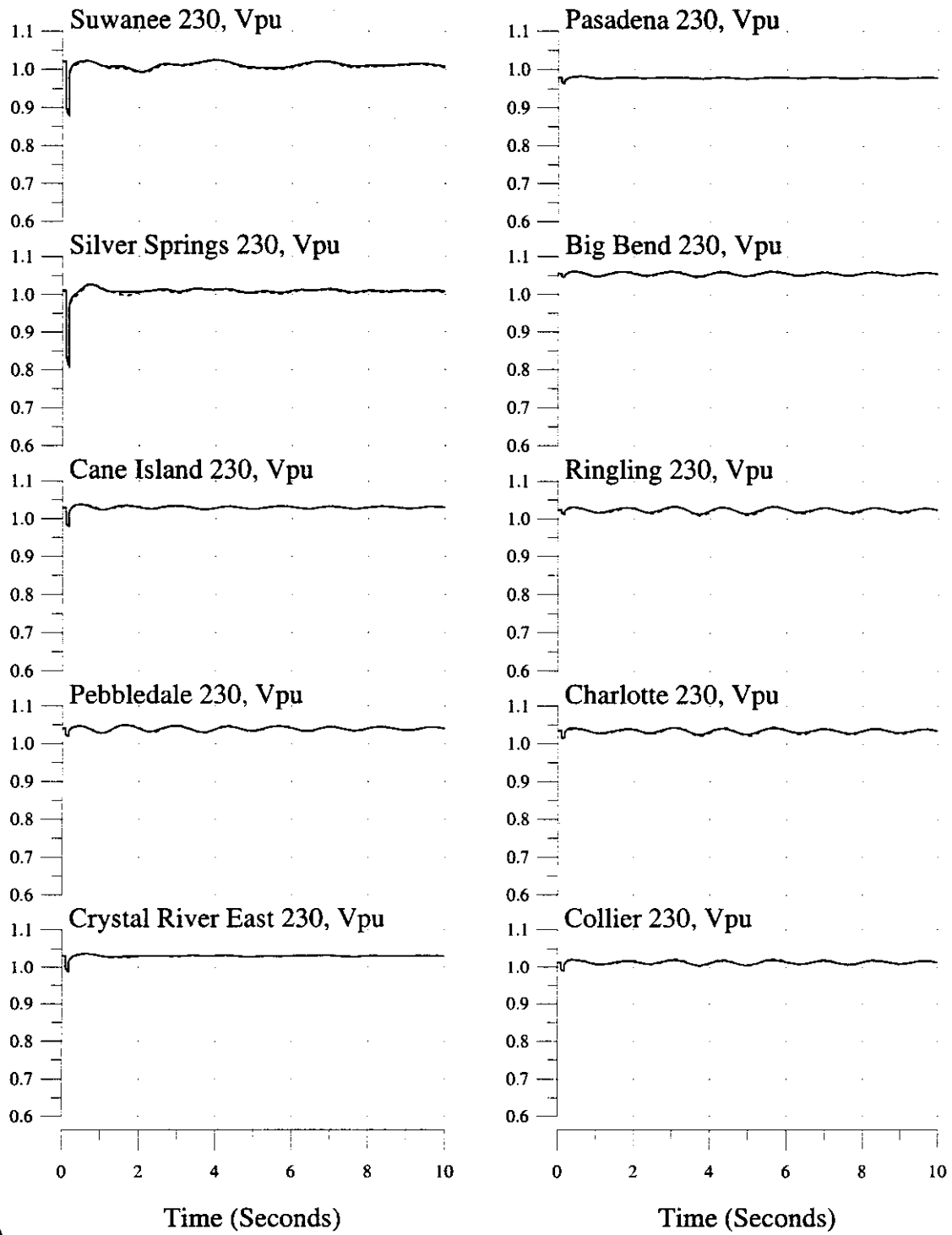
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



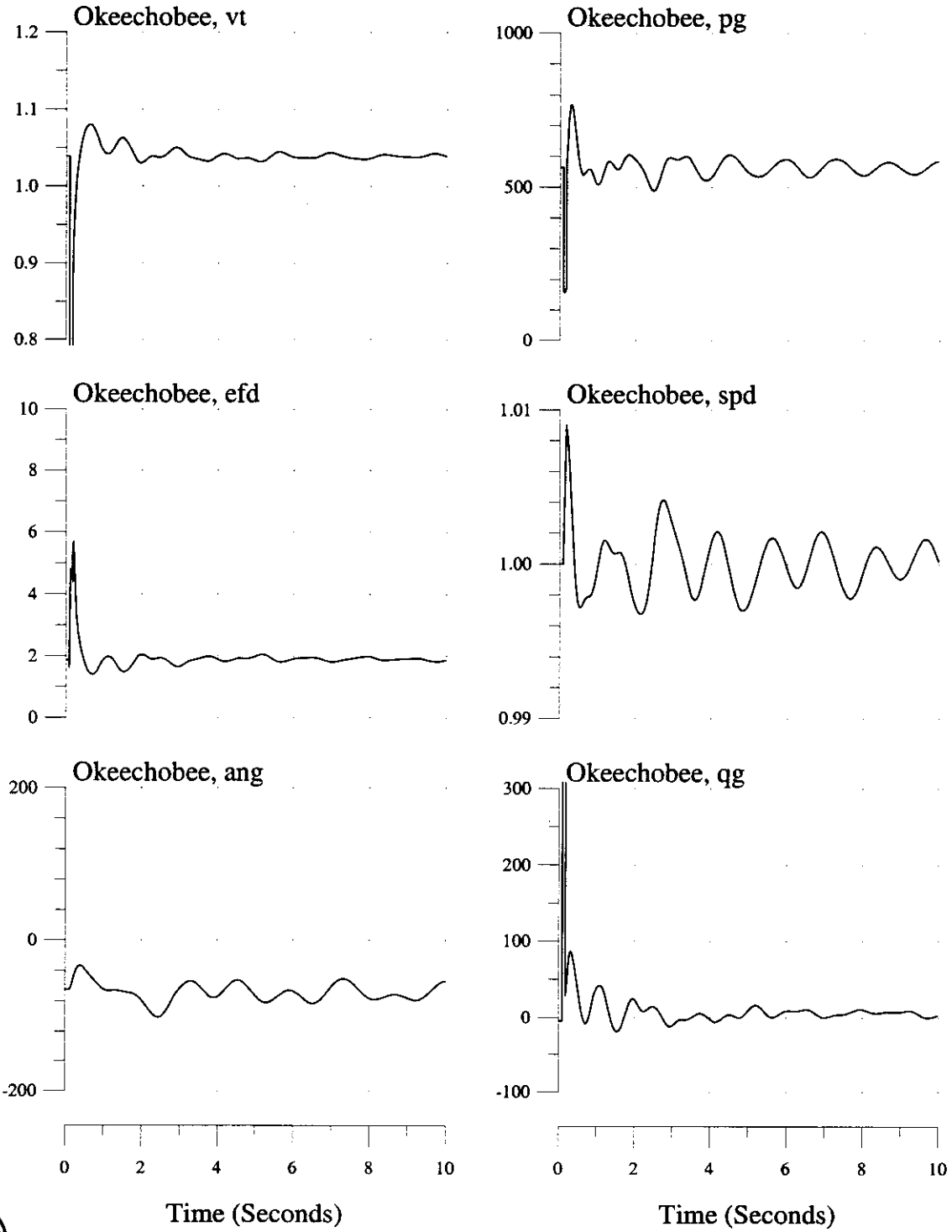
### 3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



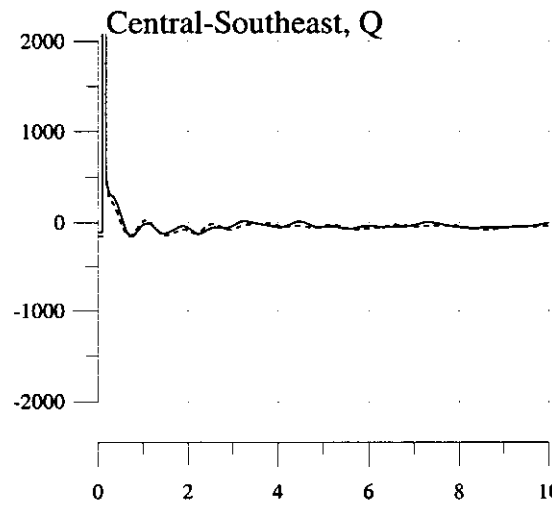
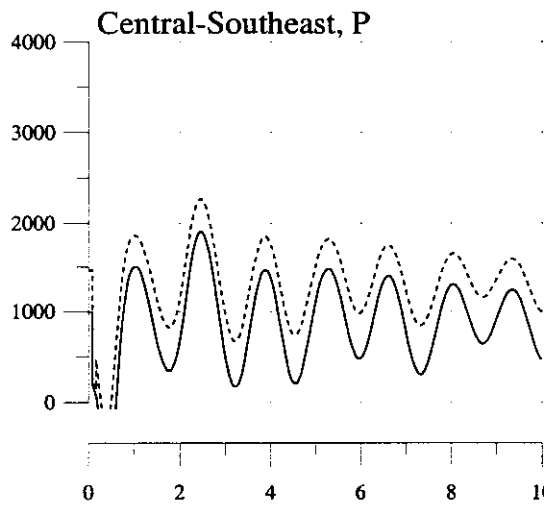
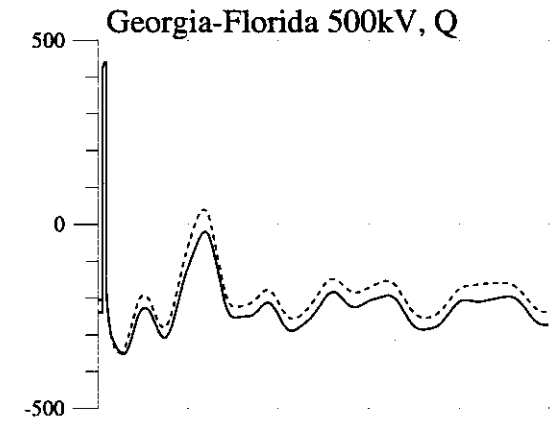
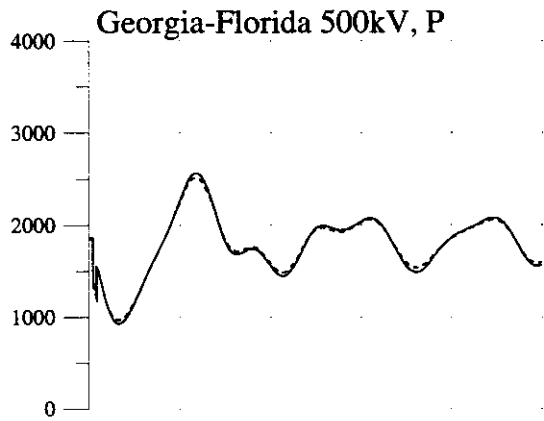
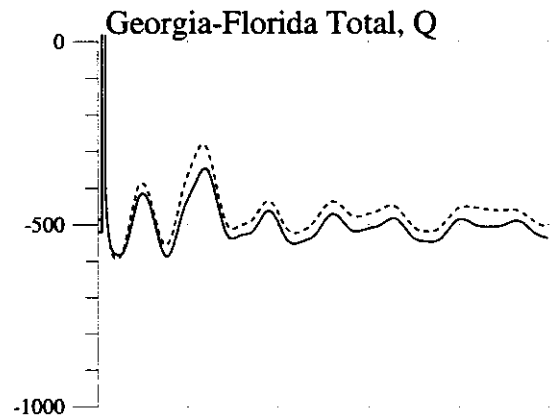
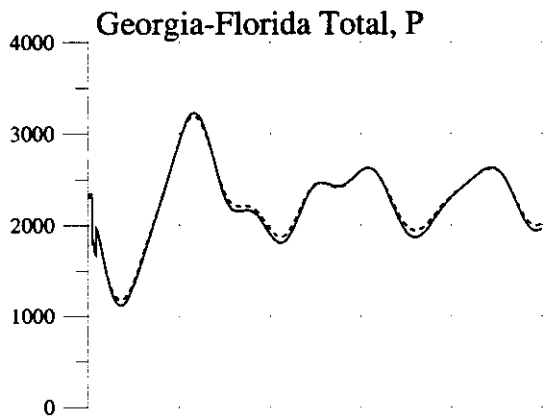
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



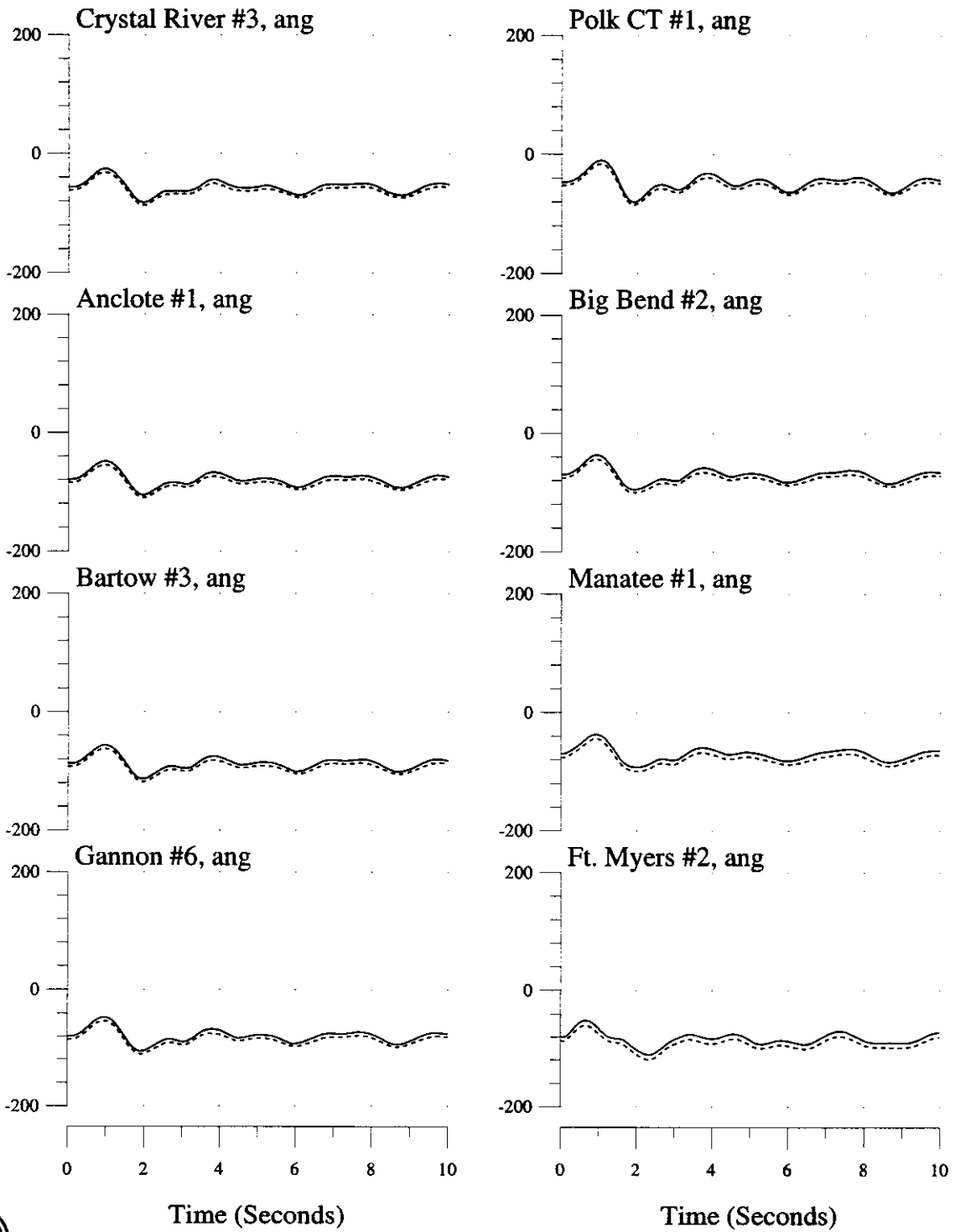
Time (Seconds)

Time (Seconds)



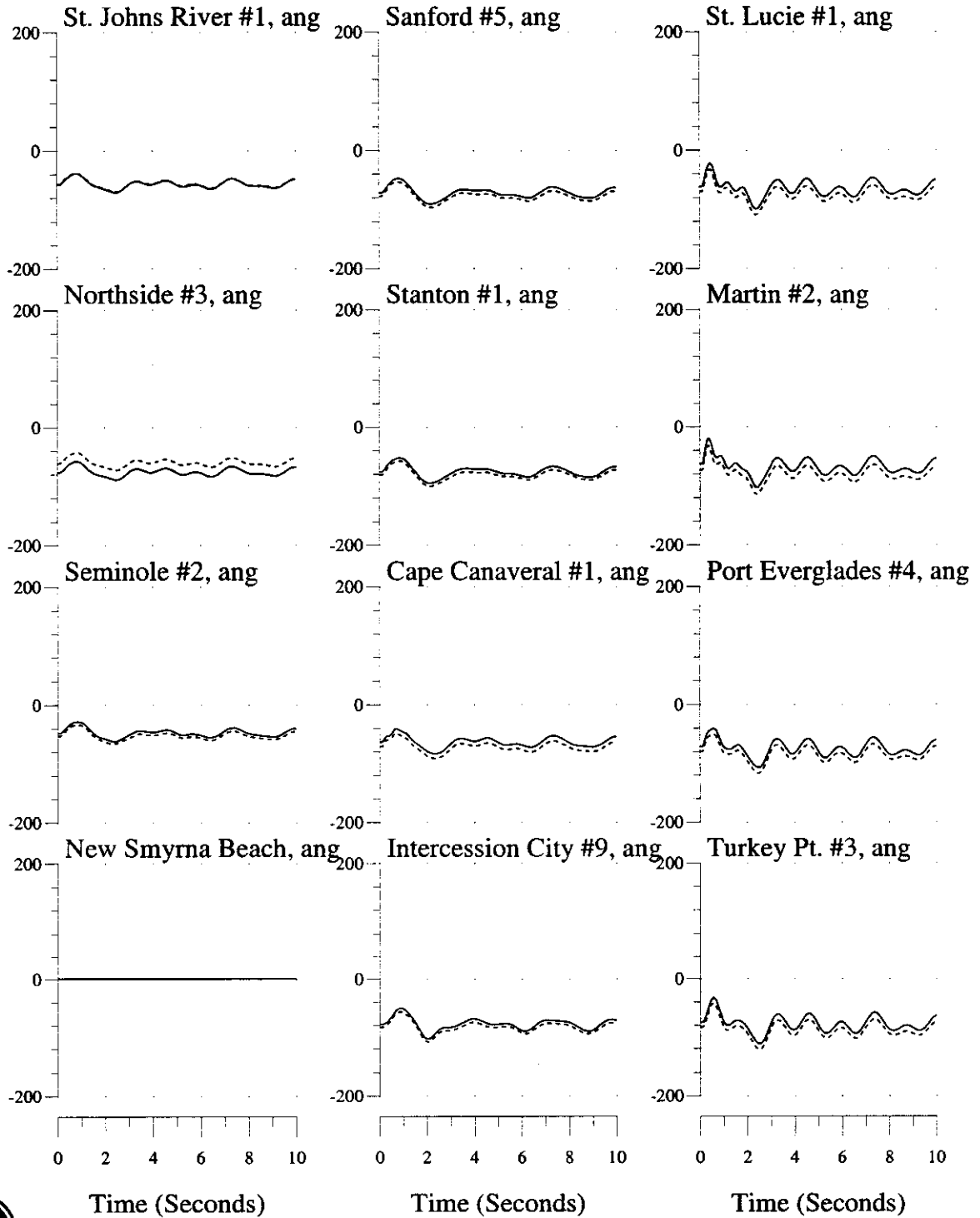
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

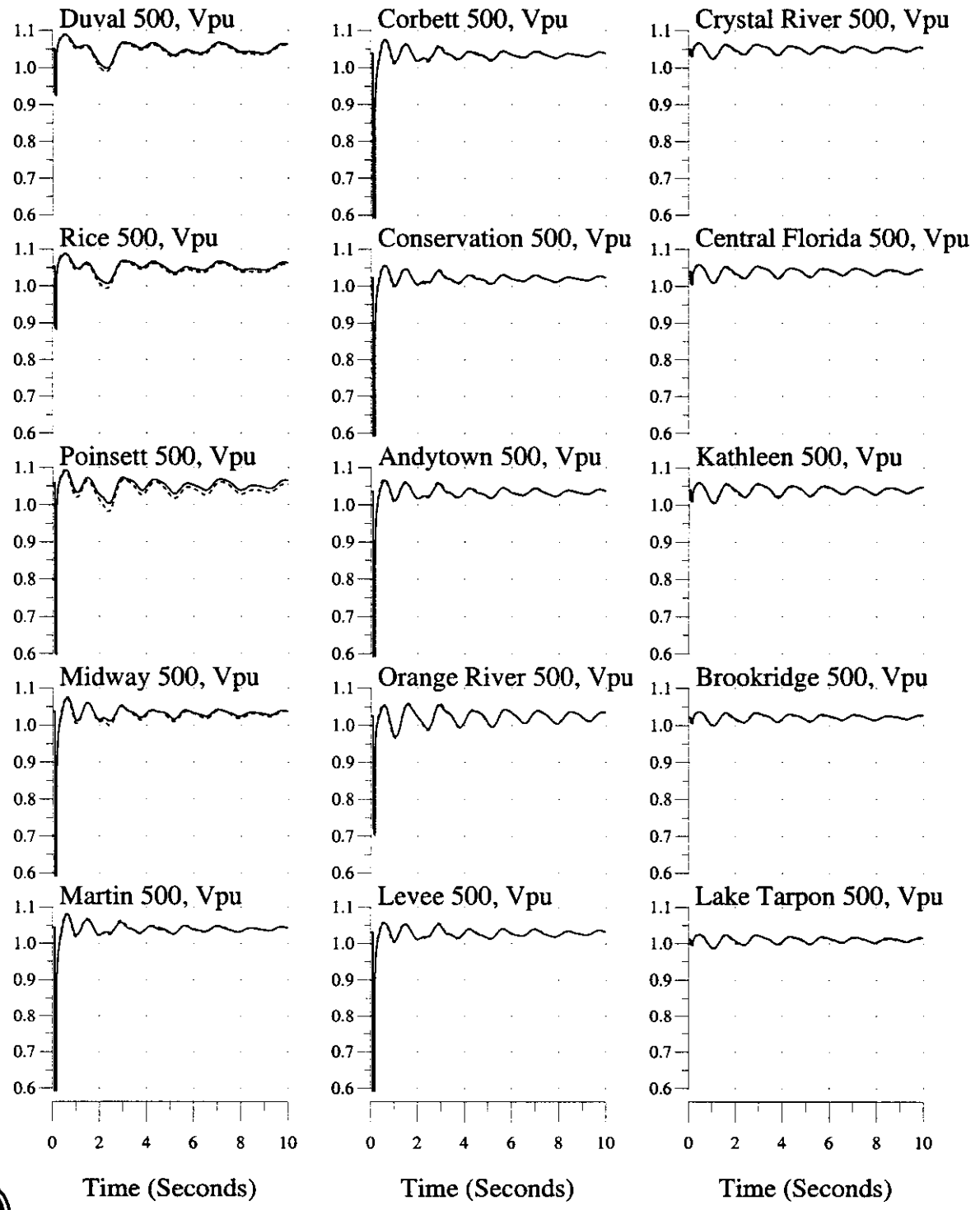
Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without





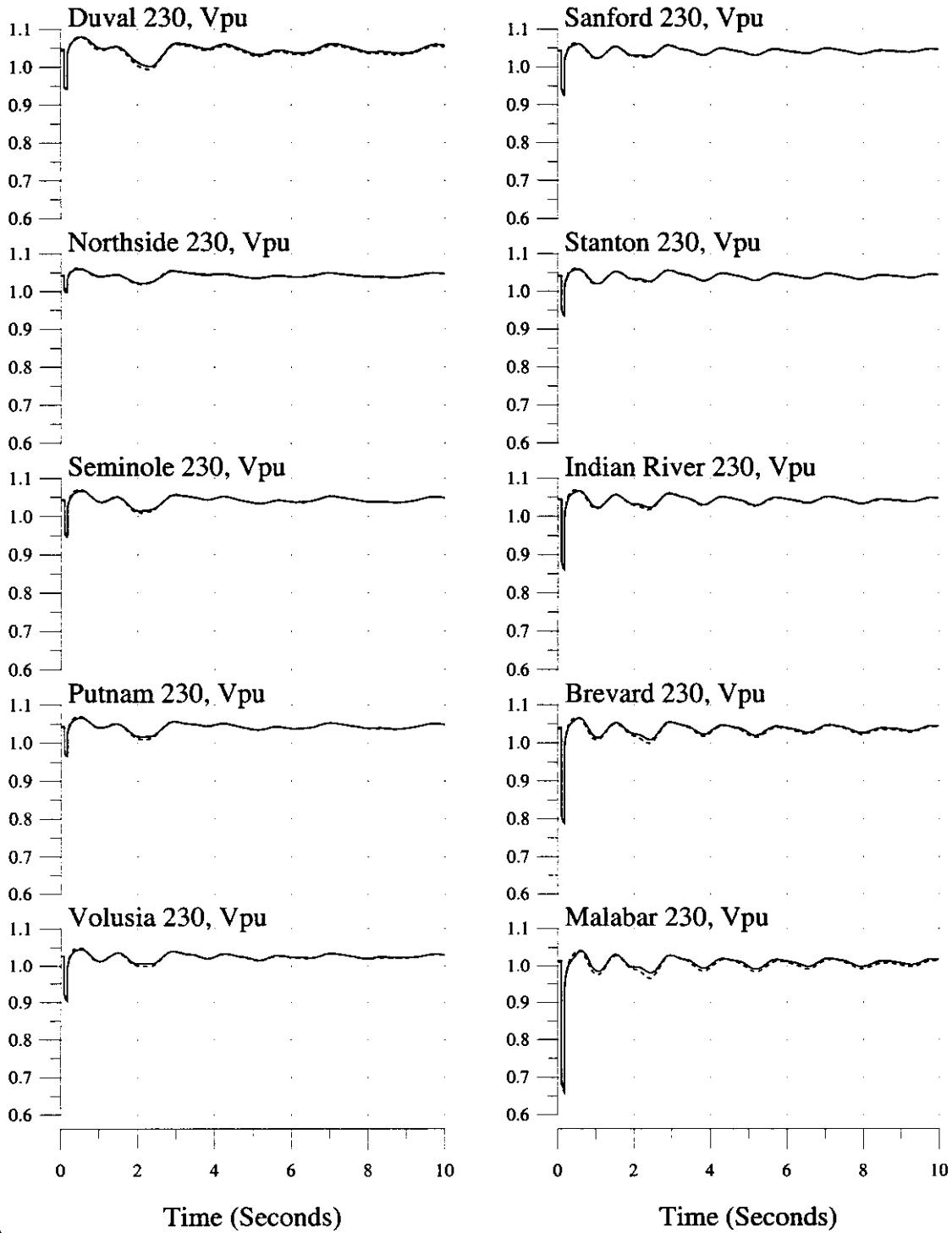
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



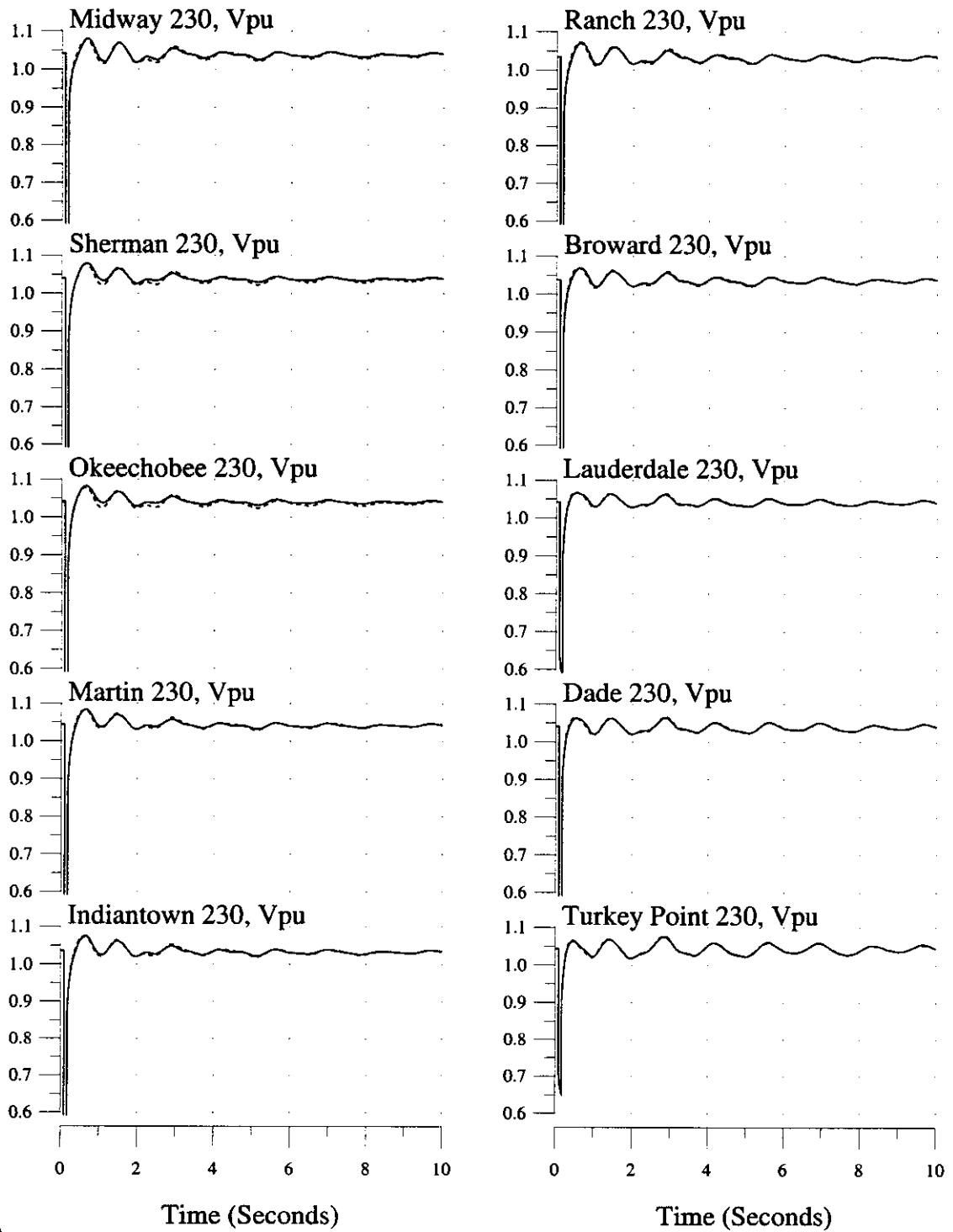
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



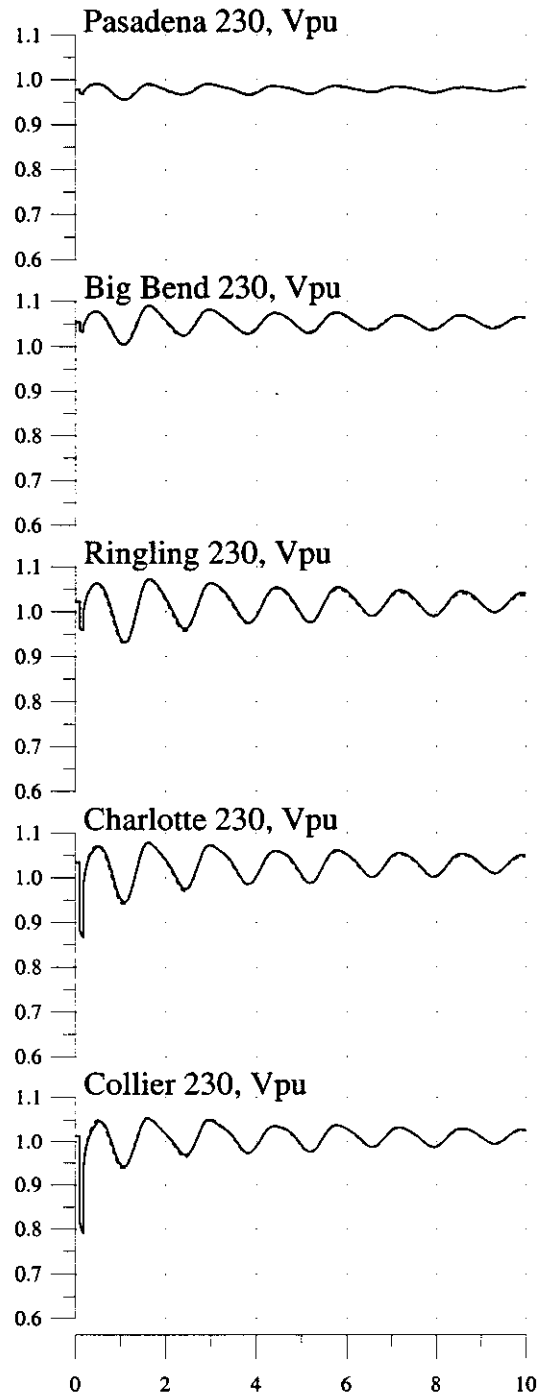
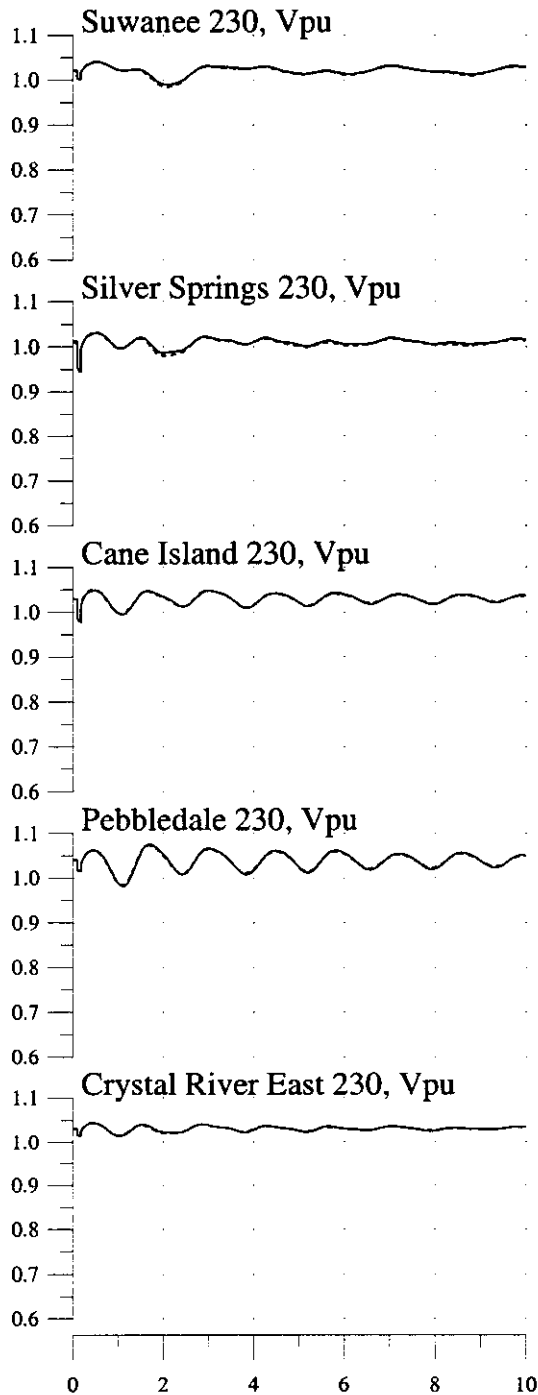
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



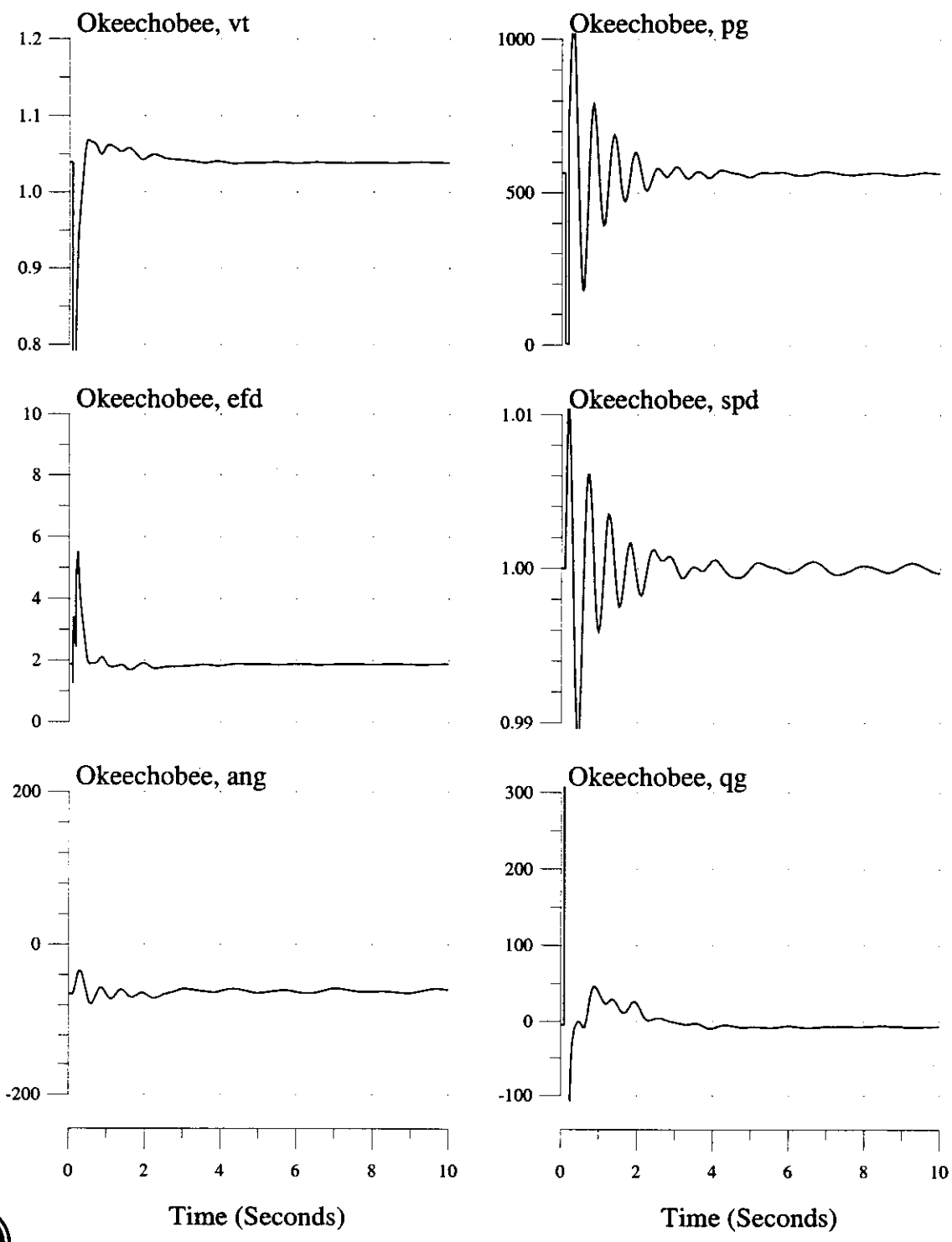
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



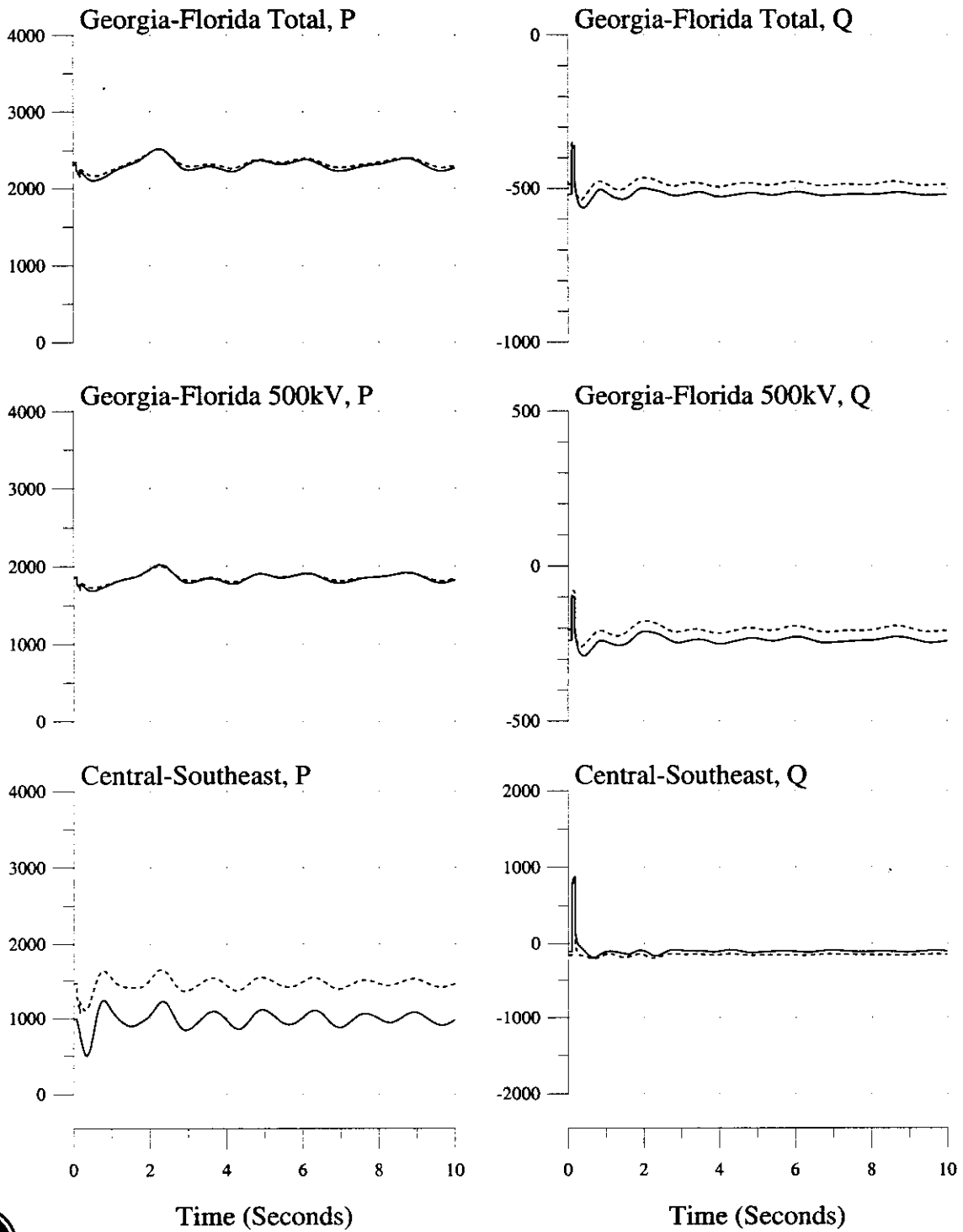
# 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line 2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



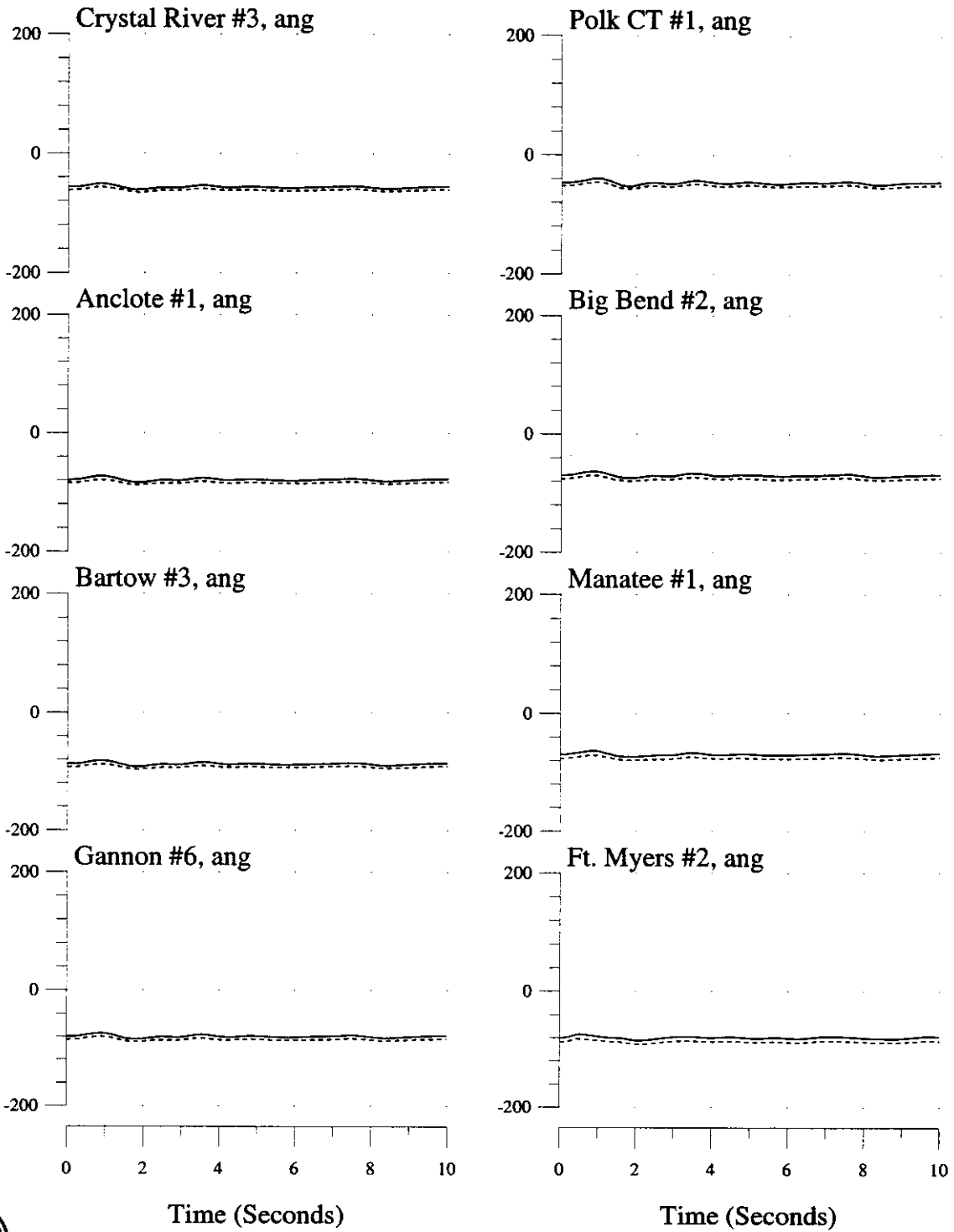
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



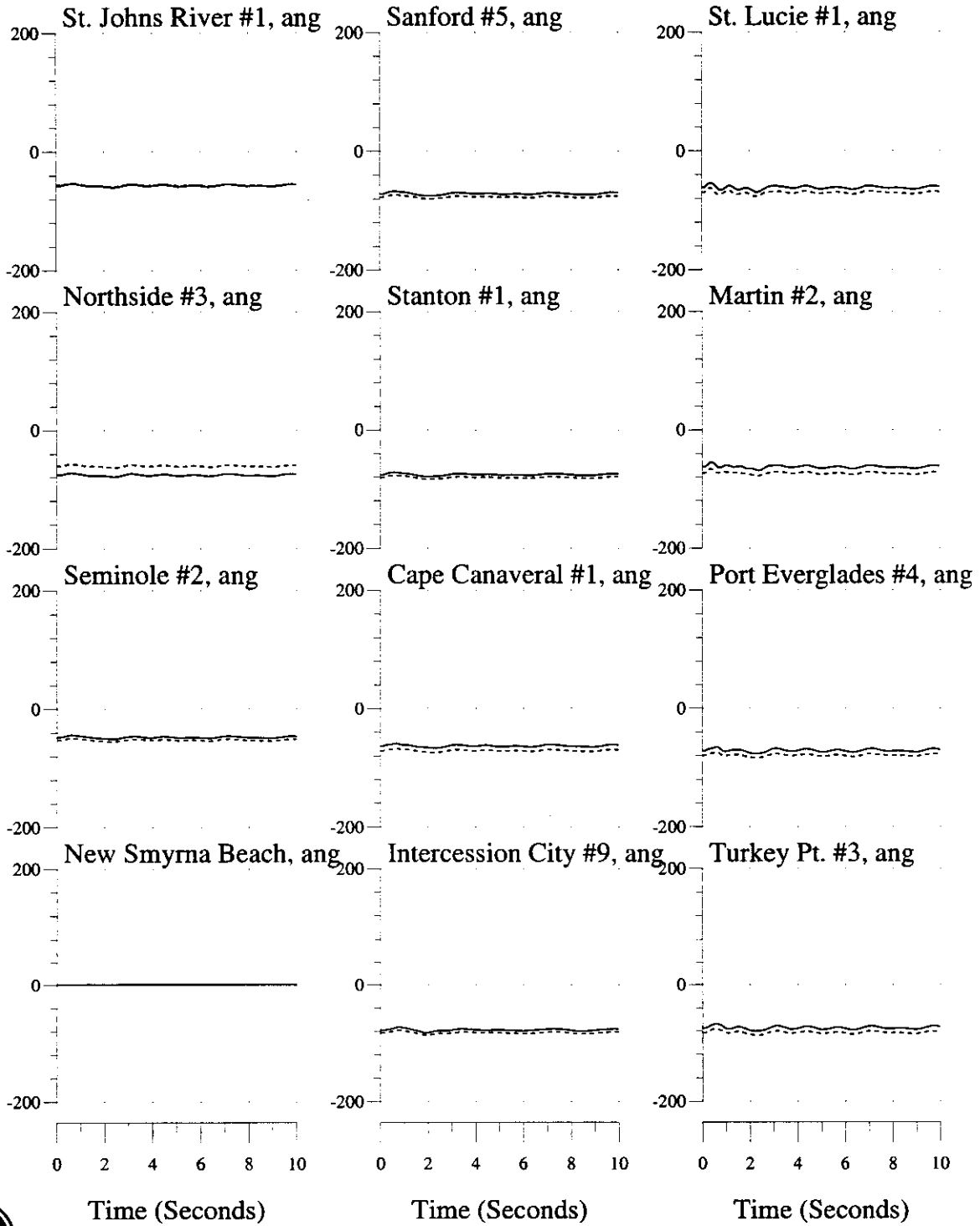
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

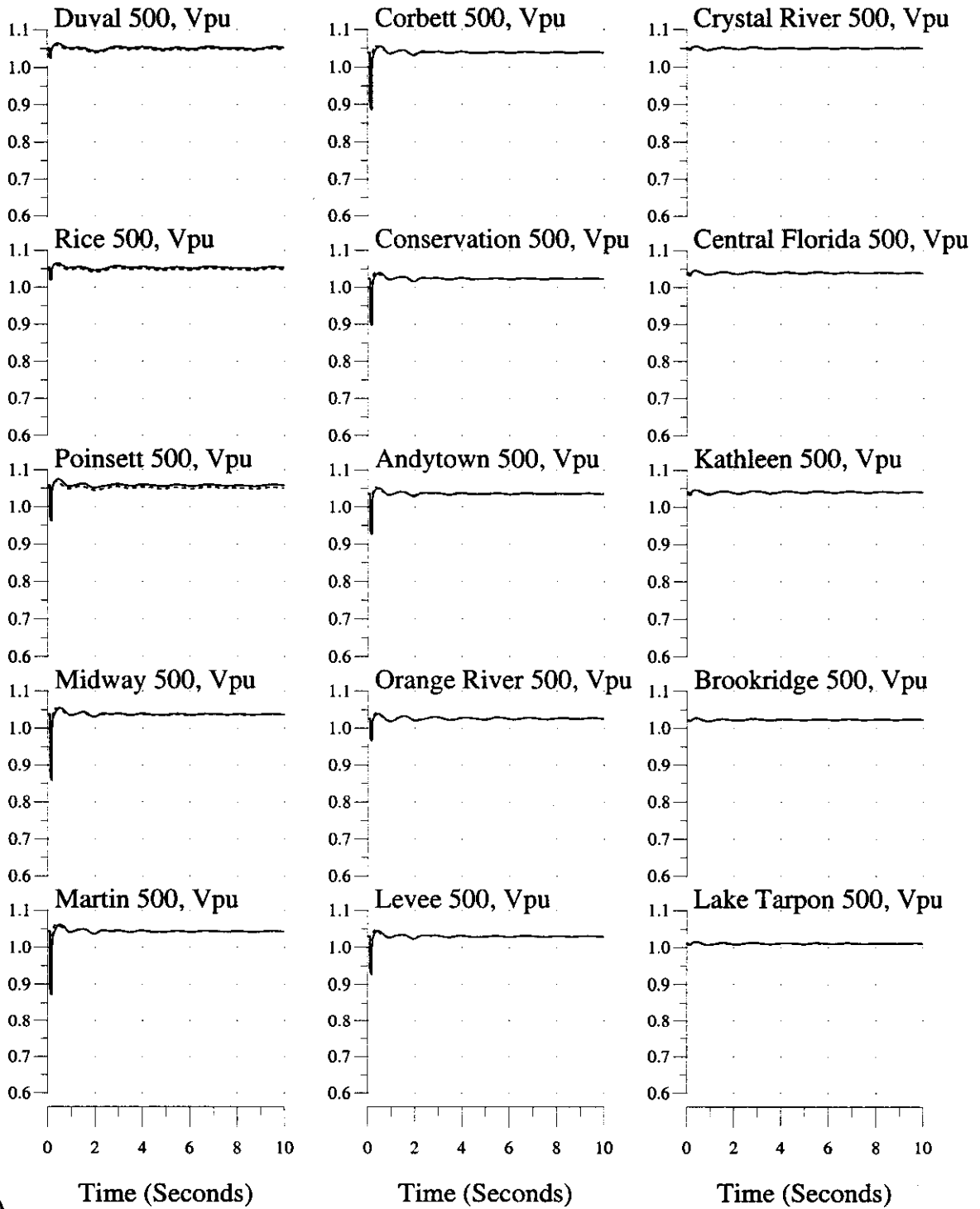
Machine Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without





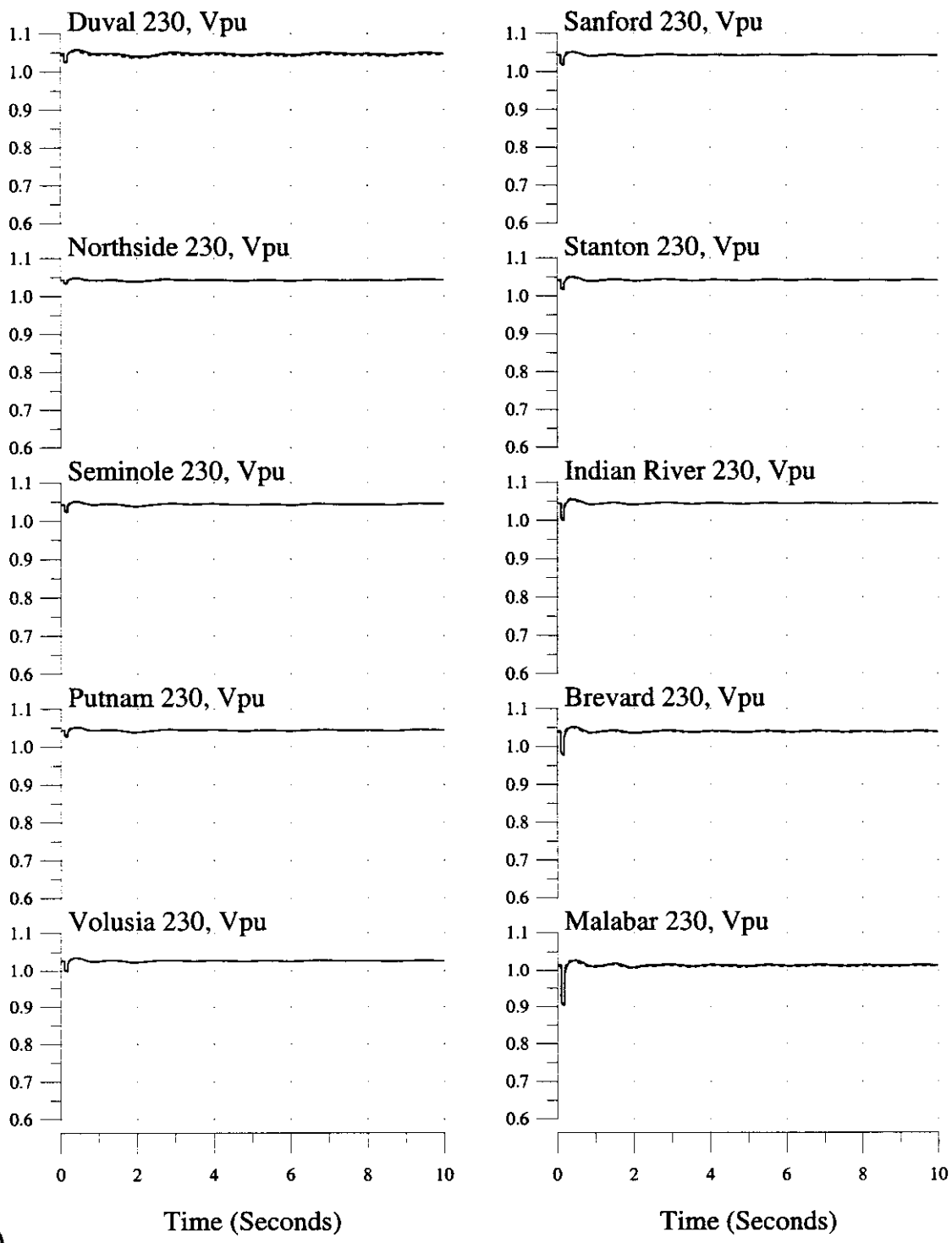
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



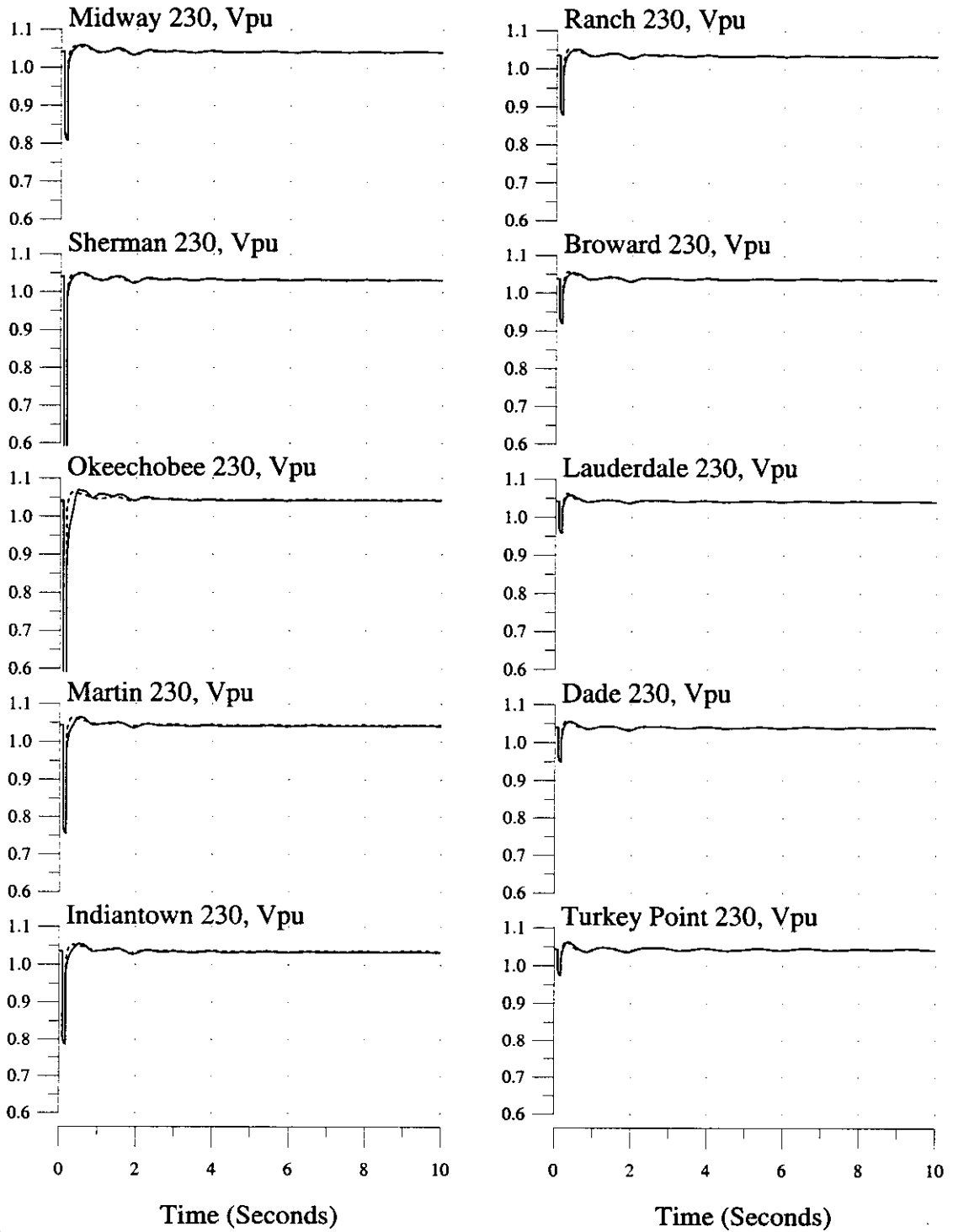
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



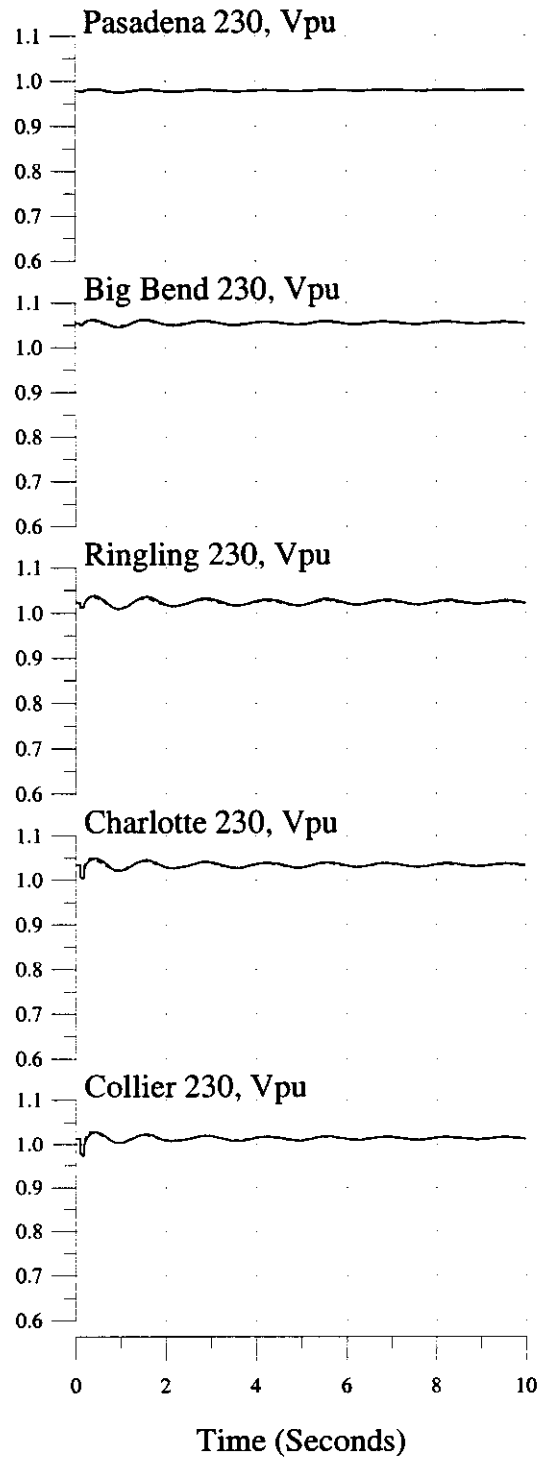
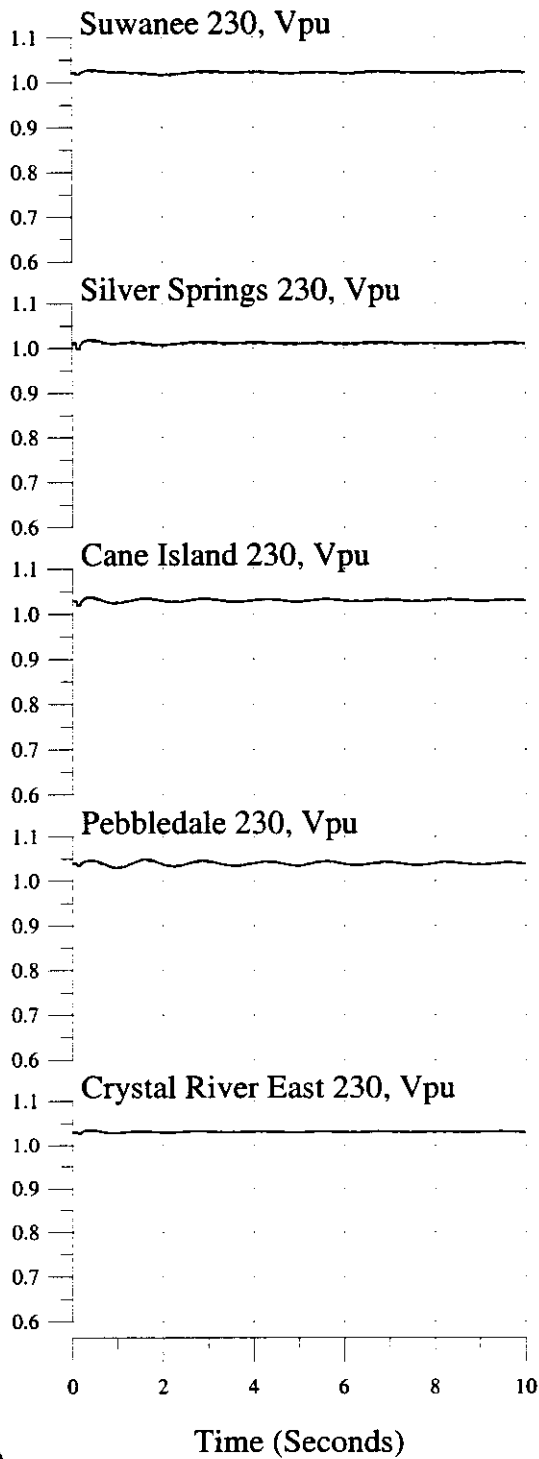
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



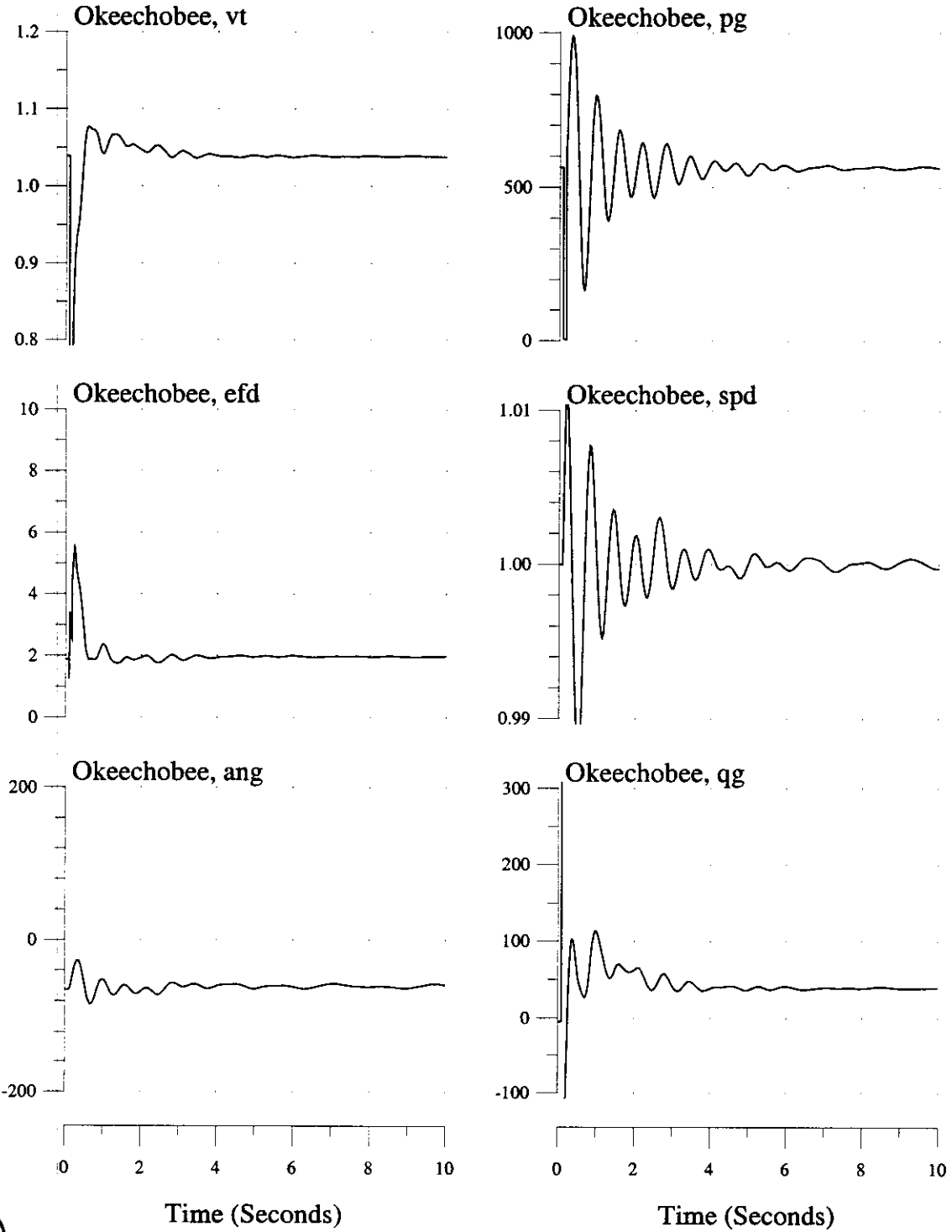
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



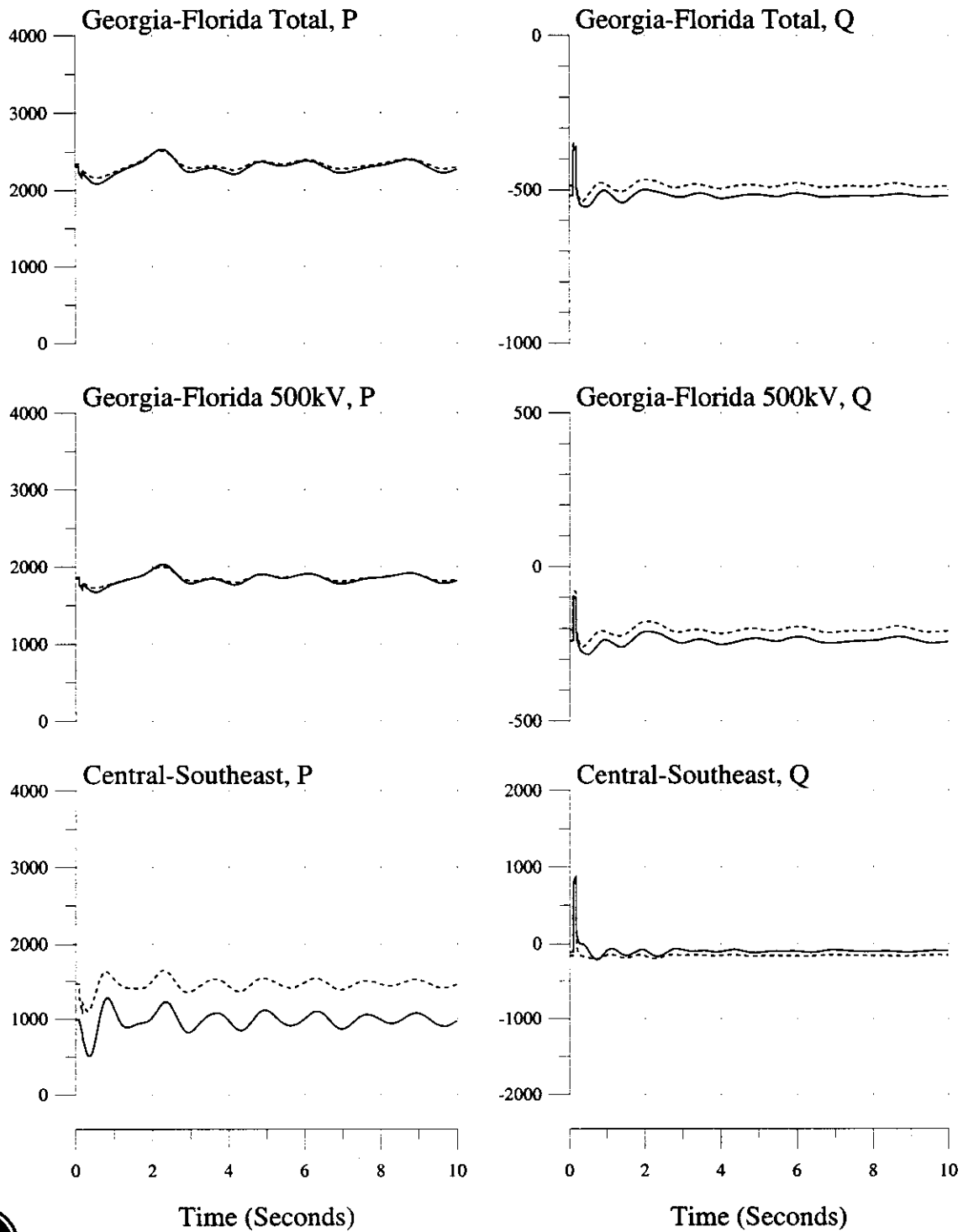
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



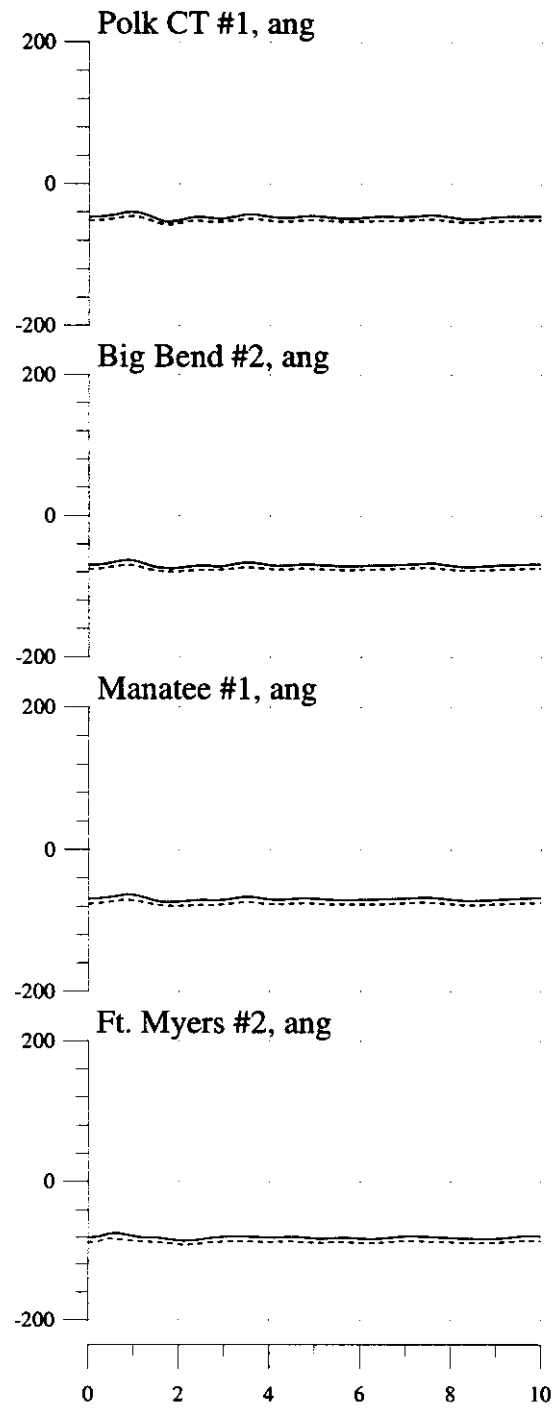
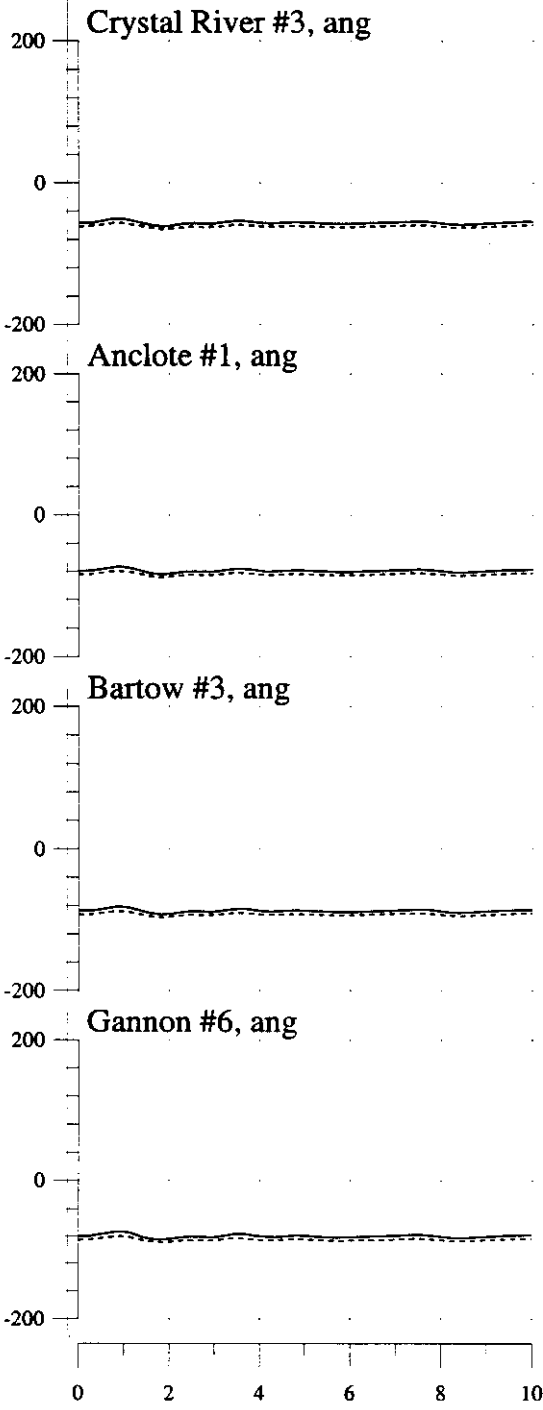
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



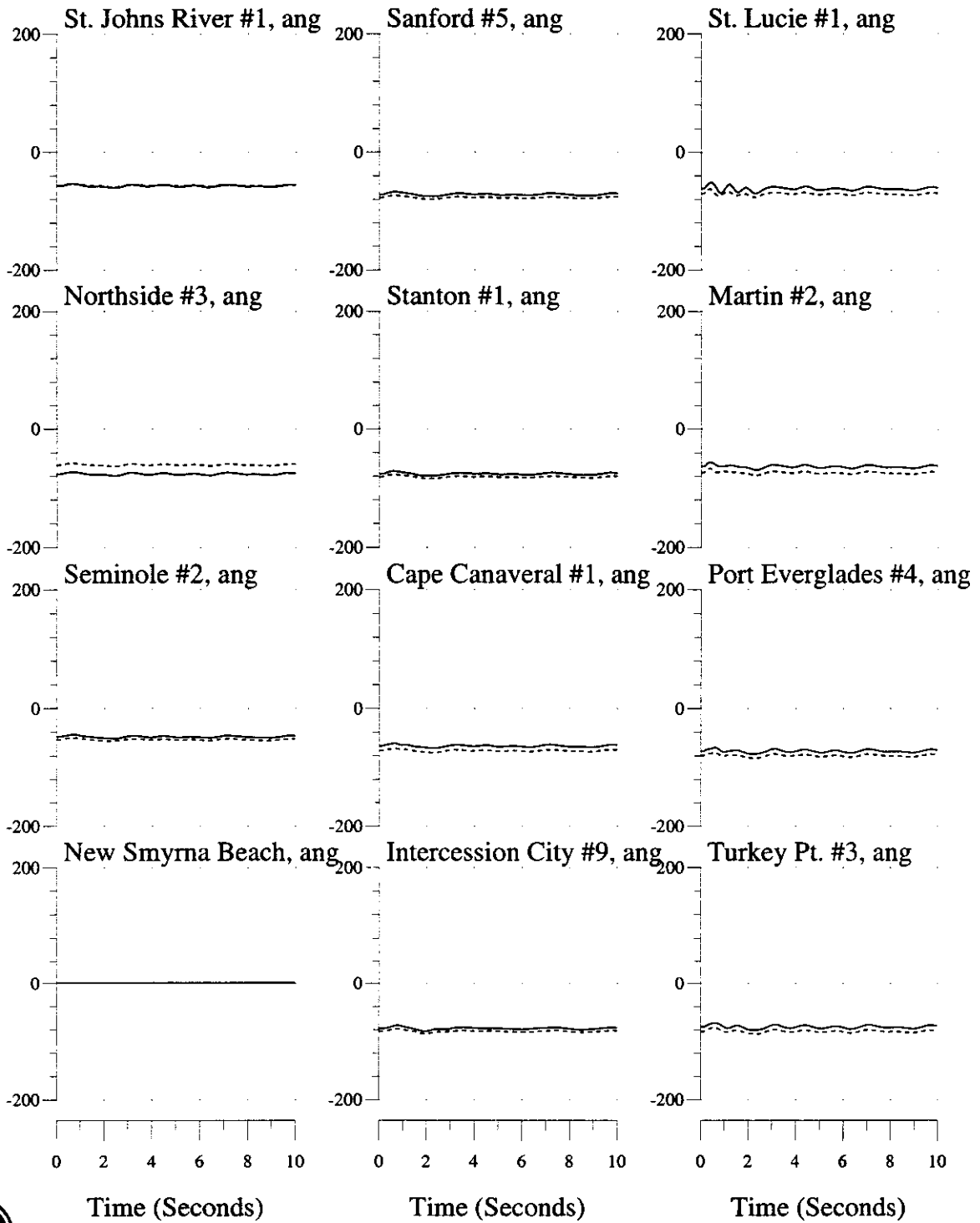
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System

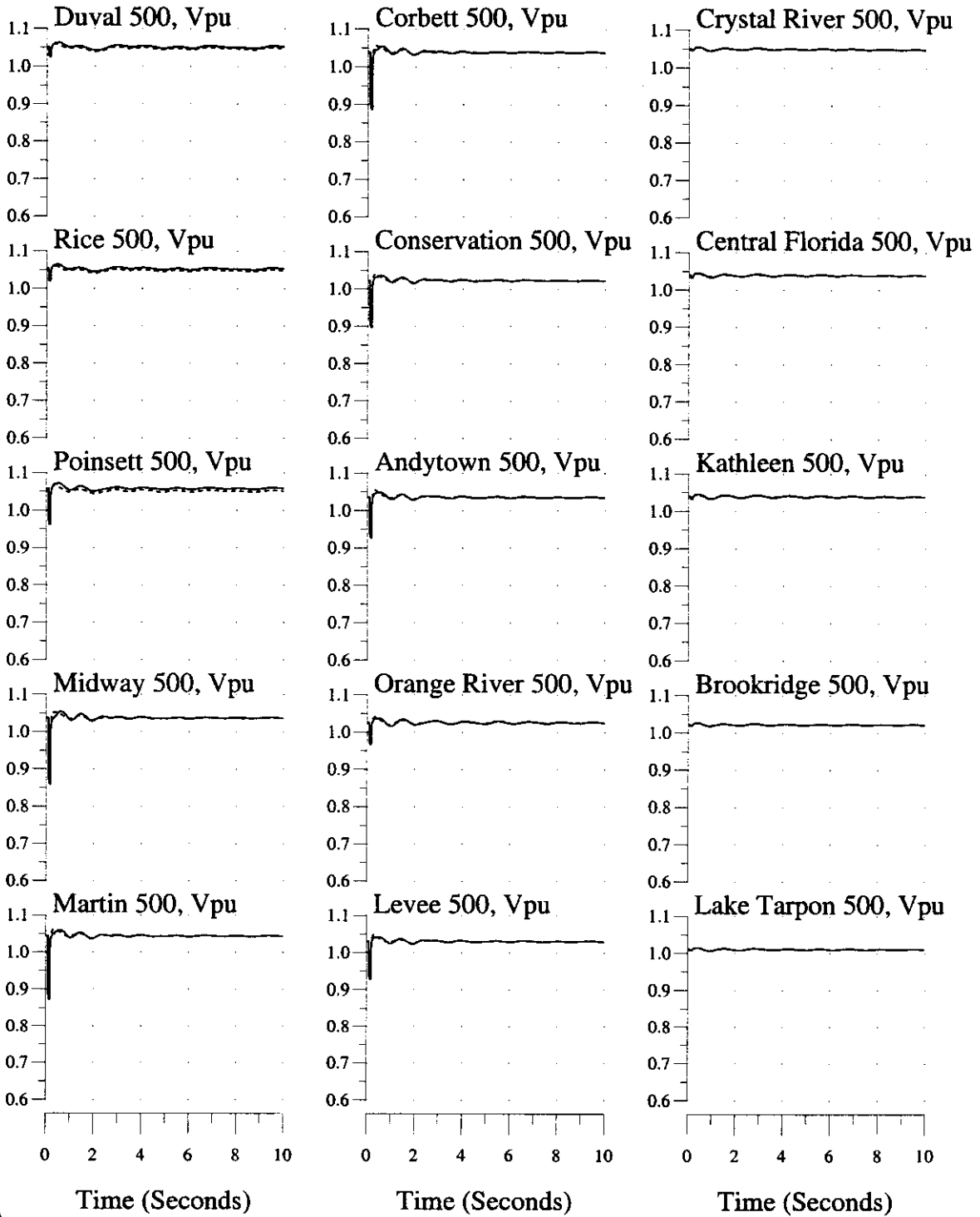
Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without





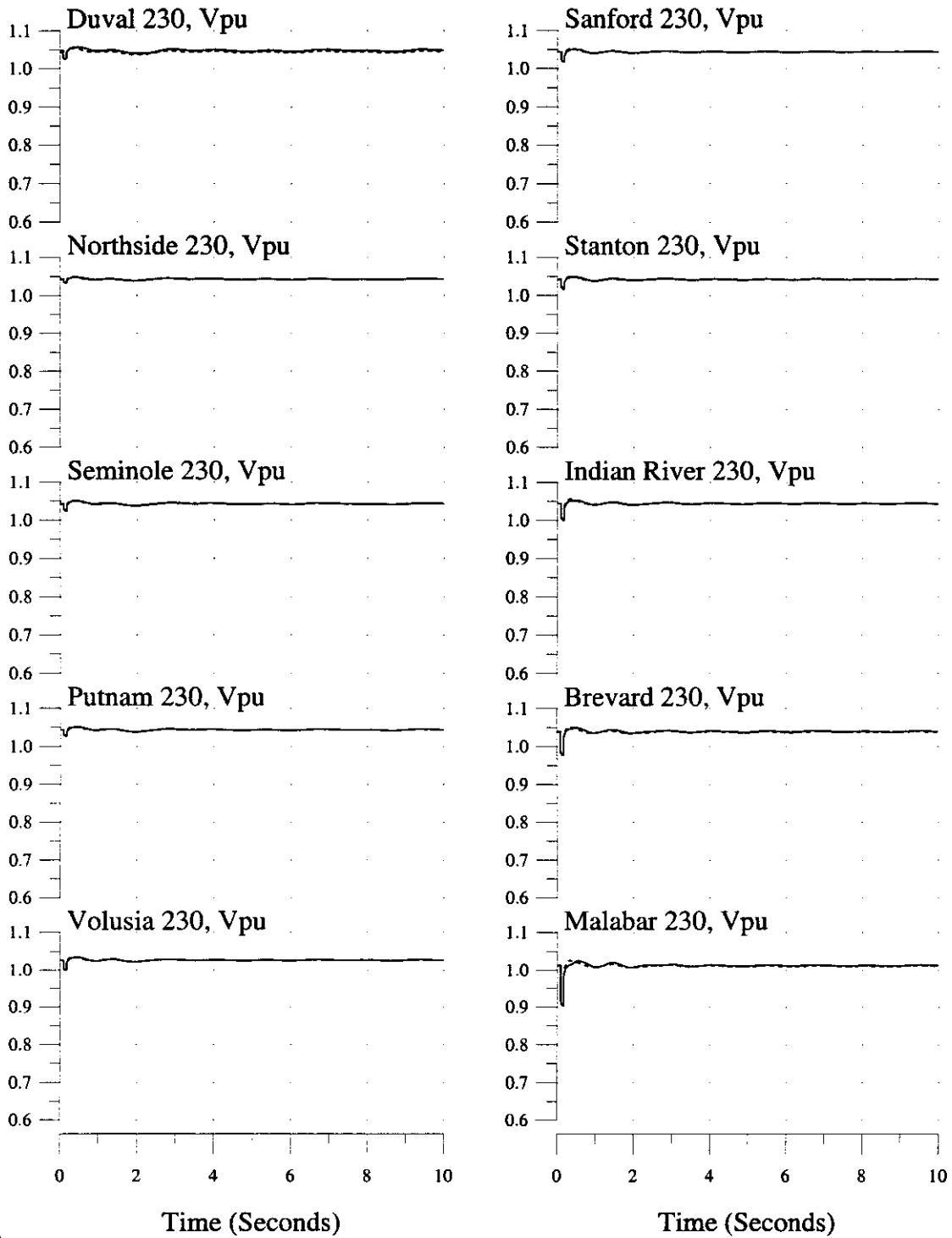
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



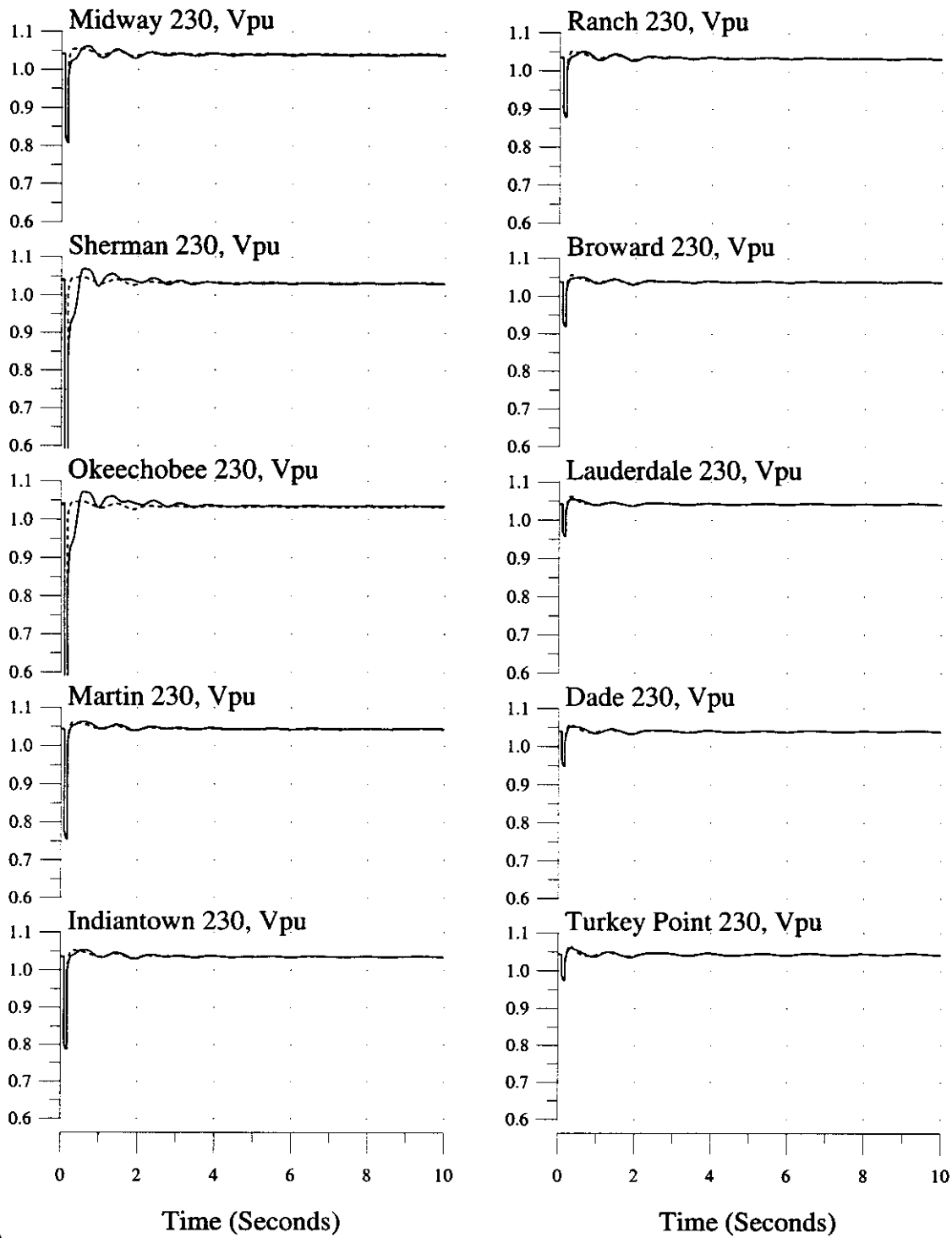
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



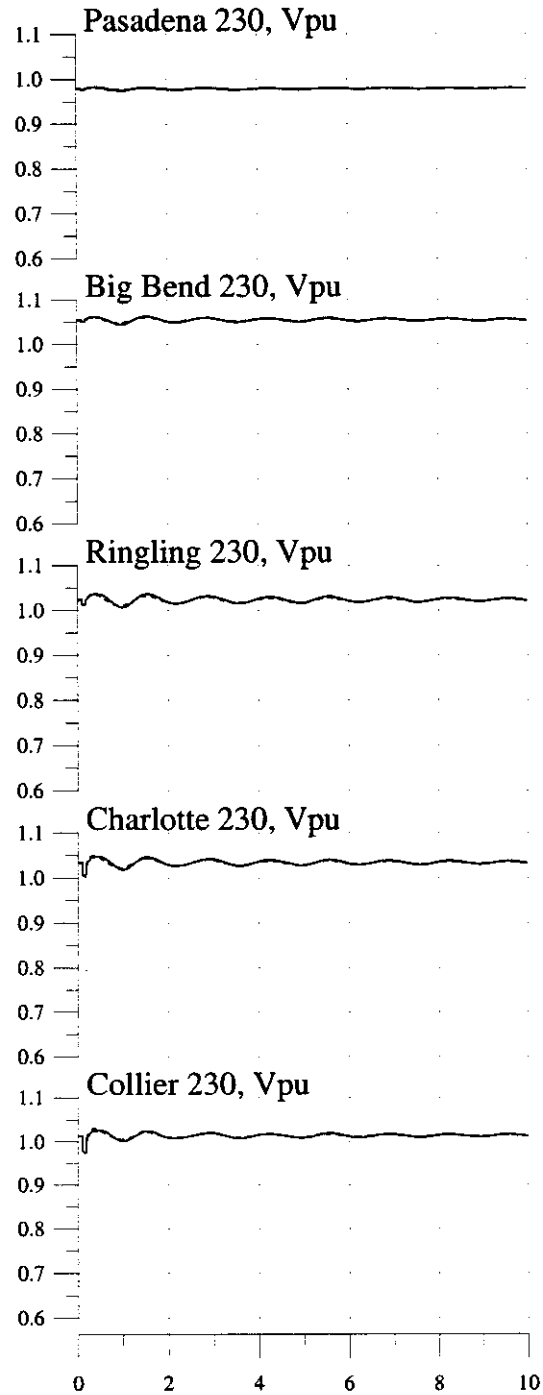
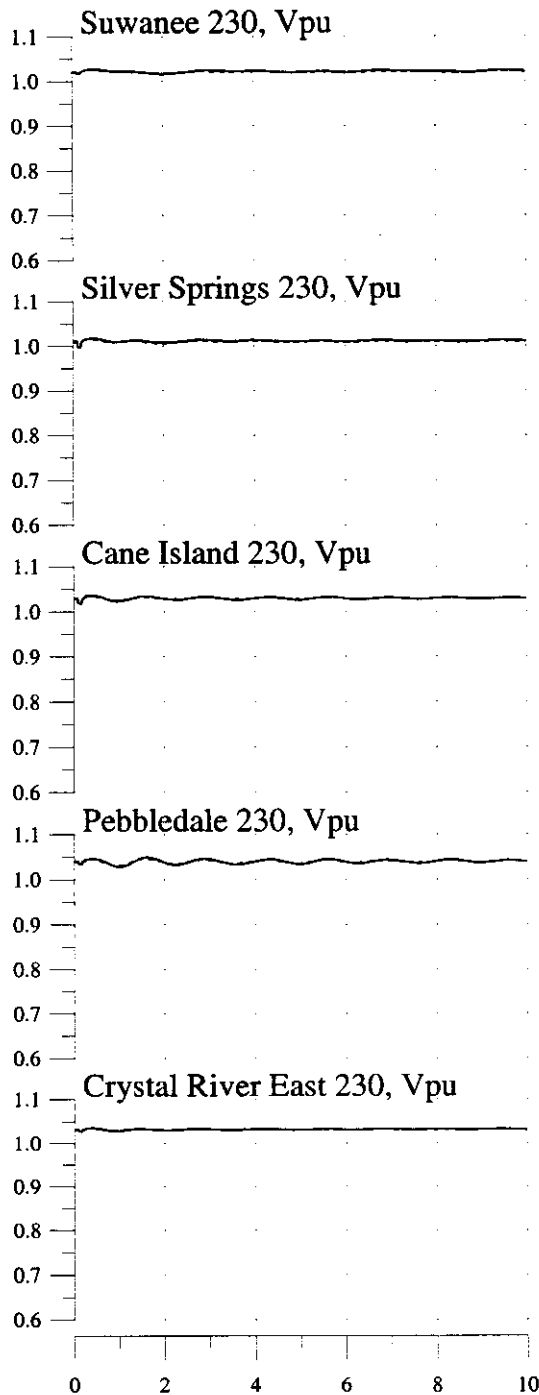
# 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



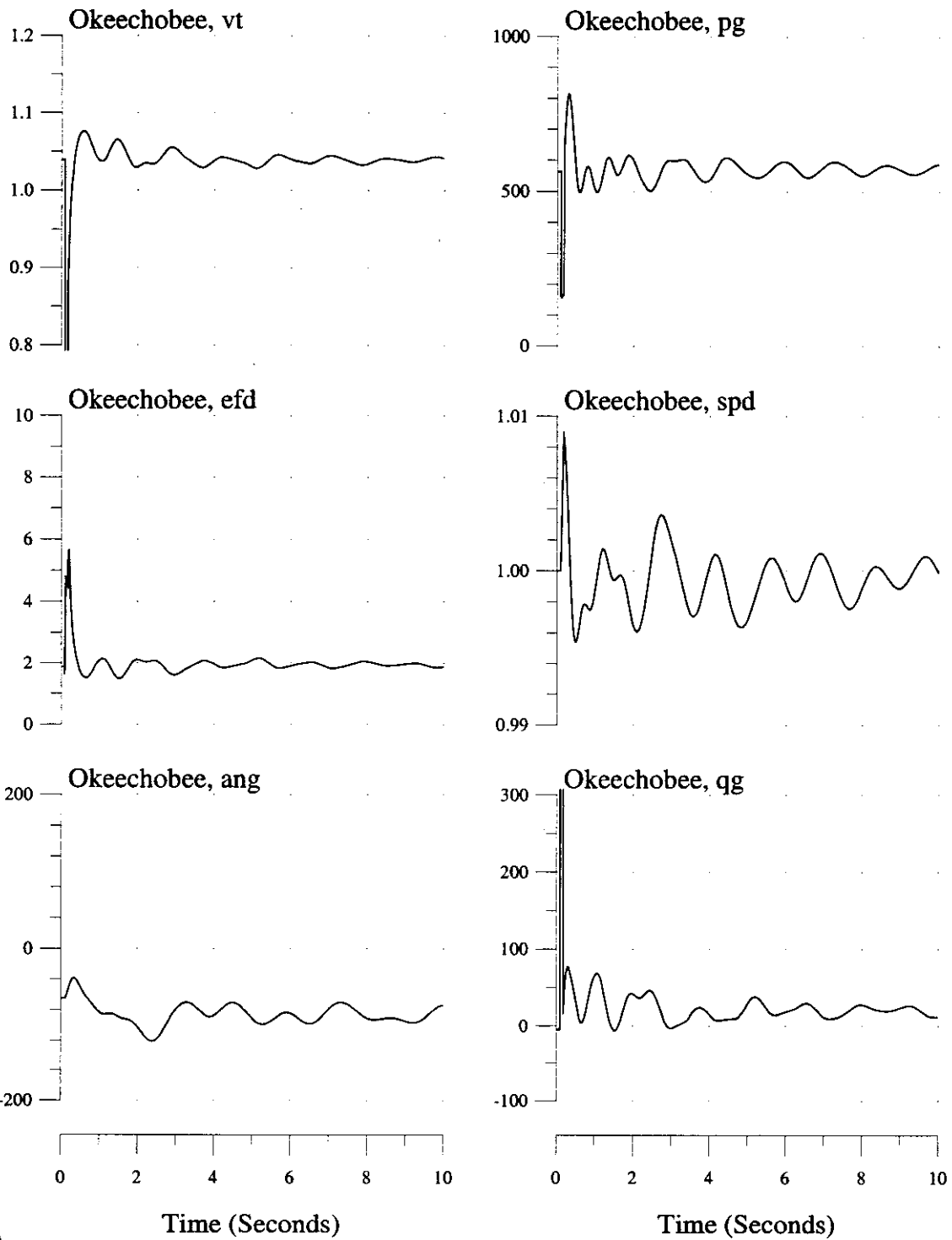
# 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



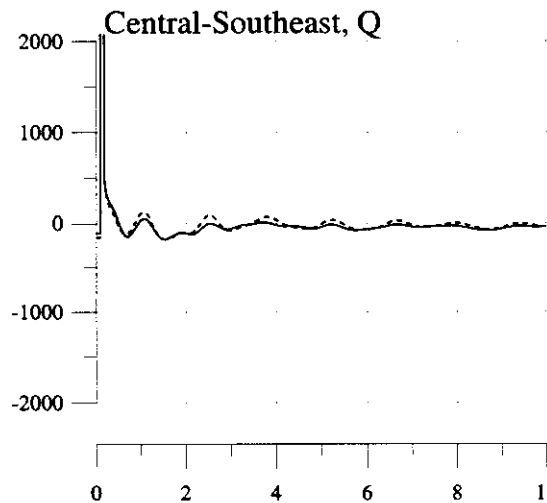
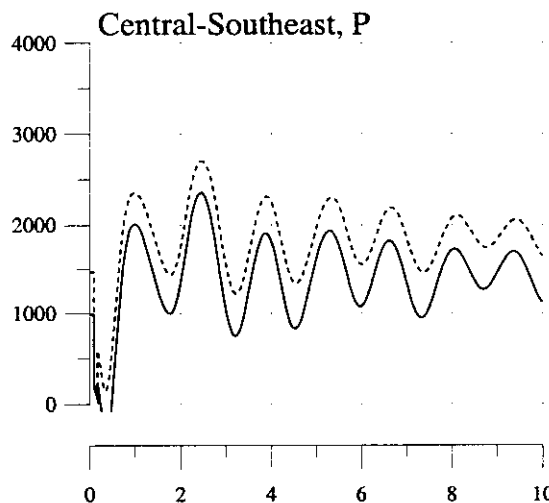
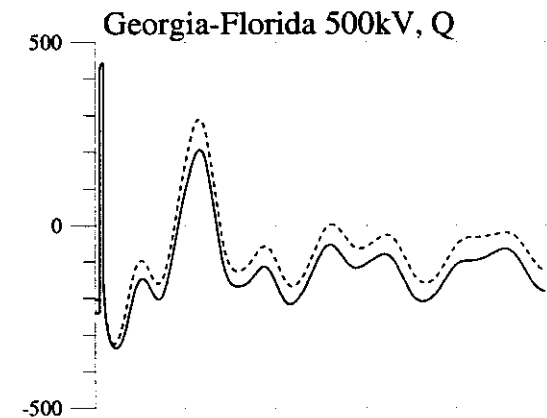
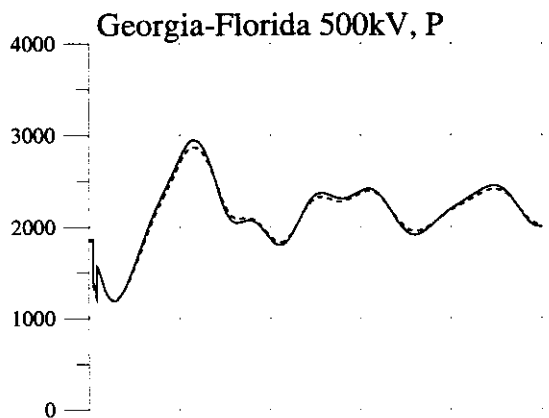
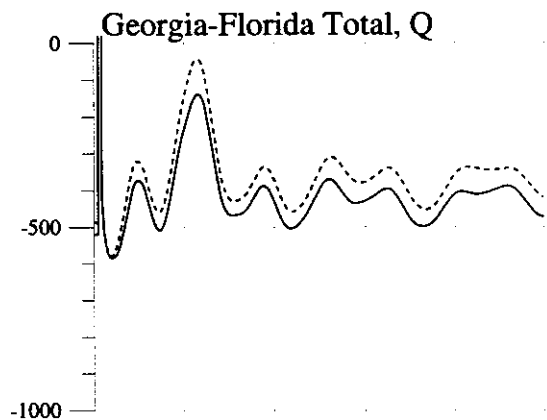
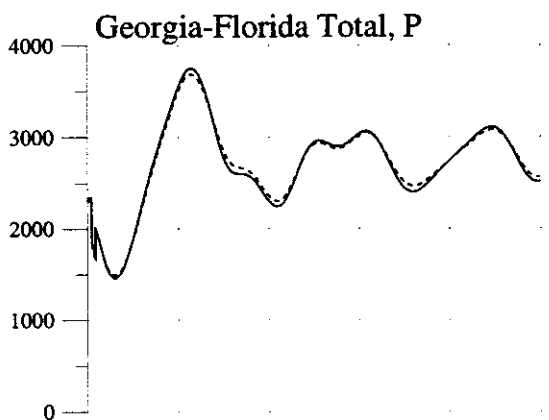
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



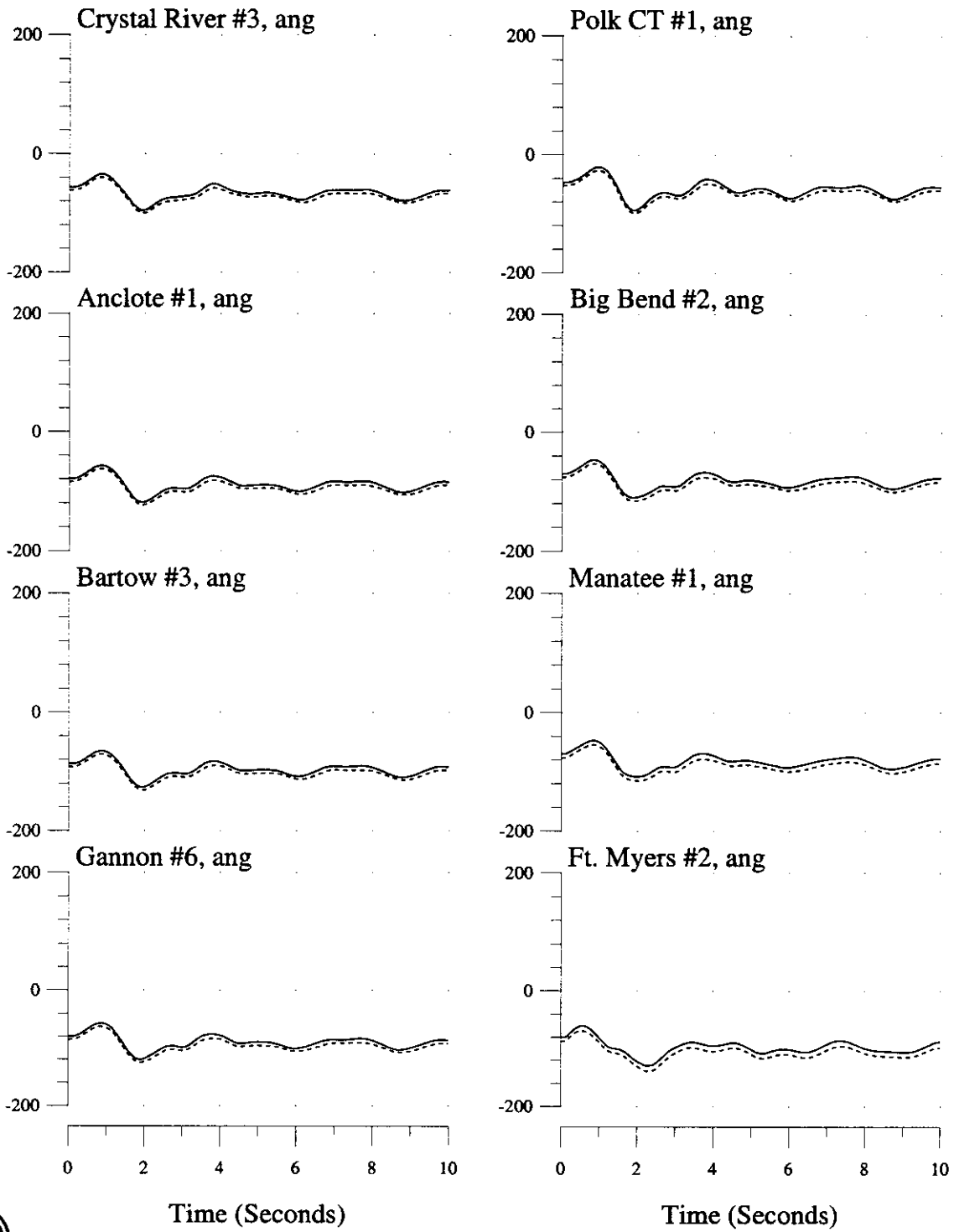
Time (Seconds)

Time (Seconds)



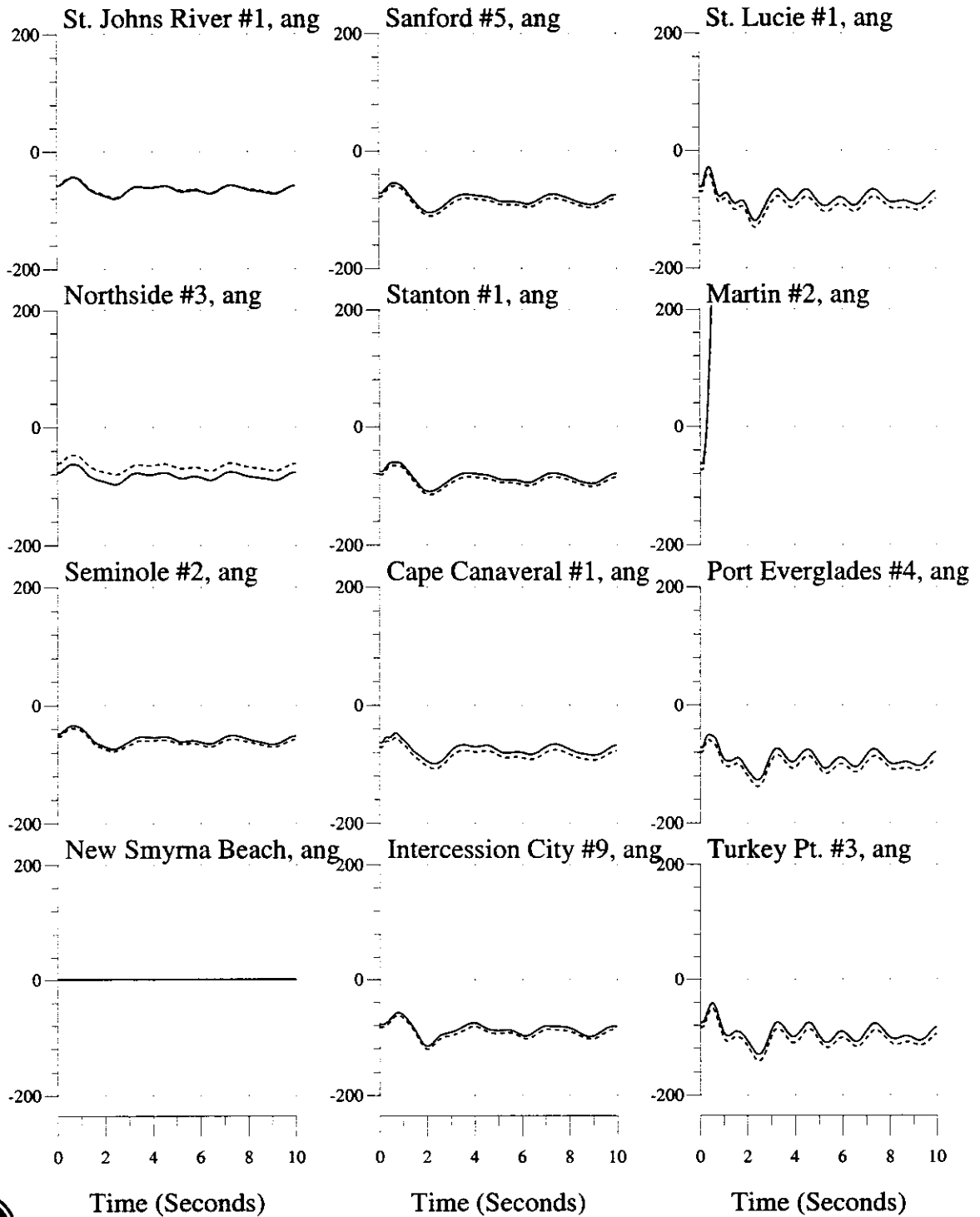
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

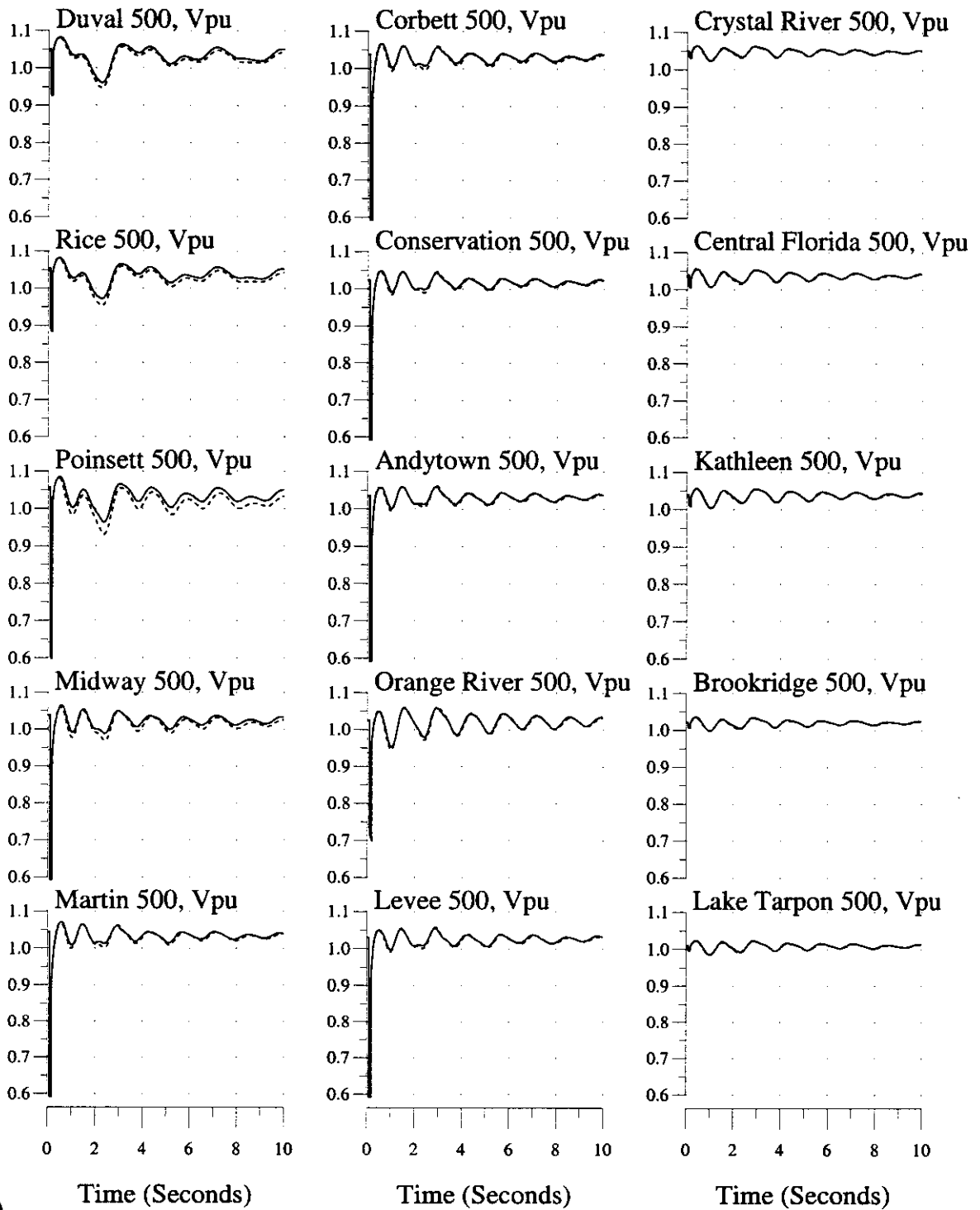
Machine Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without





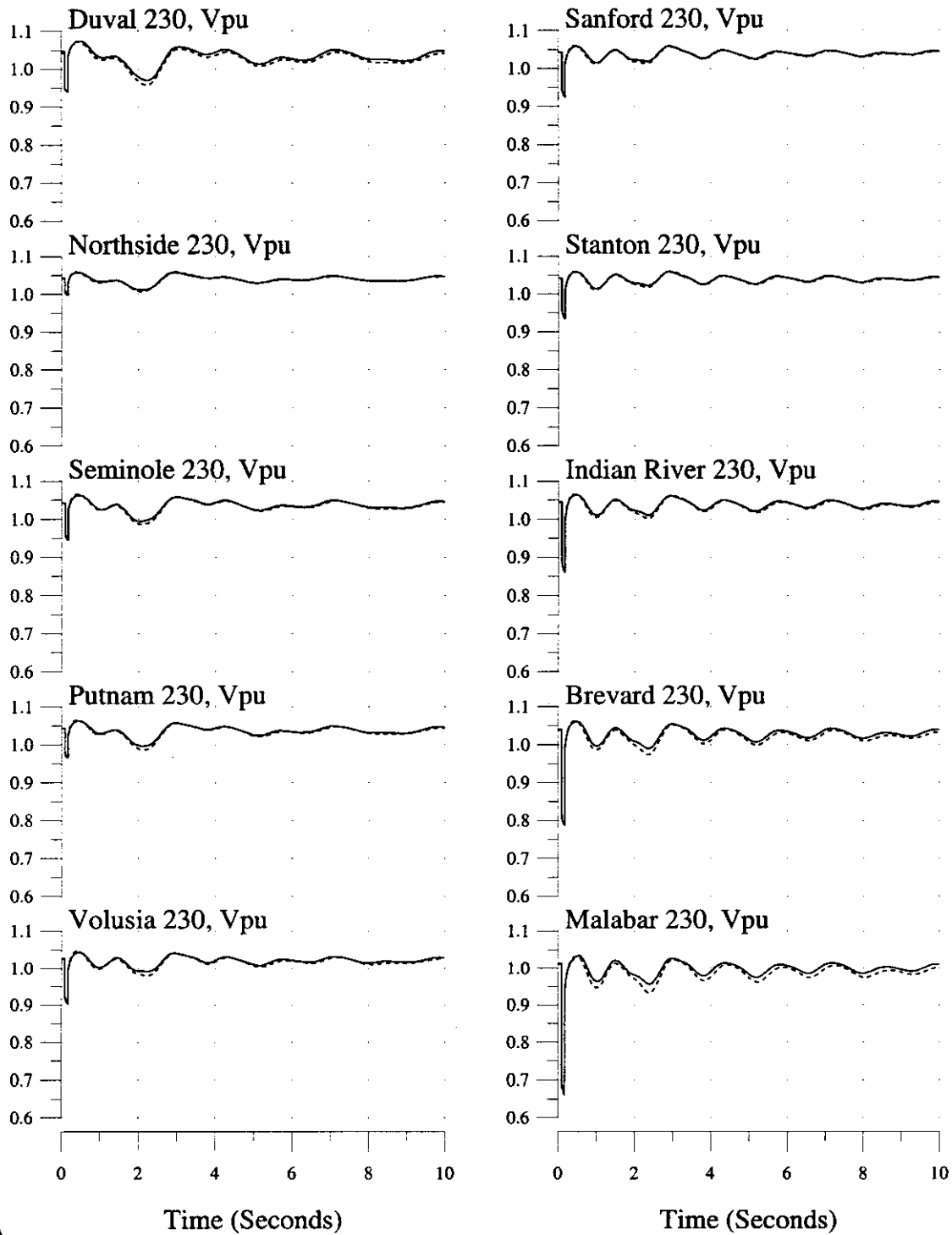
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



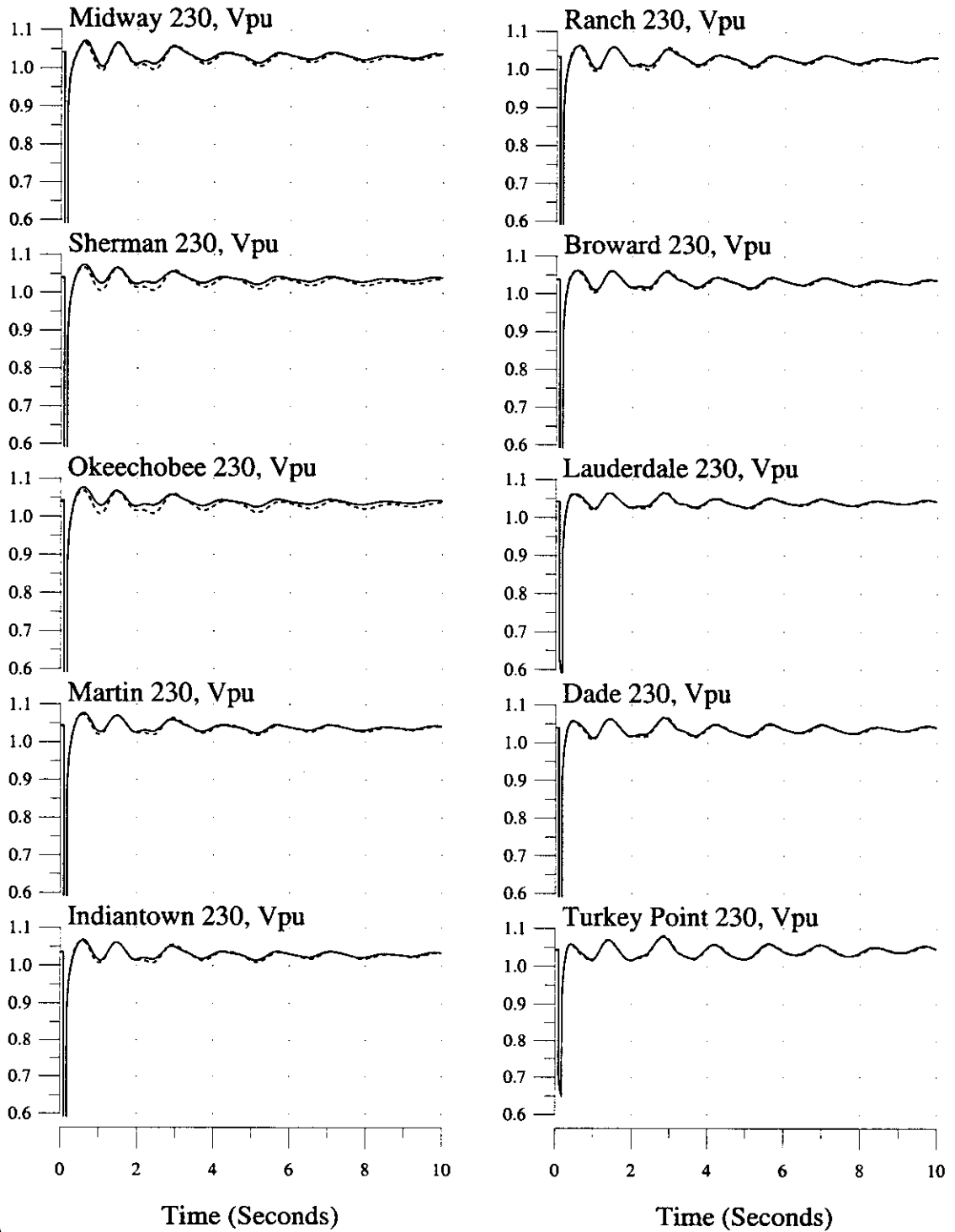
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



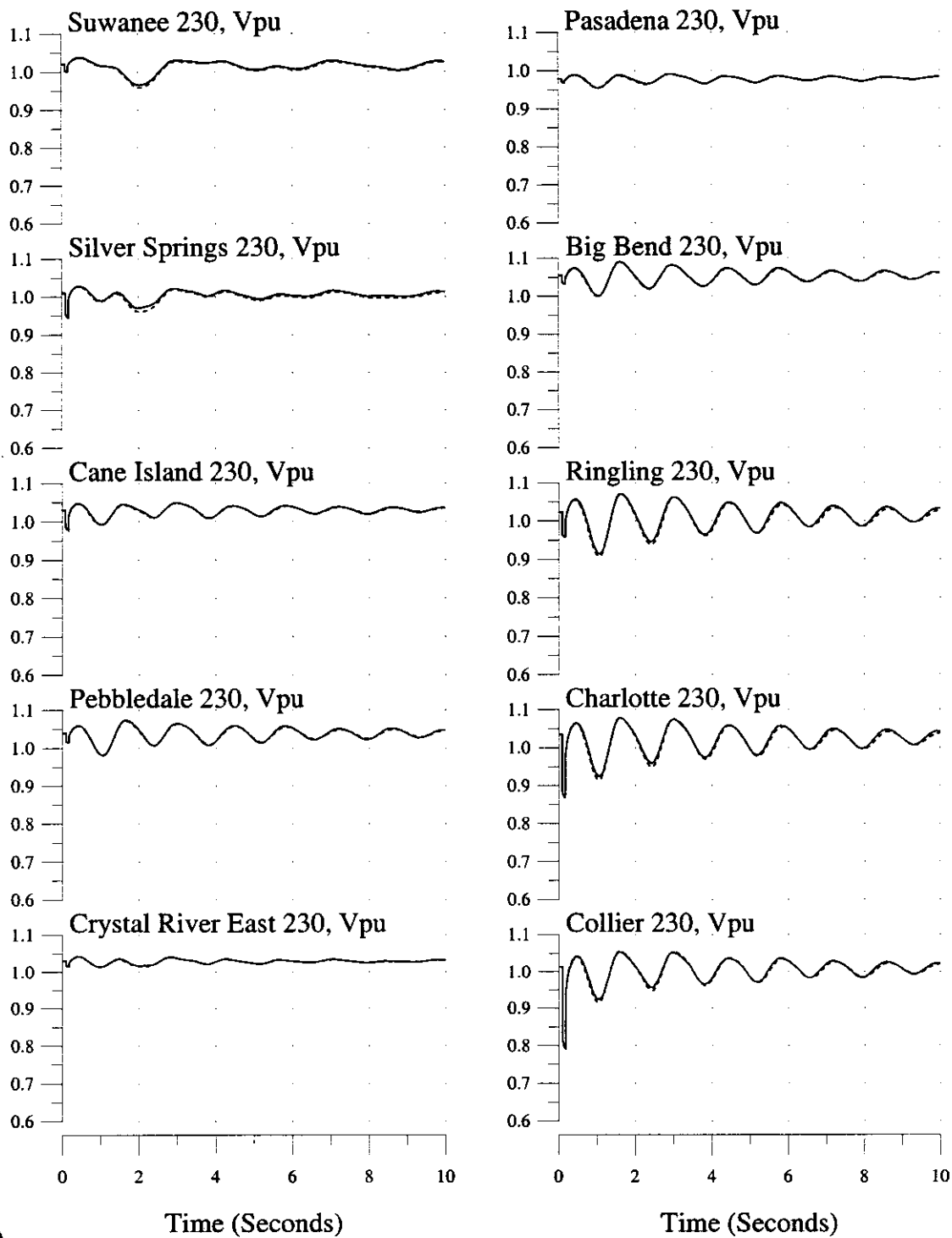
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



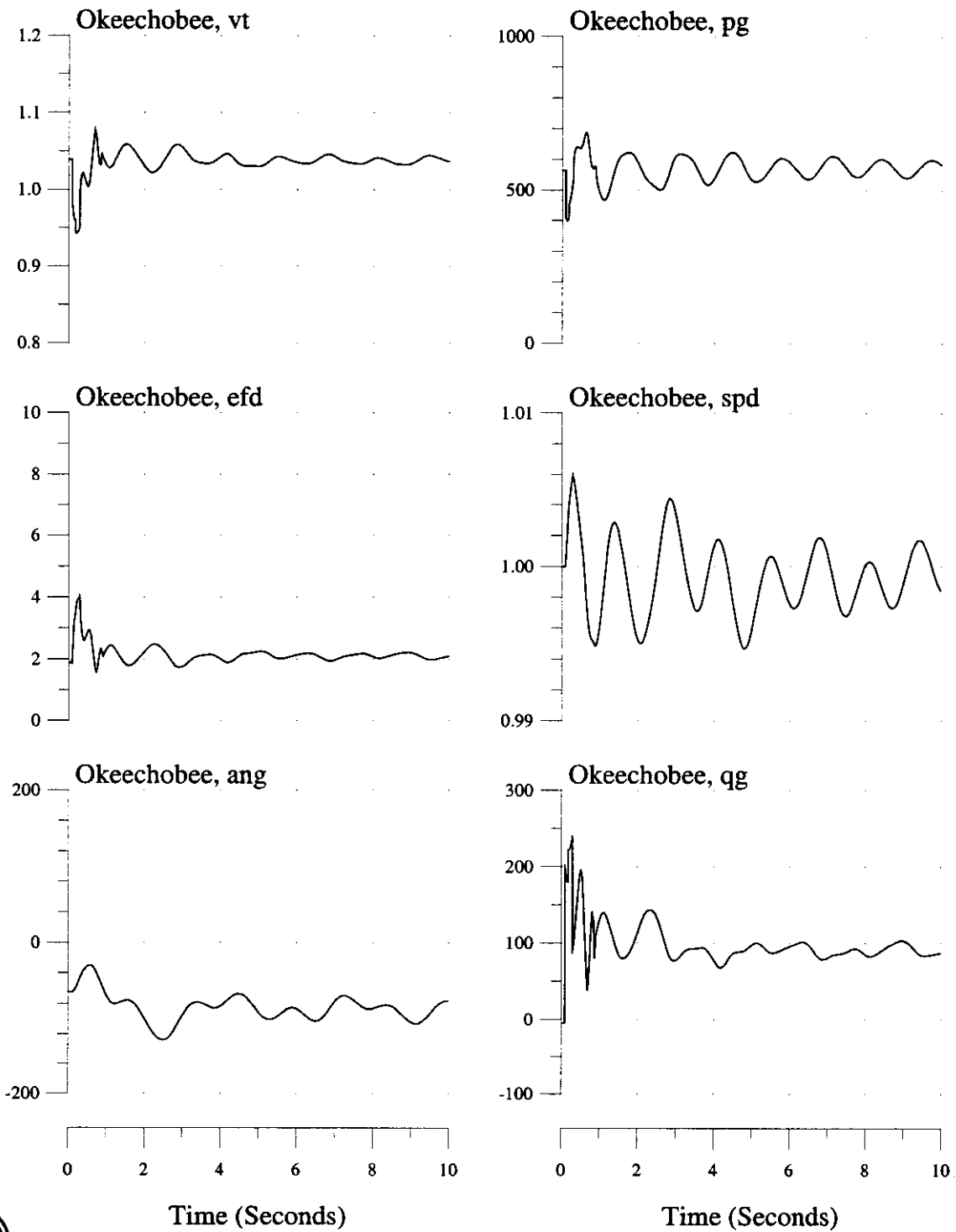
# 3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without



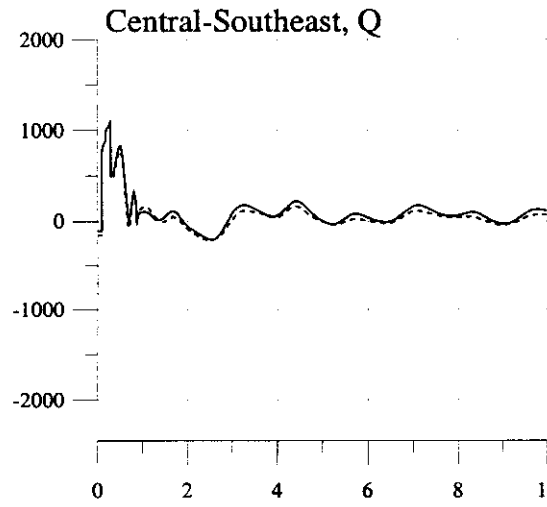
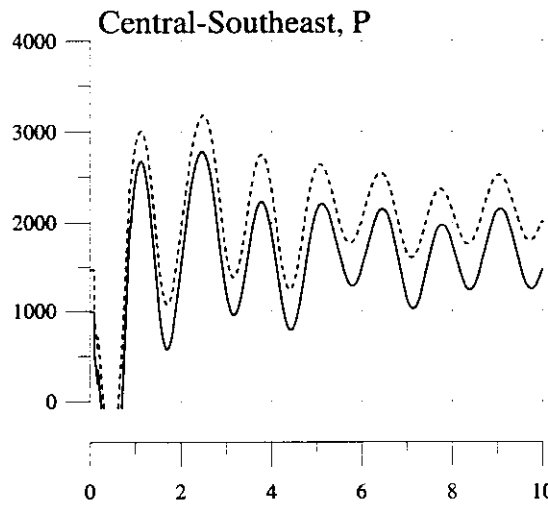
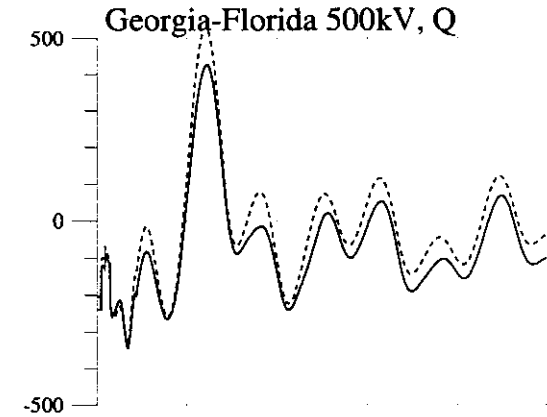
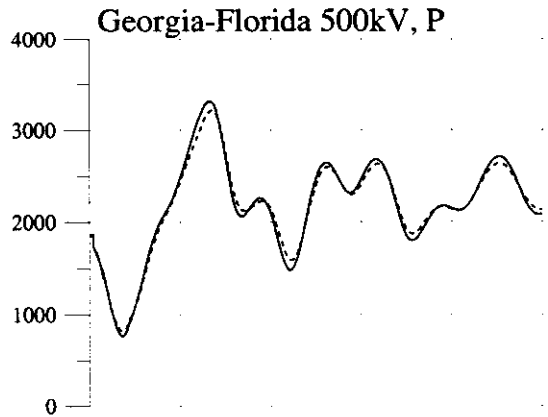
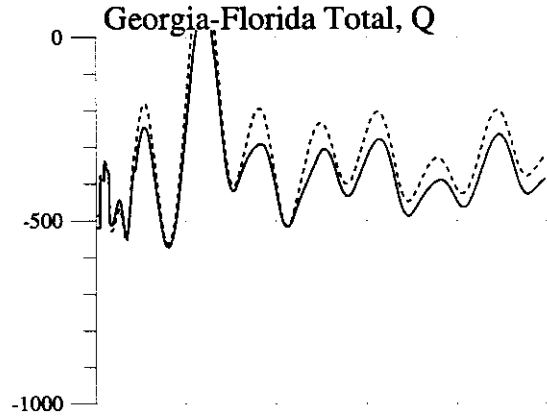
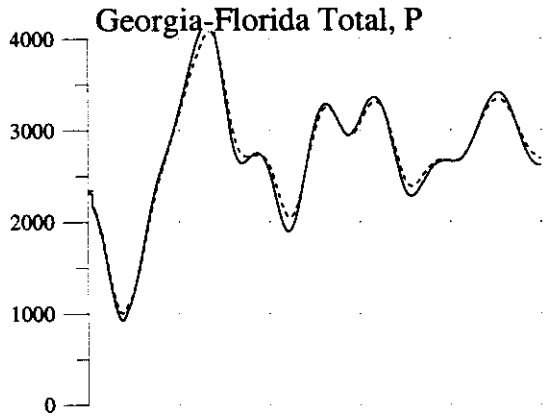
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee JEA Dispatch, (...) Without



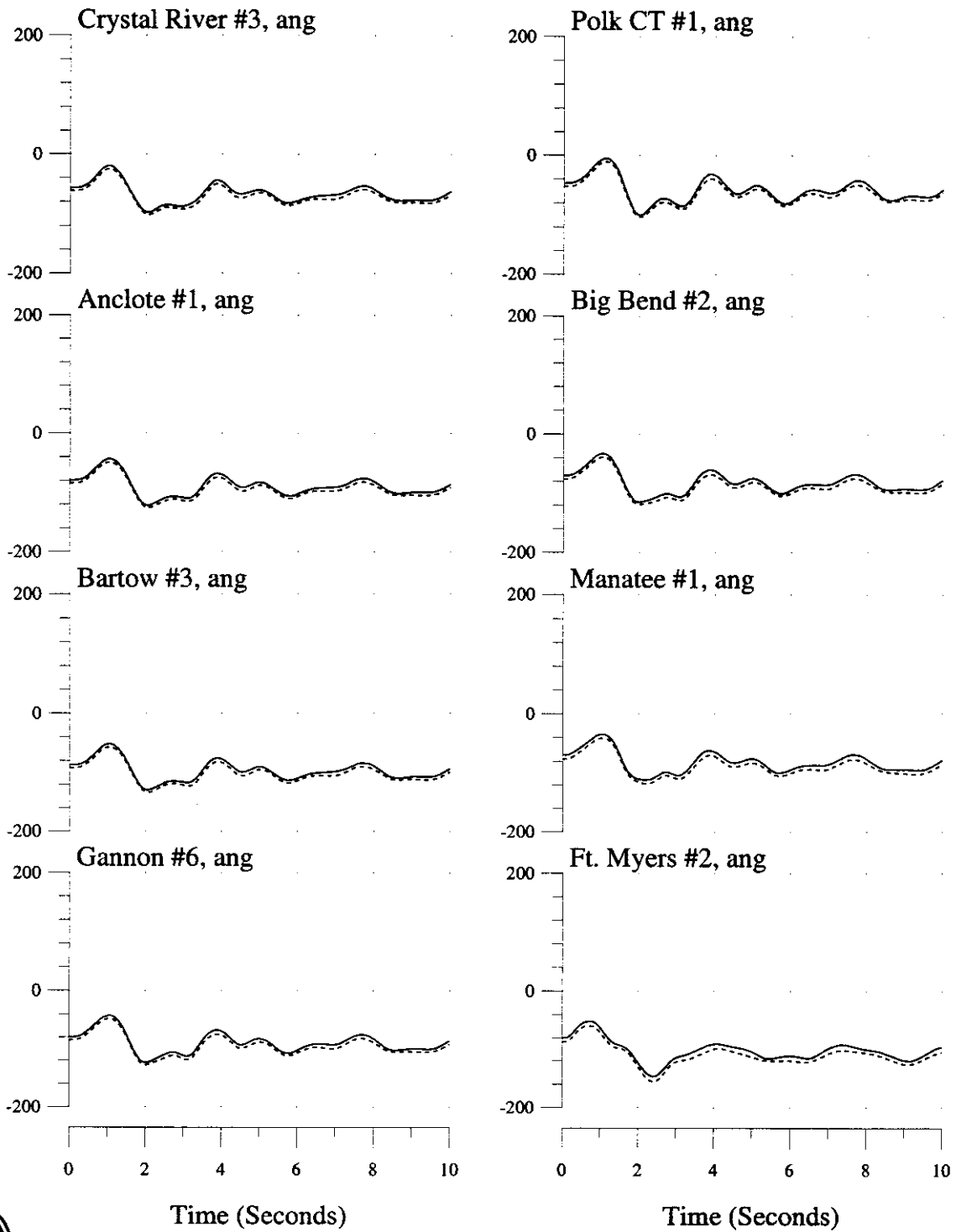
Time (Seconds)

Time (Seconds)



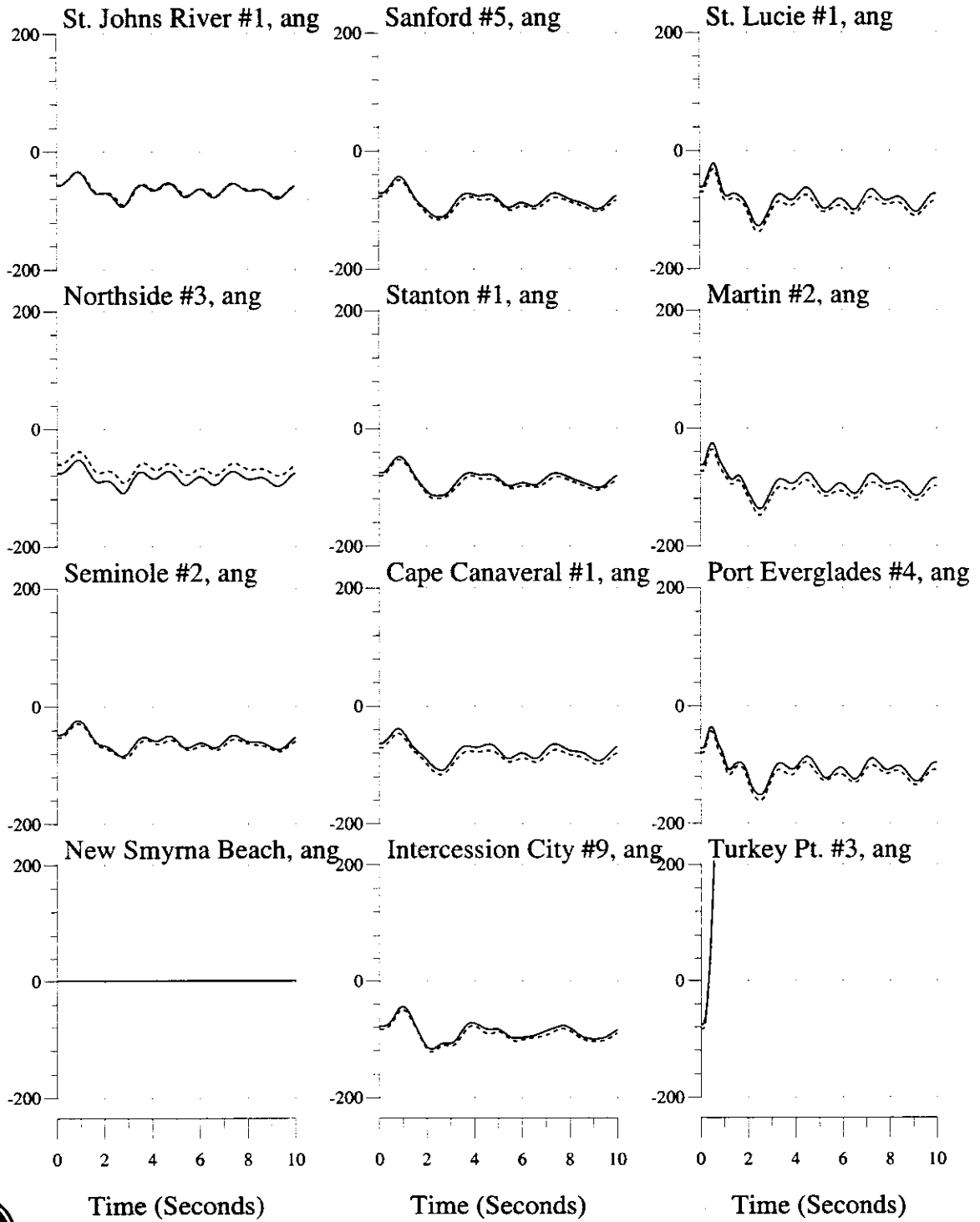
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

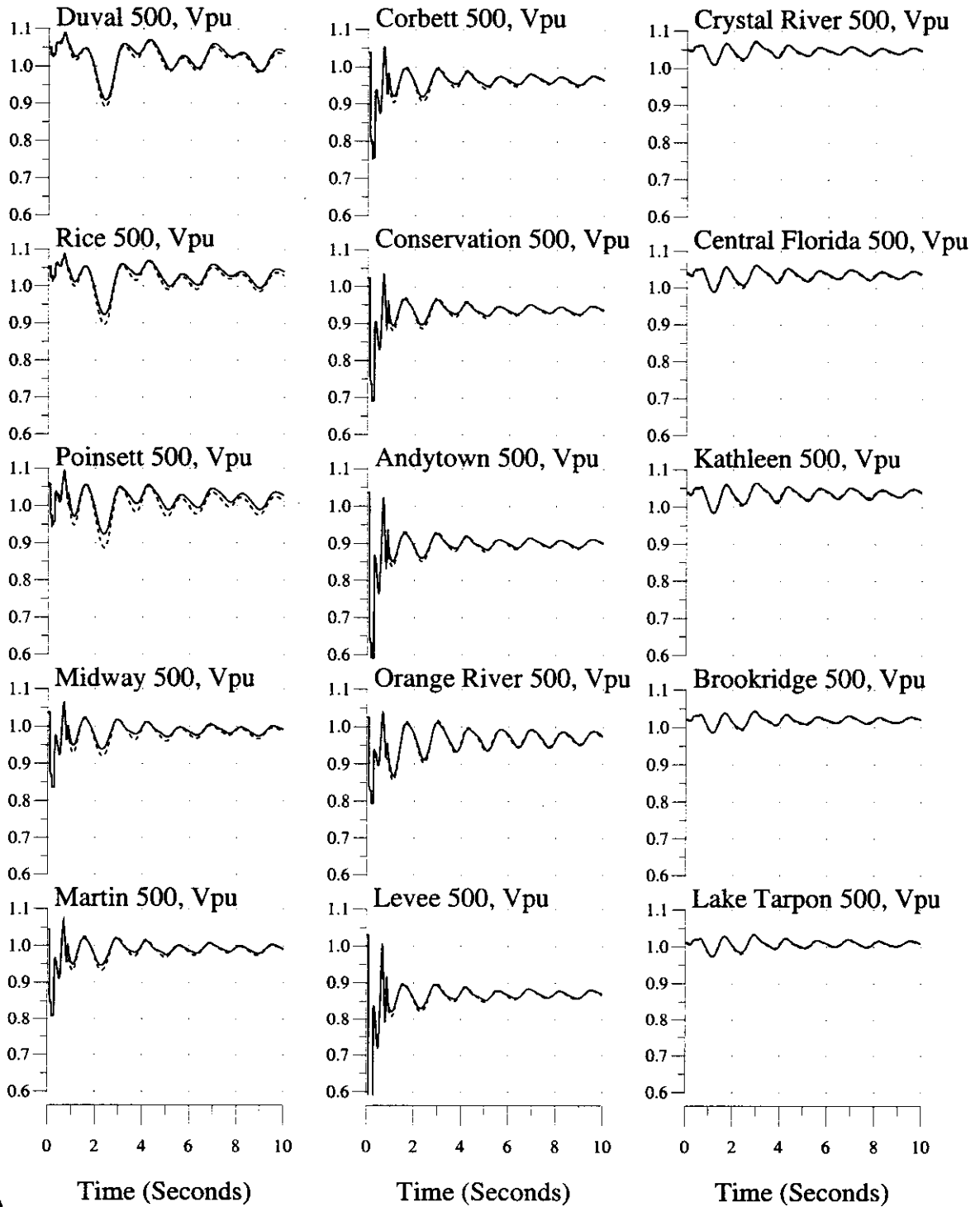
Machine Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without





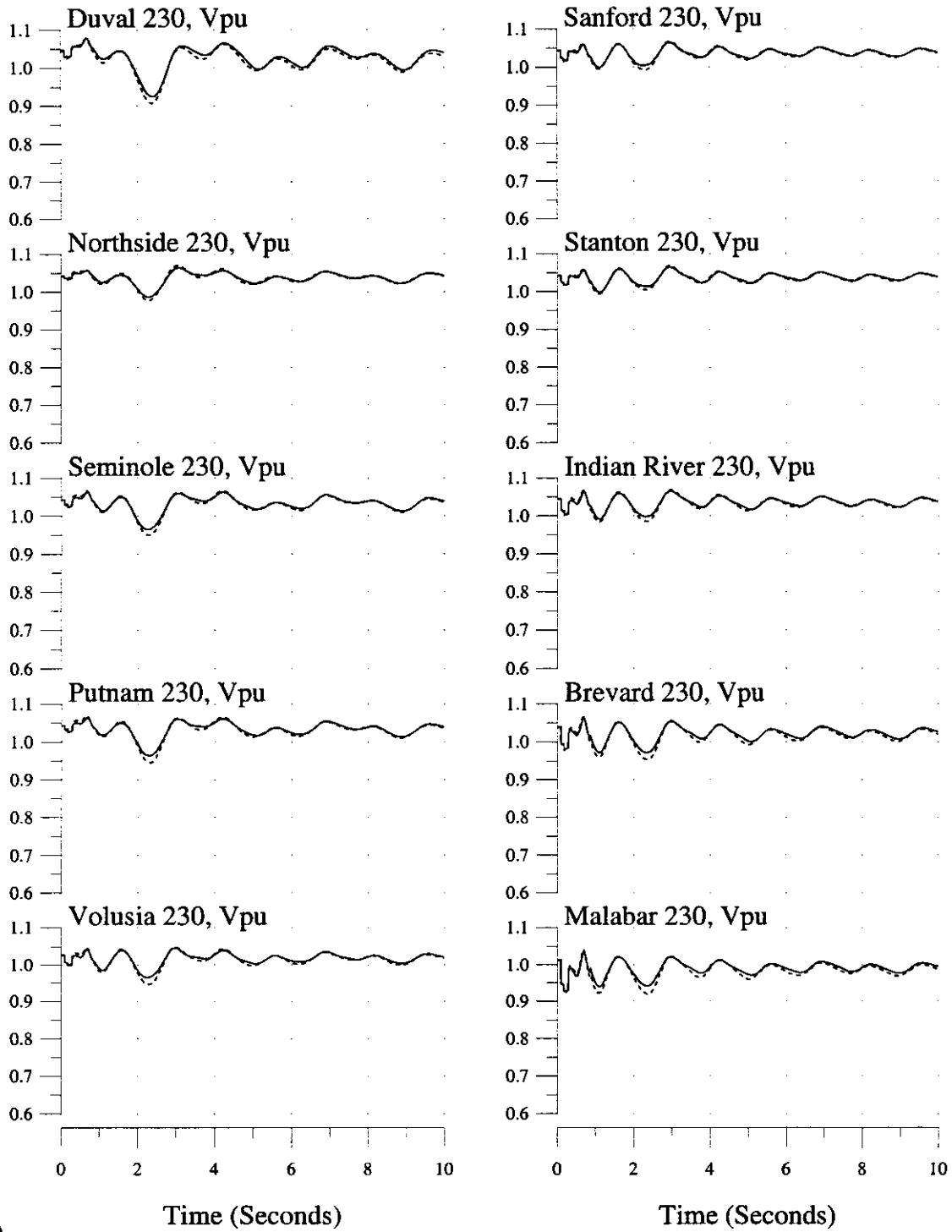
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



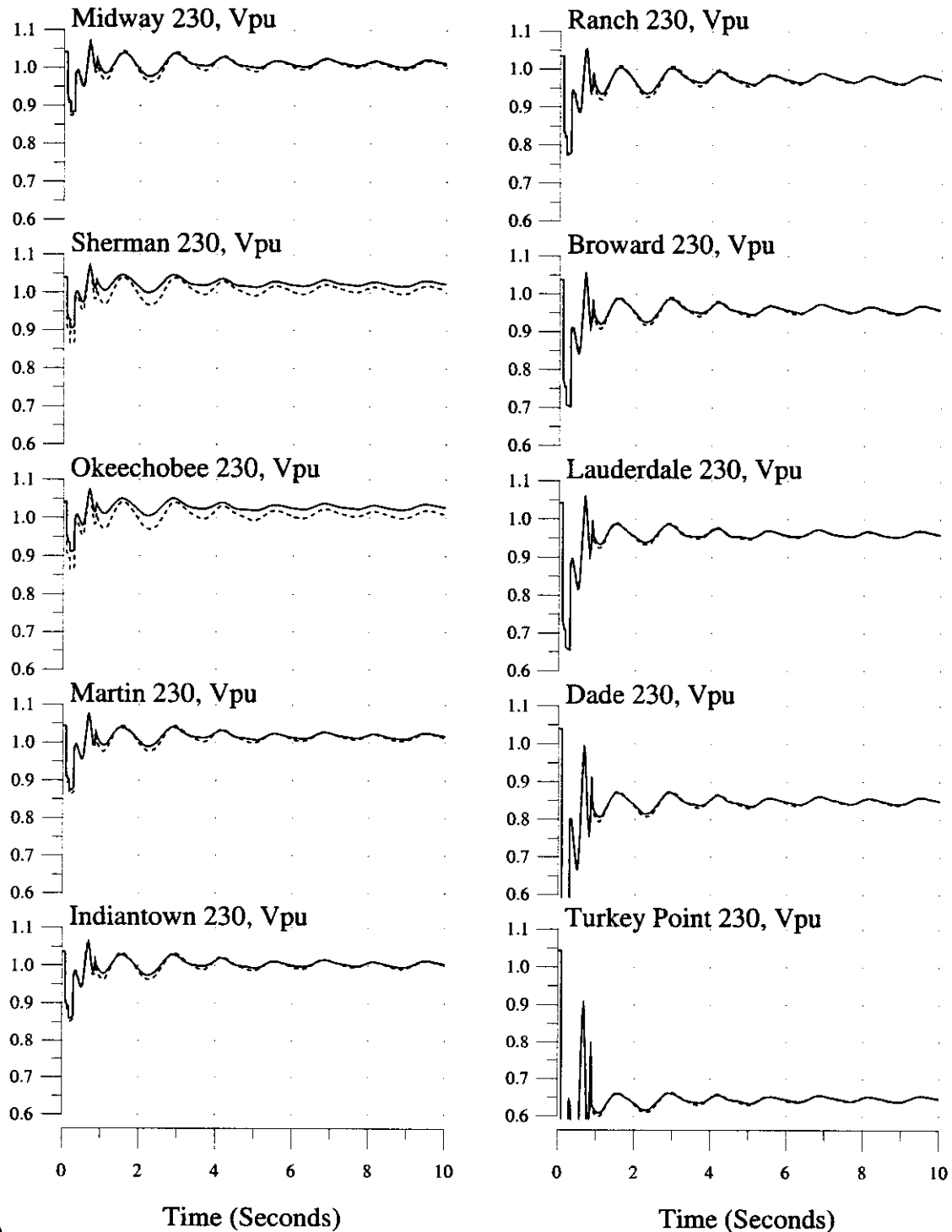
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



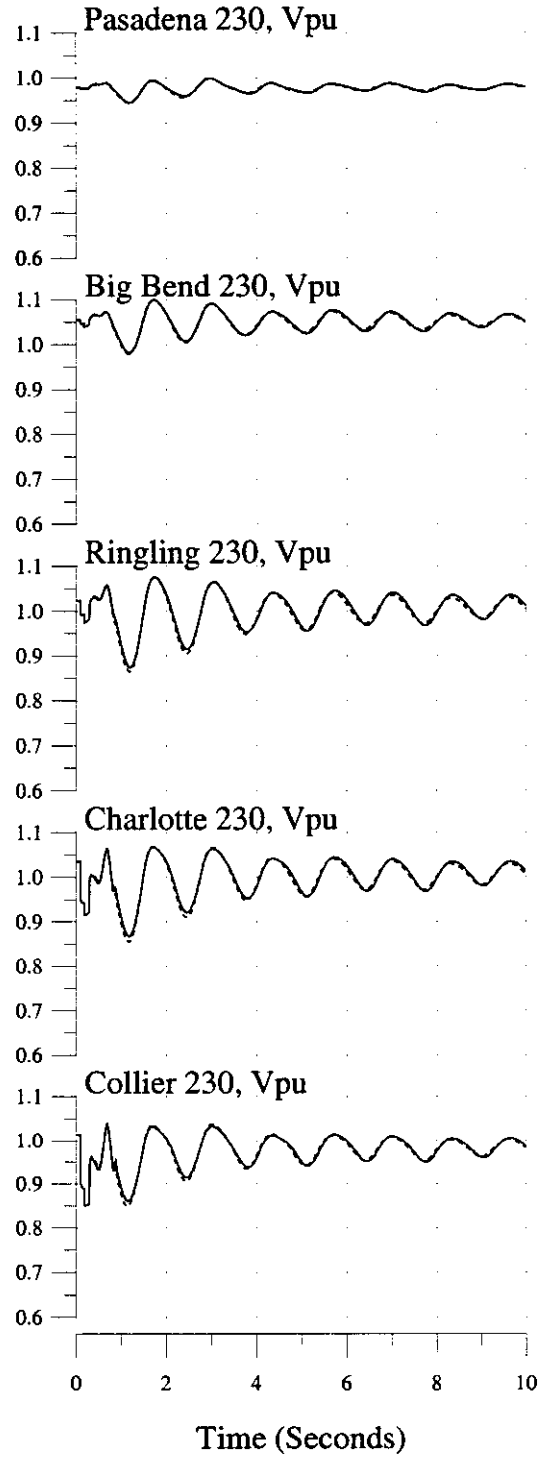
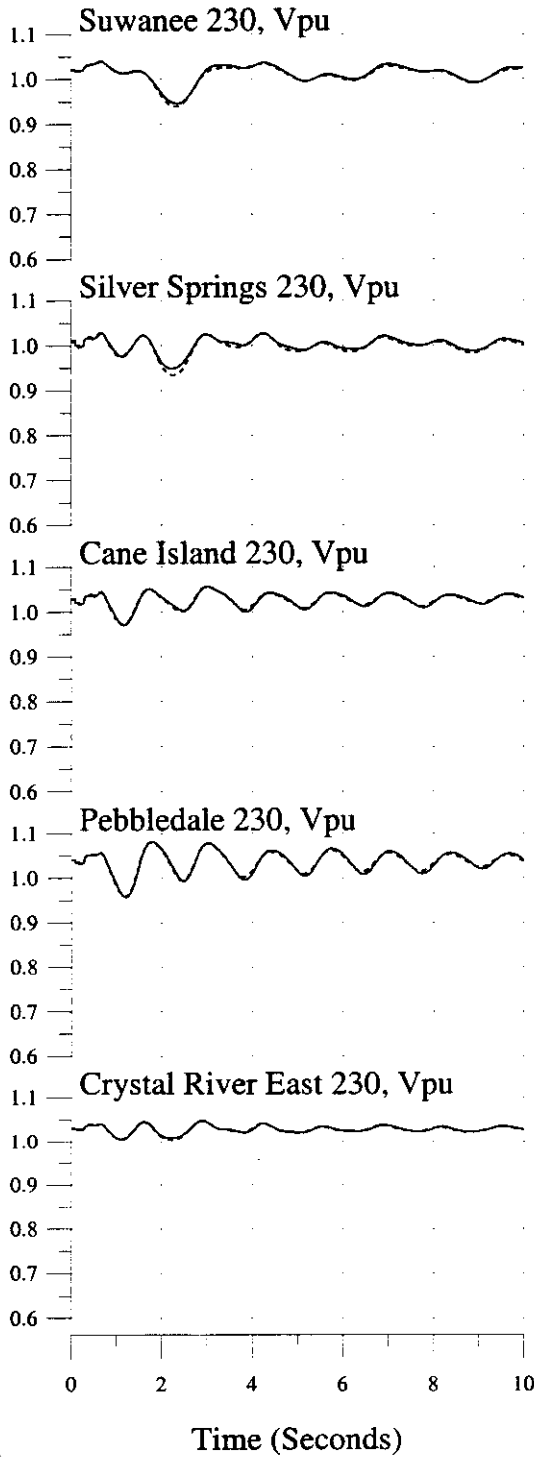
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Bus Variables: (—) With Okeechobee JEA Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

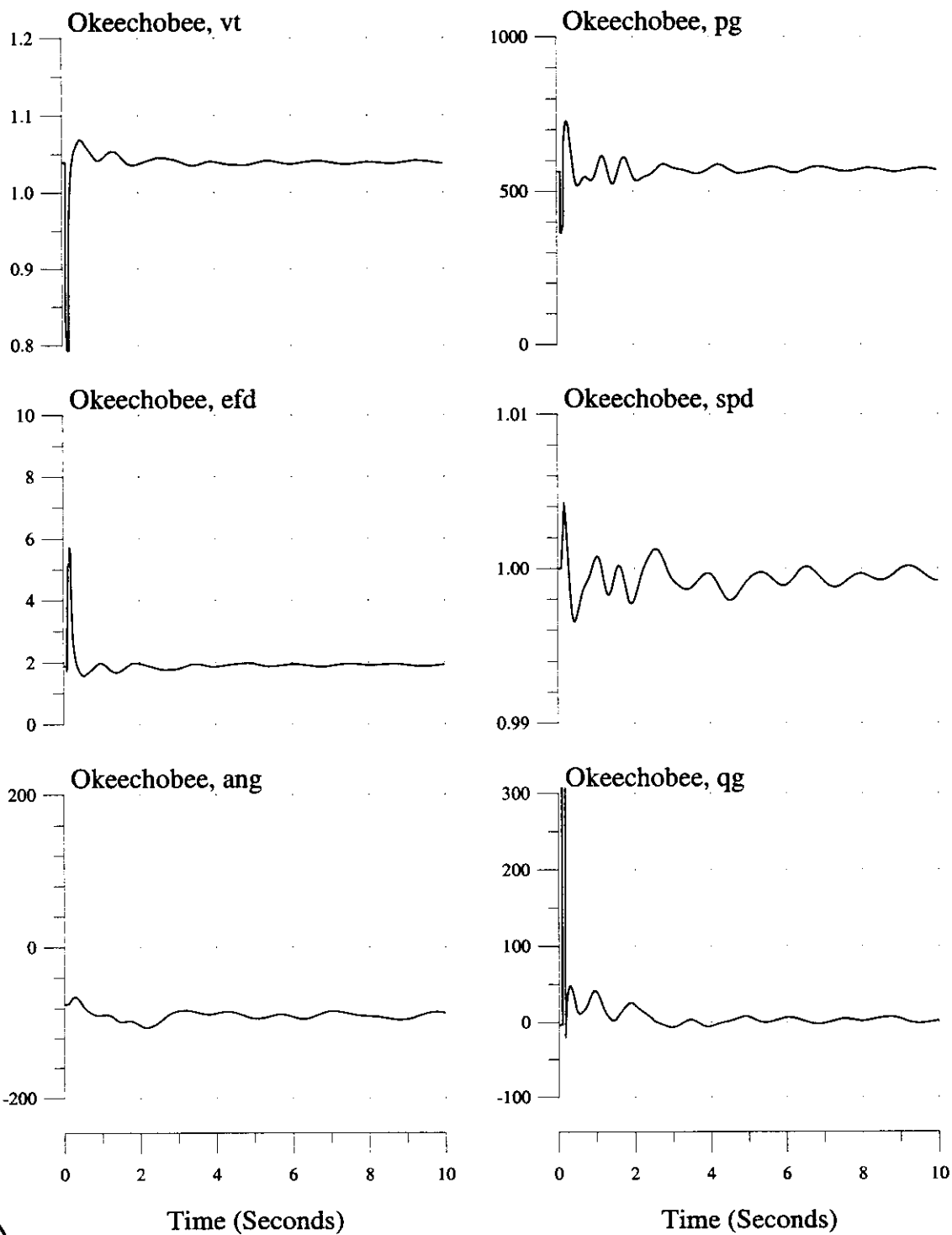
Bus Variables: (\_\_\_) With Okeechobee JEA Dispatch, (...) Without





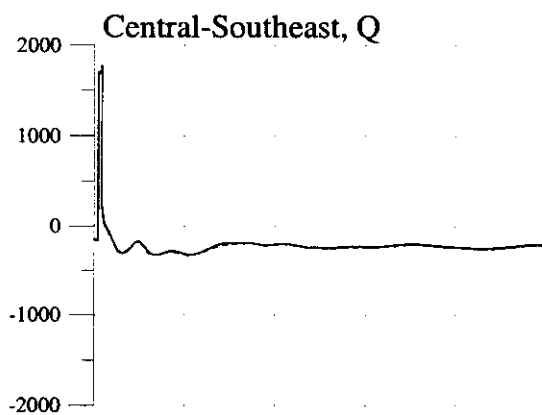
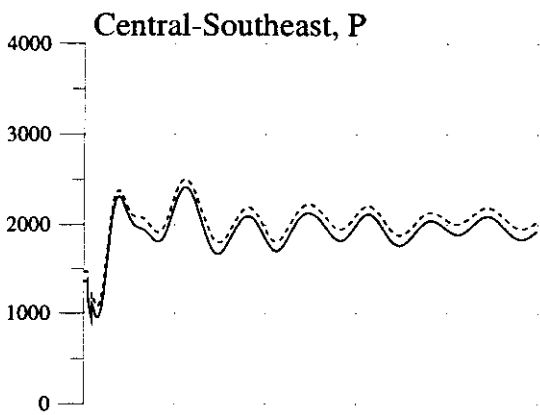
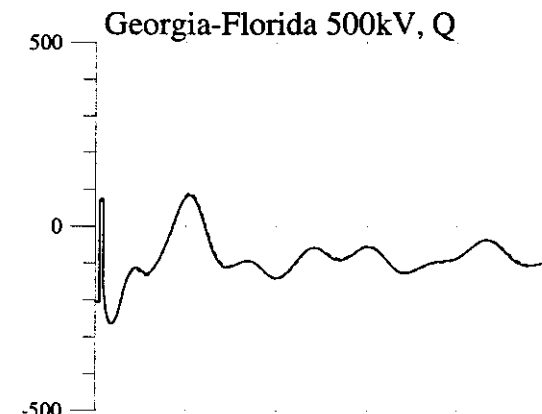
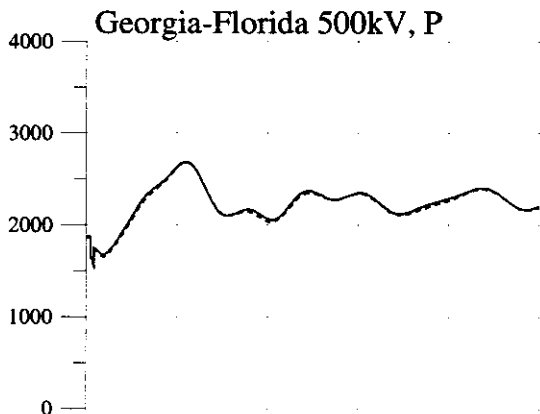
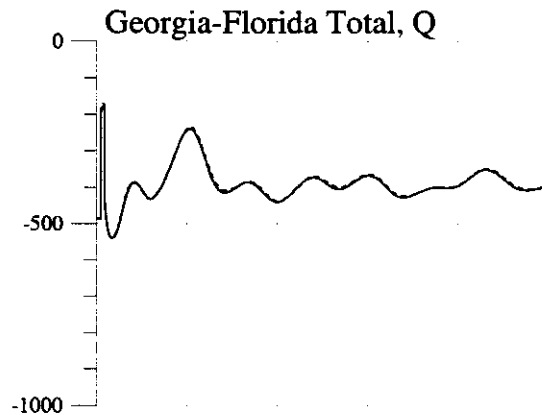
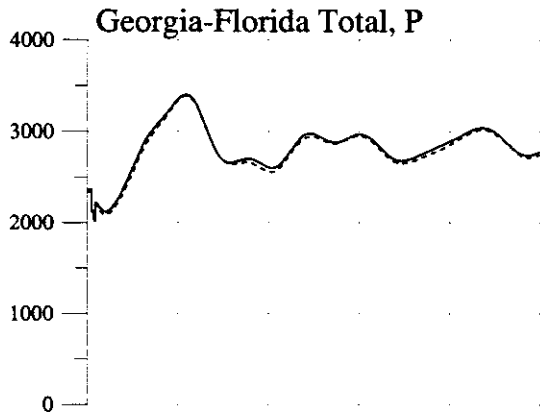
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



0 2 4 6 8 10

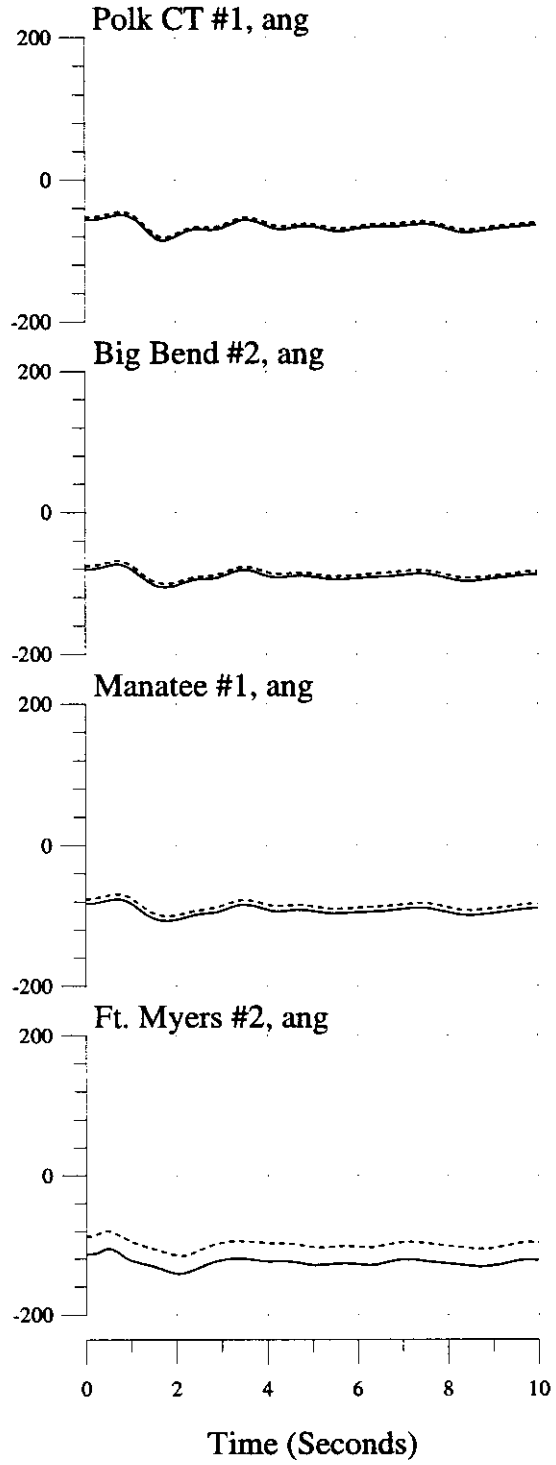
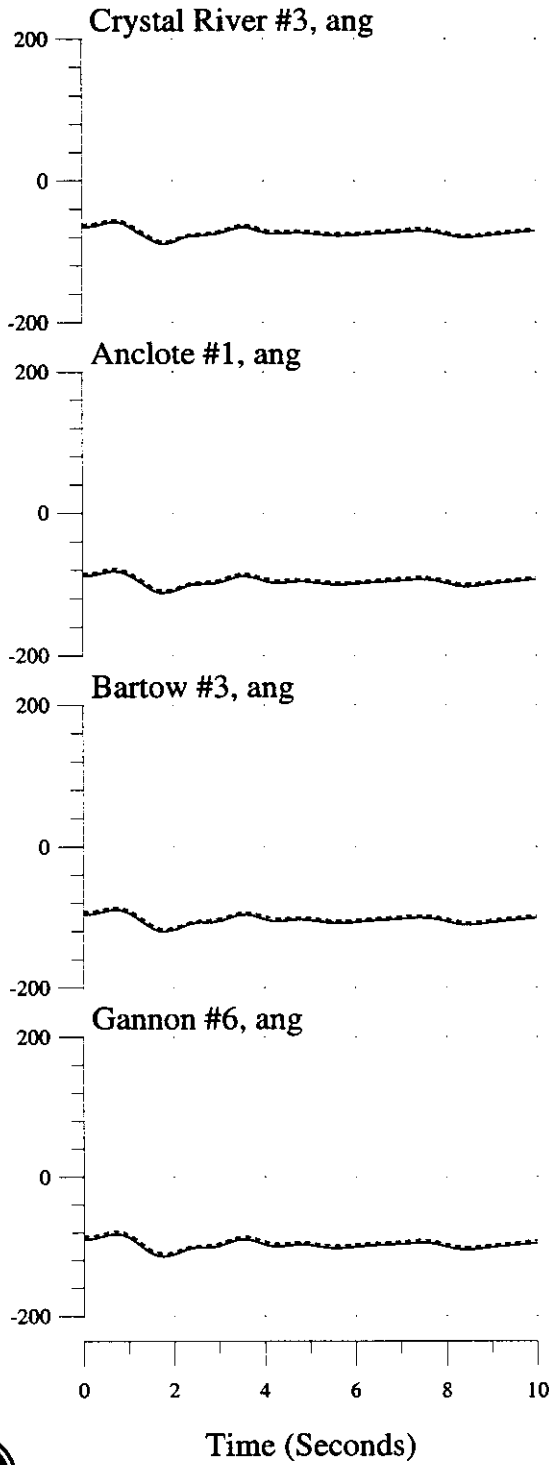
Time (Seconds)

0 2 4 6 8 10

Time (Seconds)



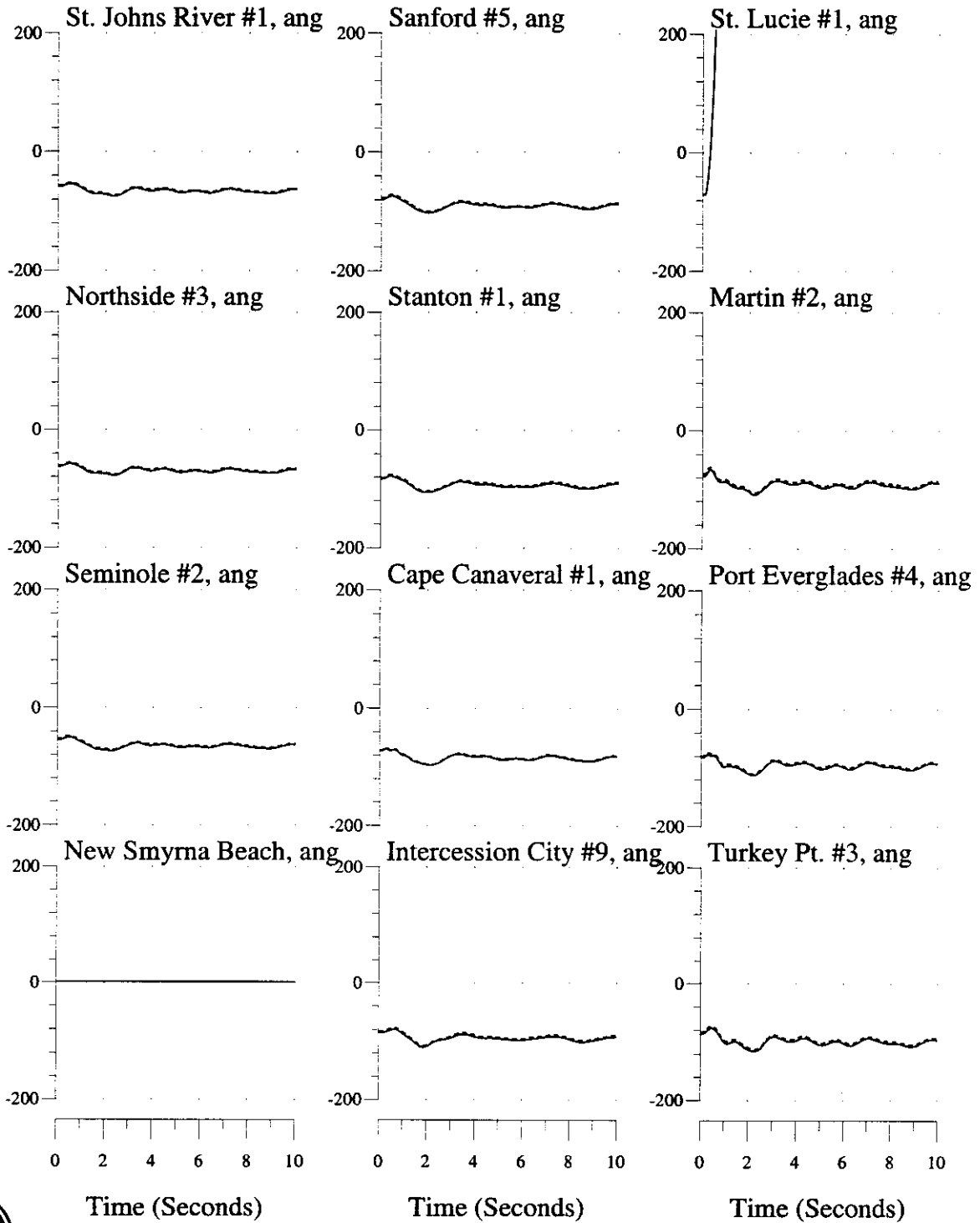
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System  
 Machine Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without





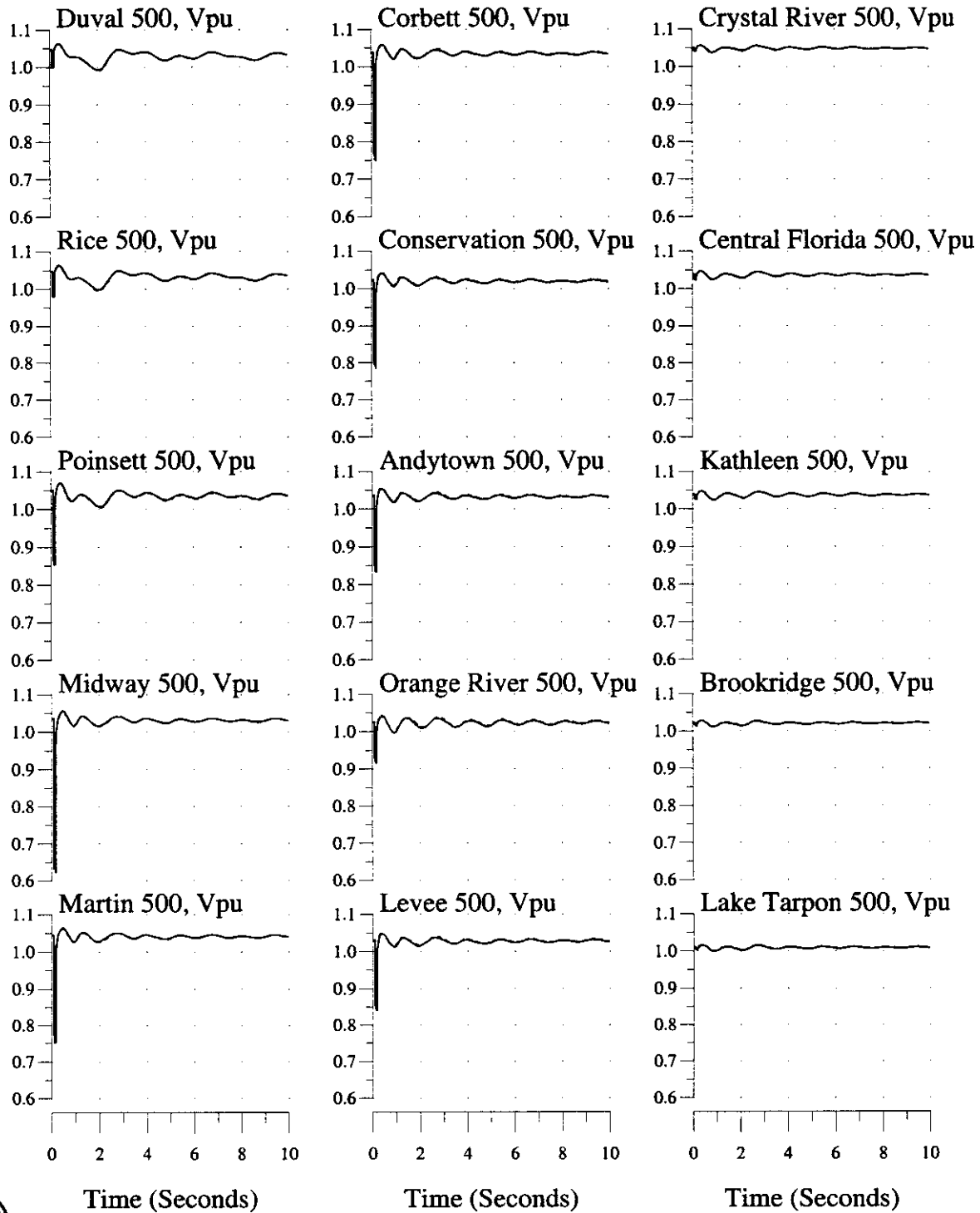
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



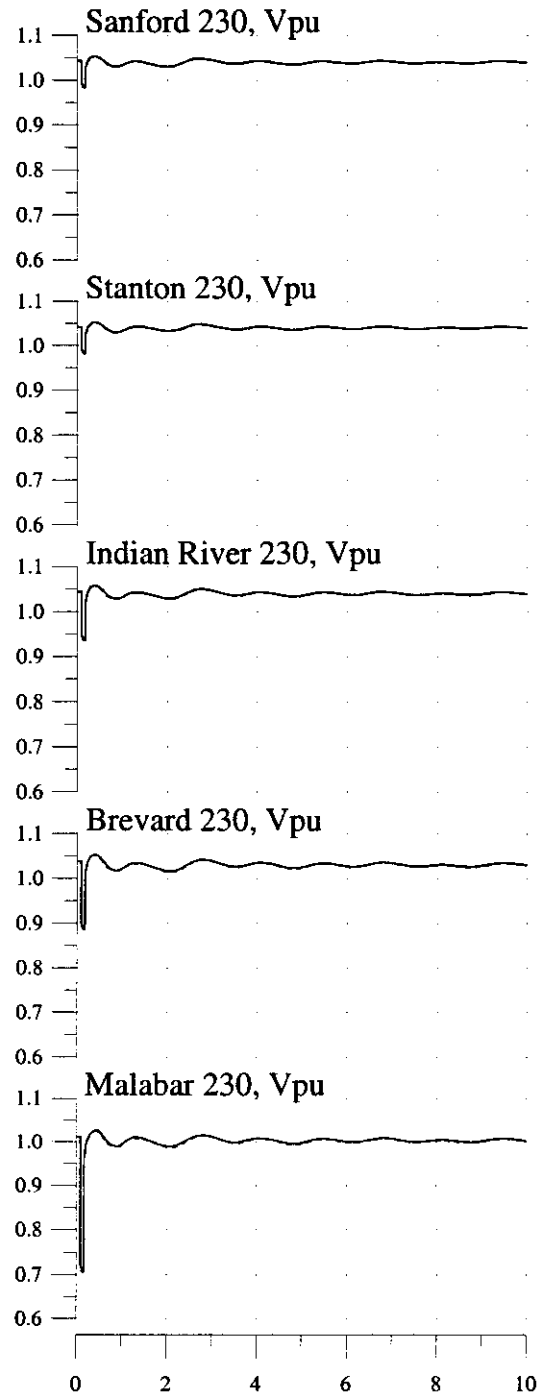
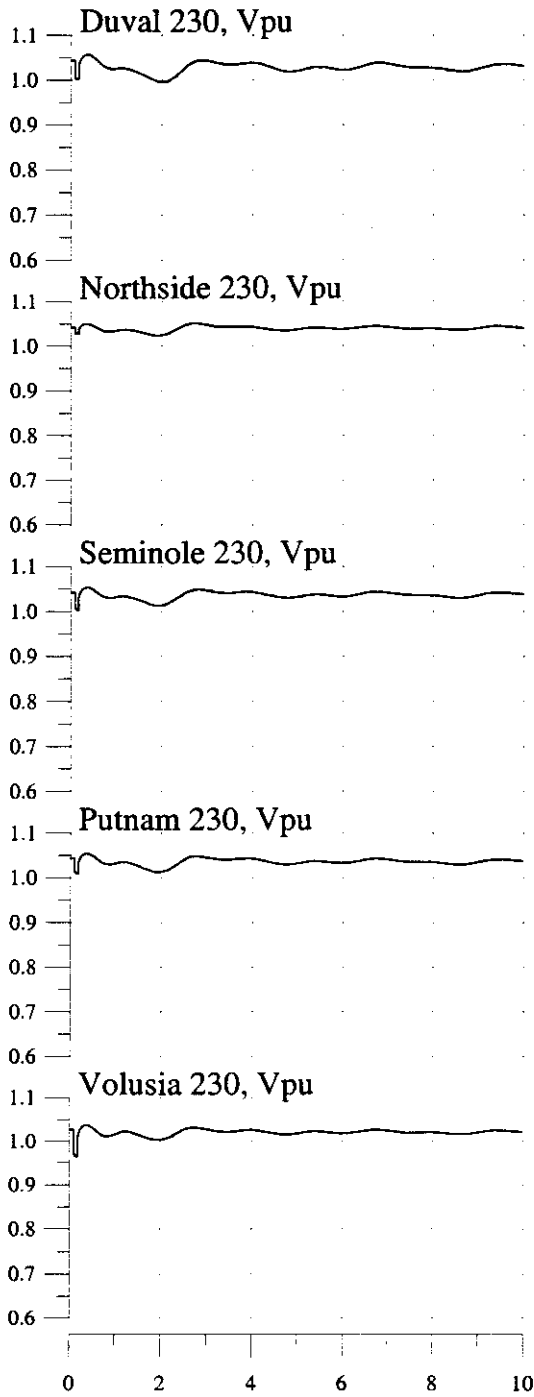
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without

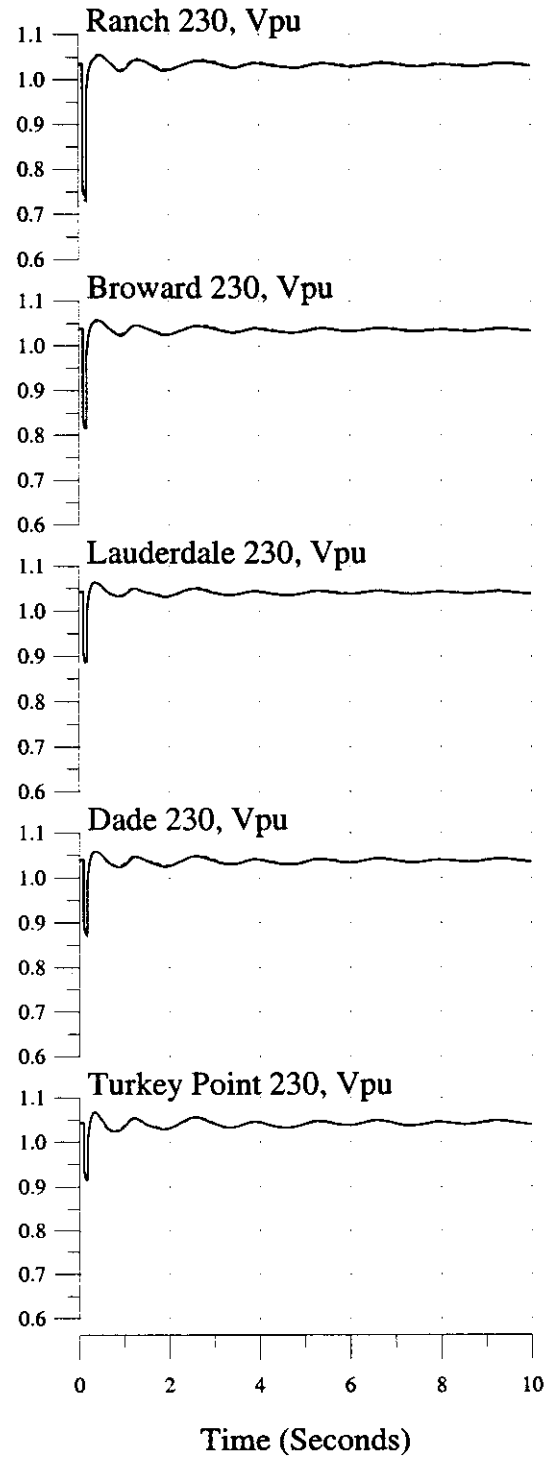
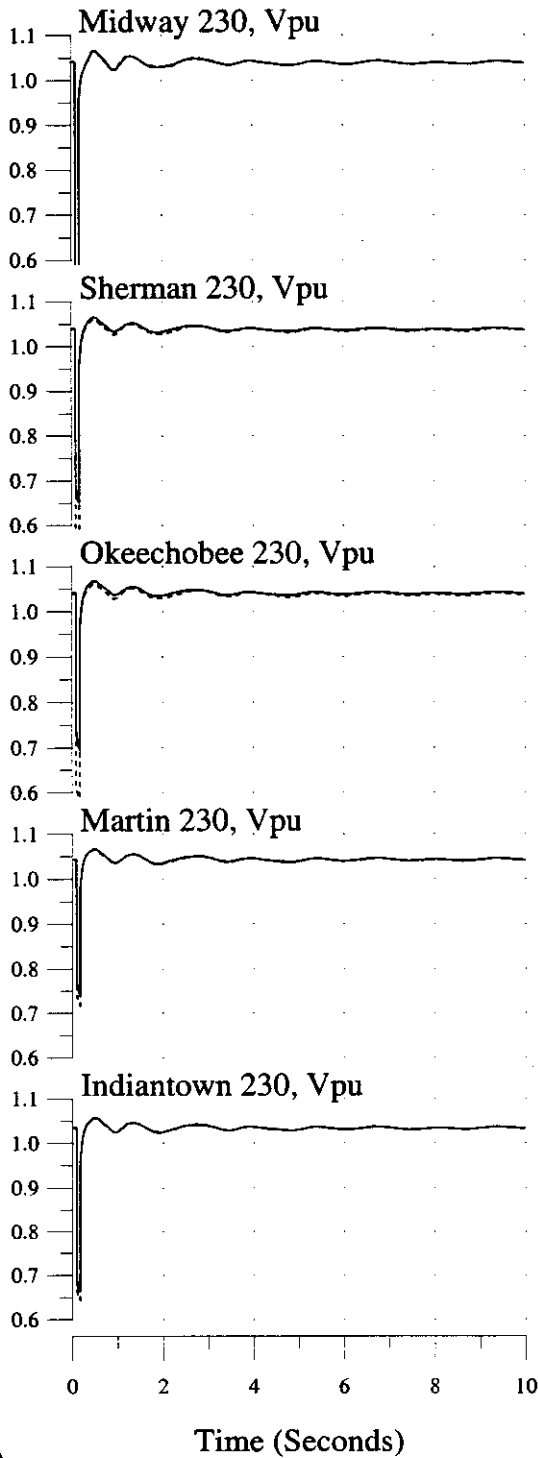


Time (Seconds)

Time (Seconds)

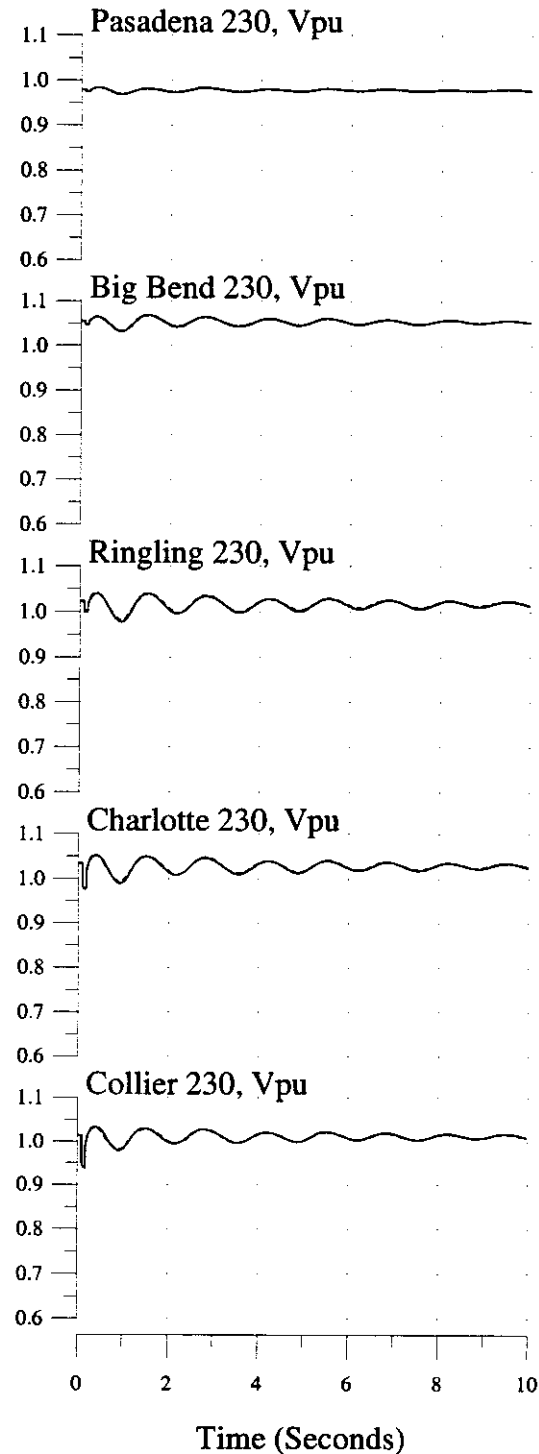
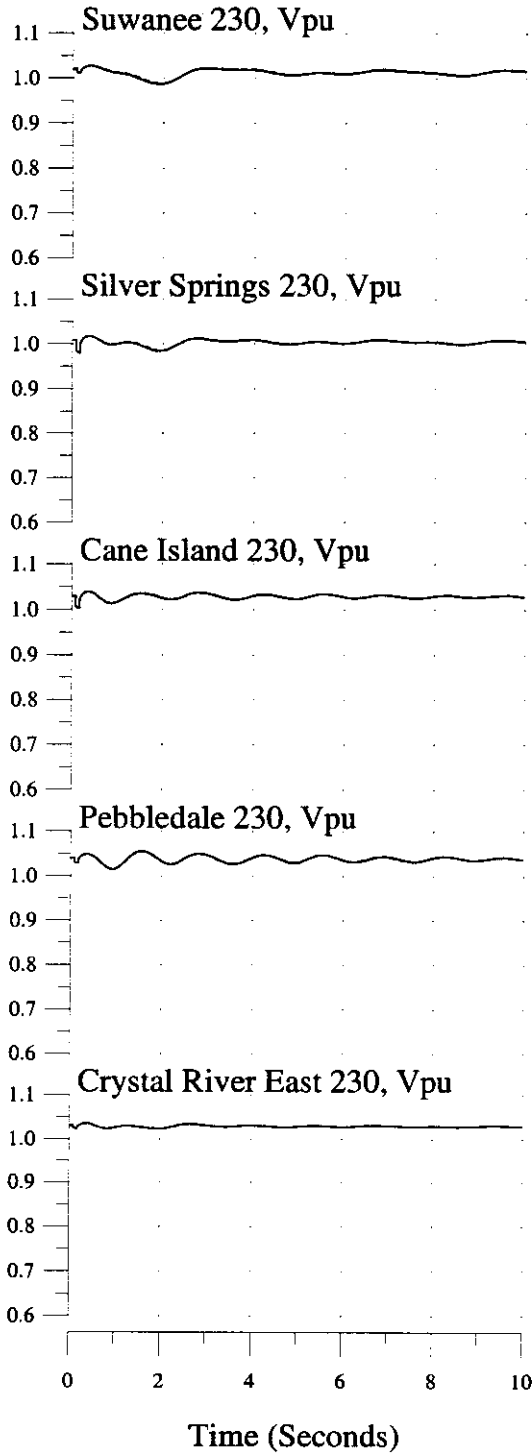
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



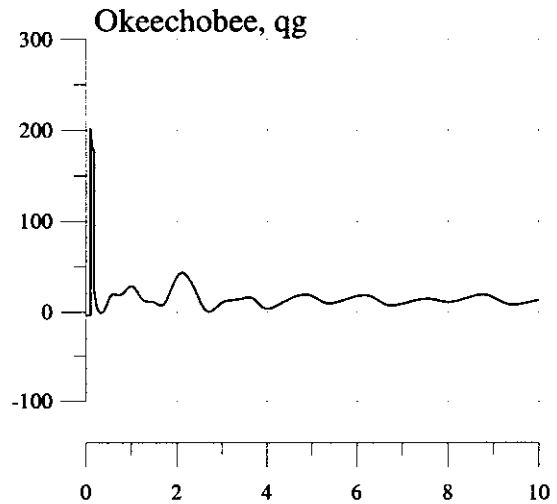
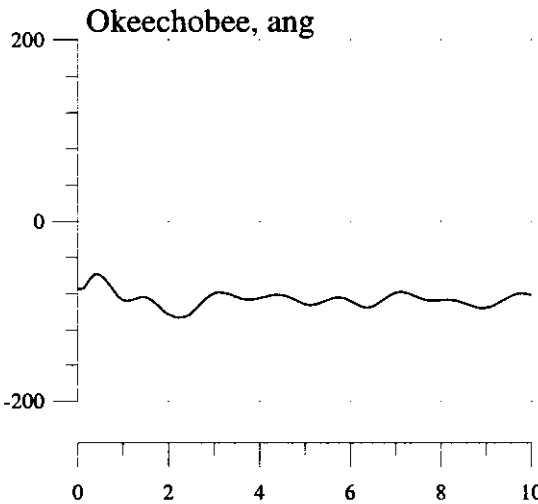
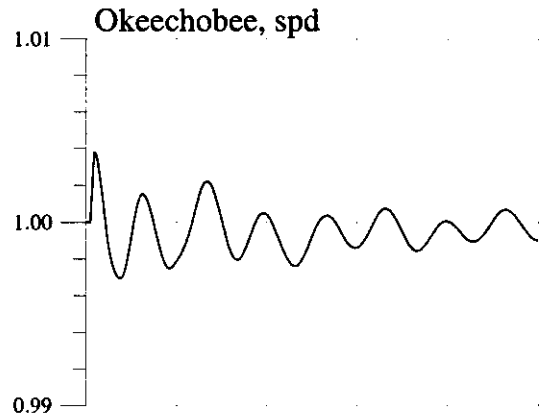
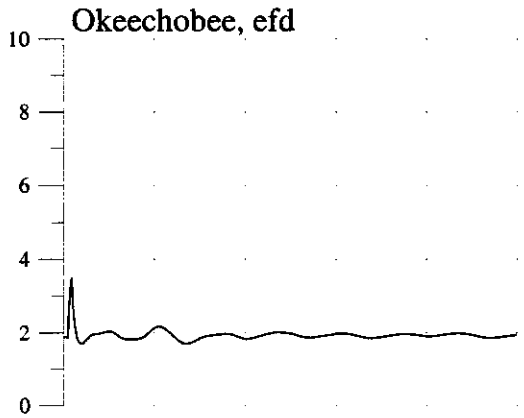
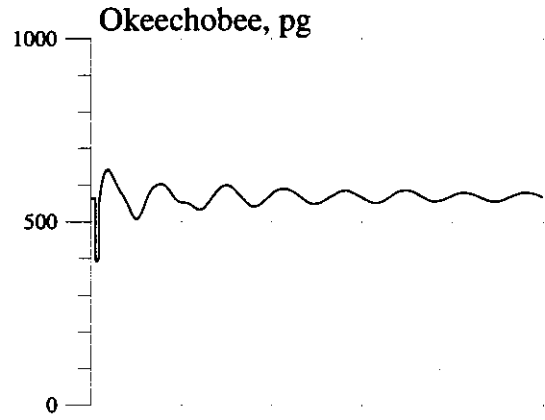
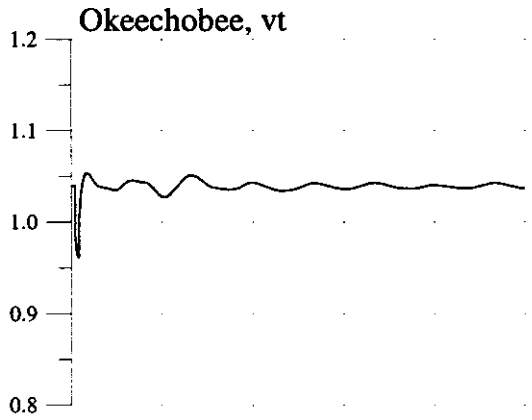
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



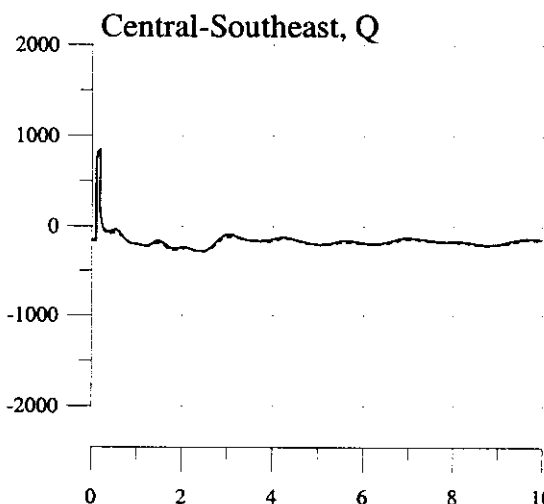
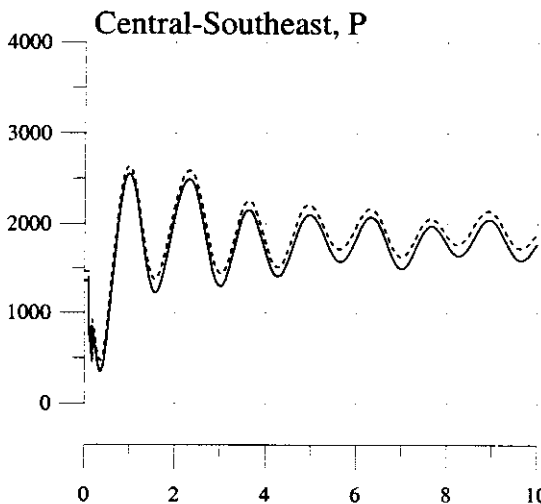
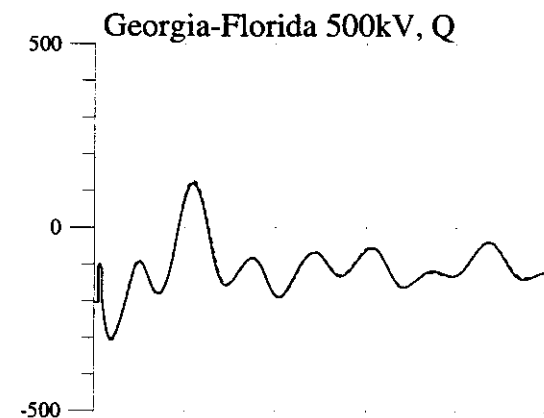
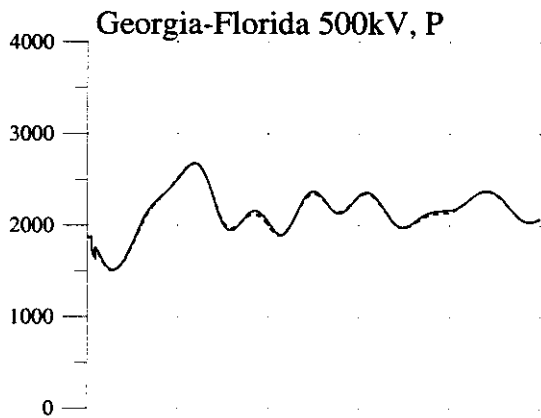
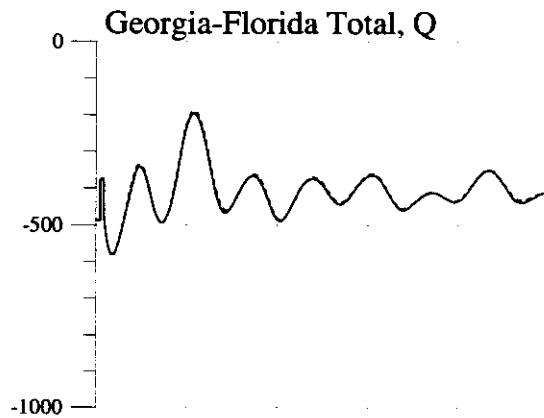
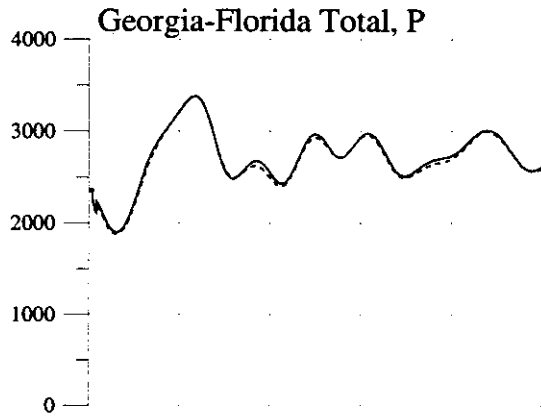
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



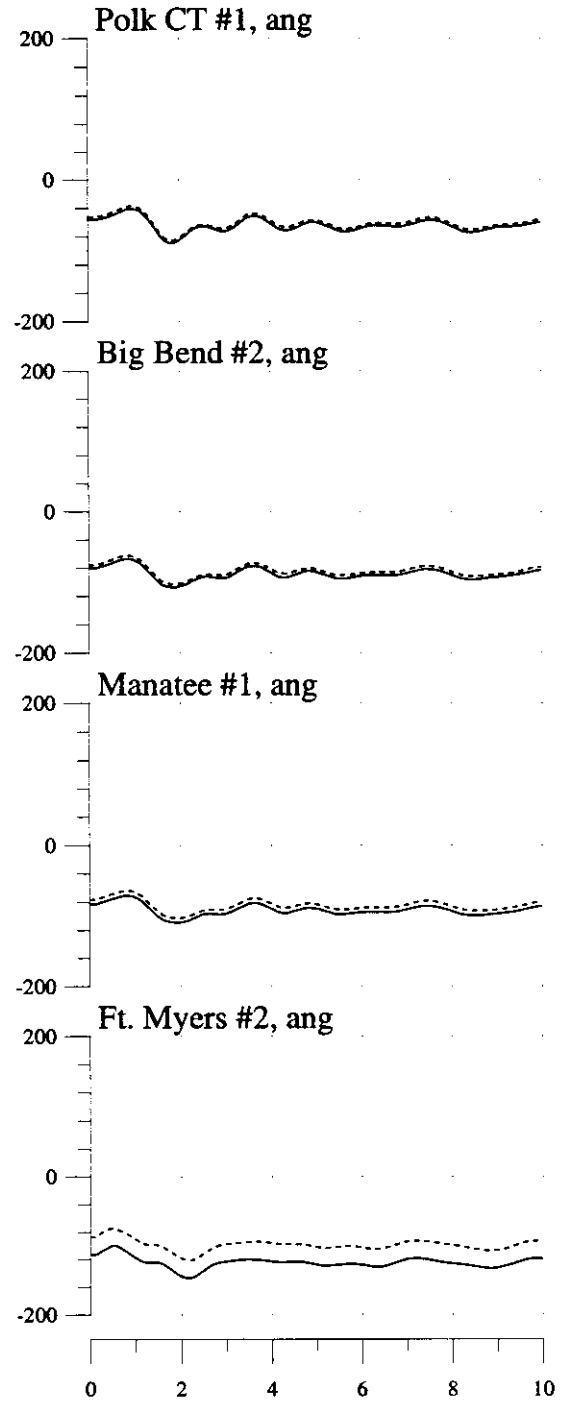
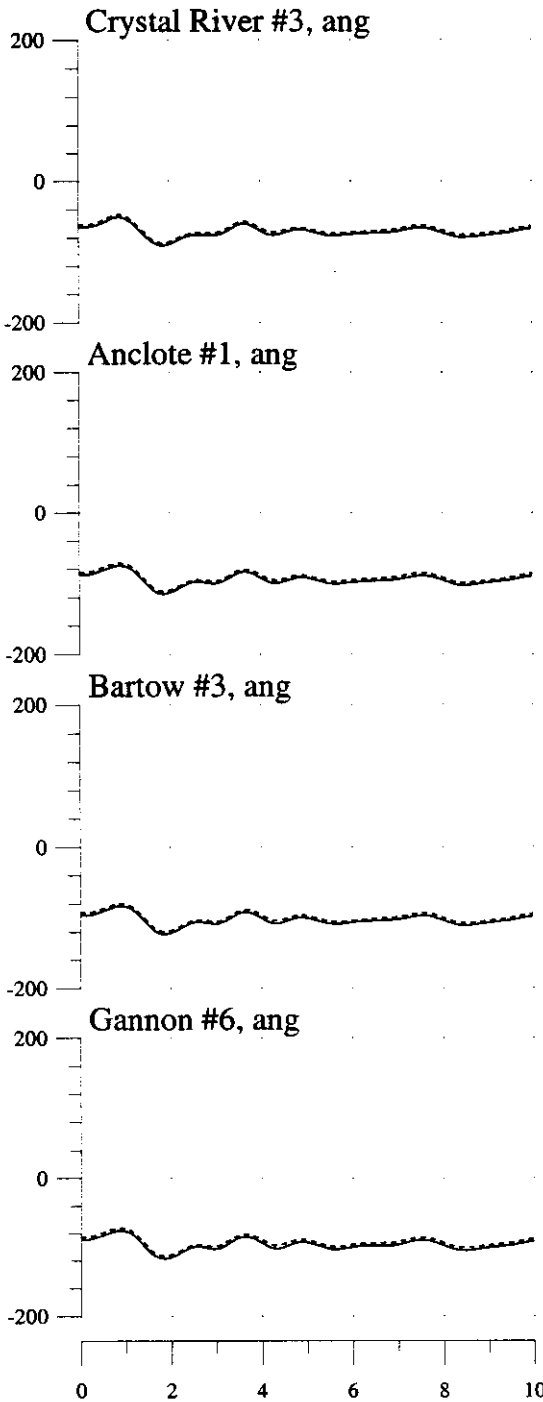
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

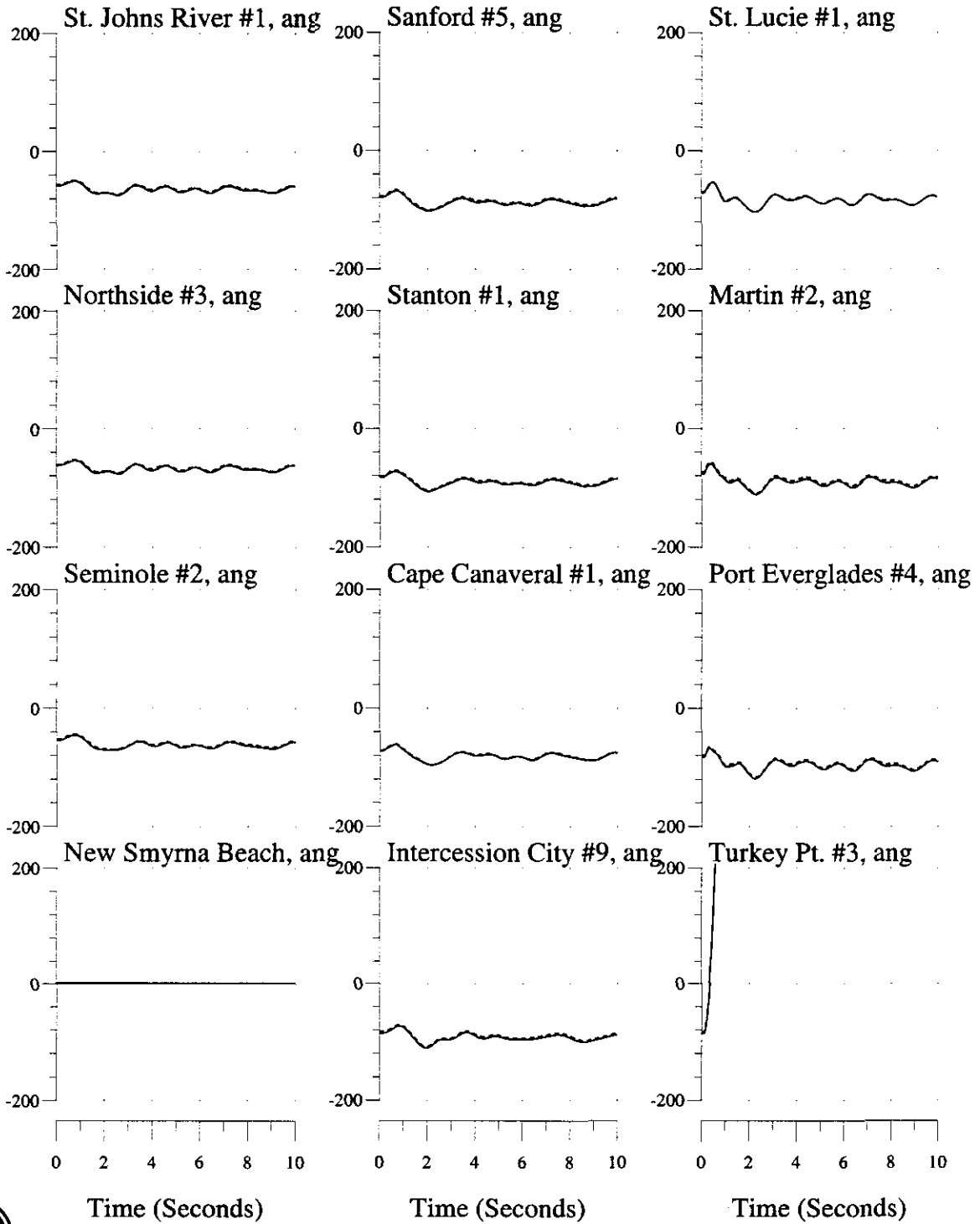
Machine Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without





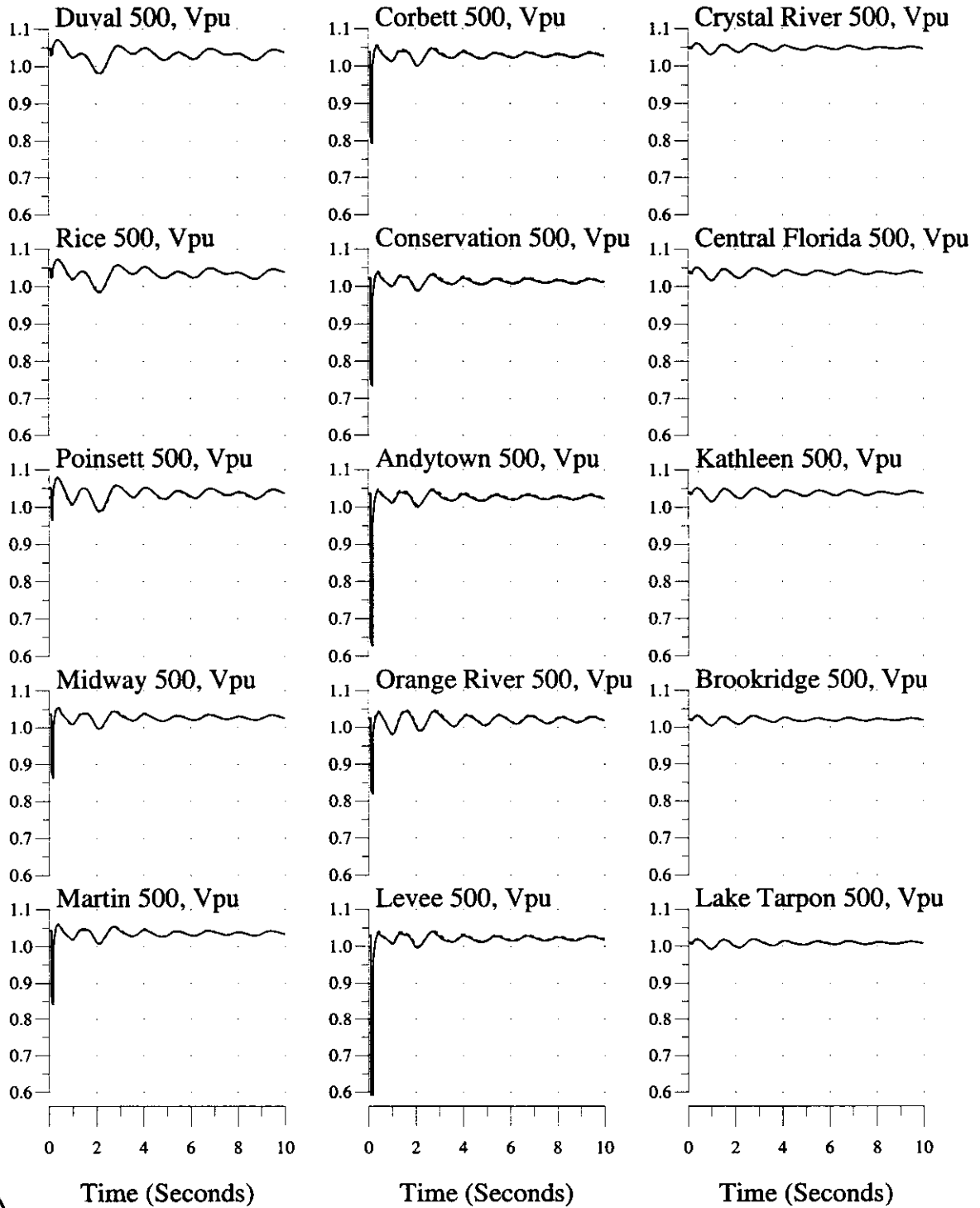
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



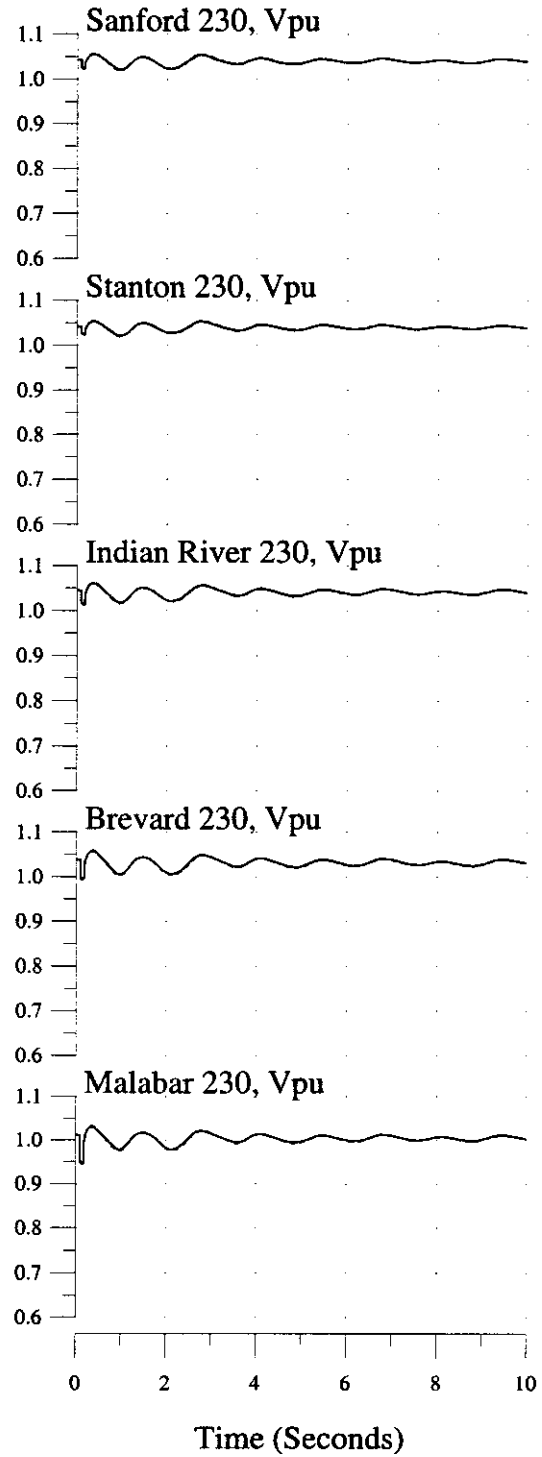
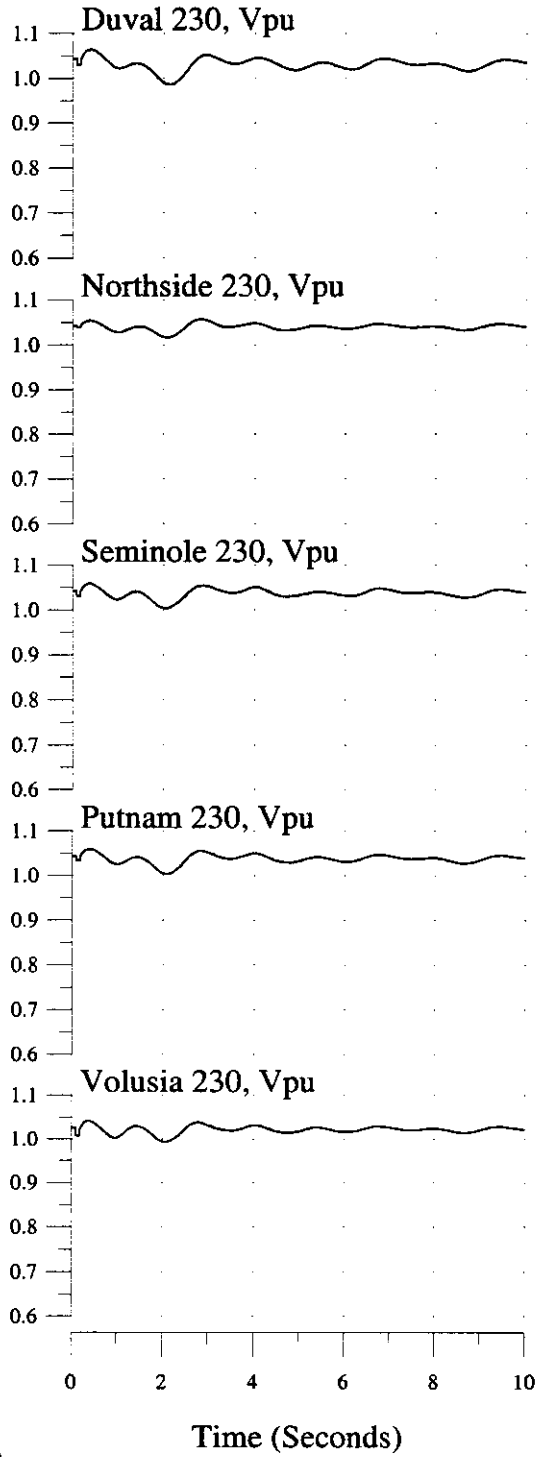
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



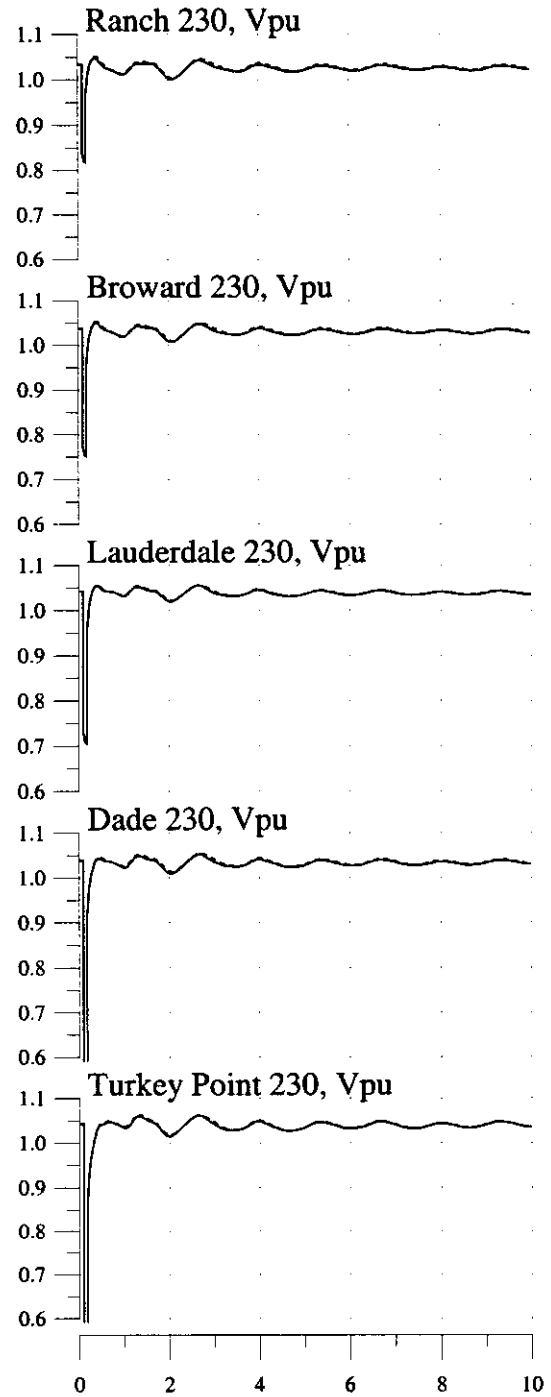
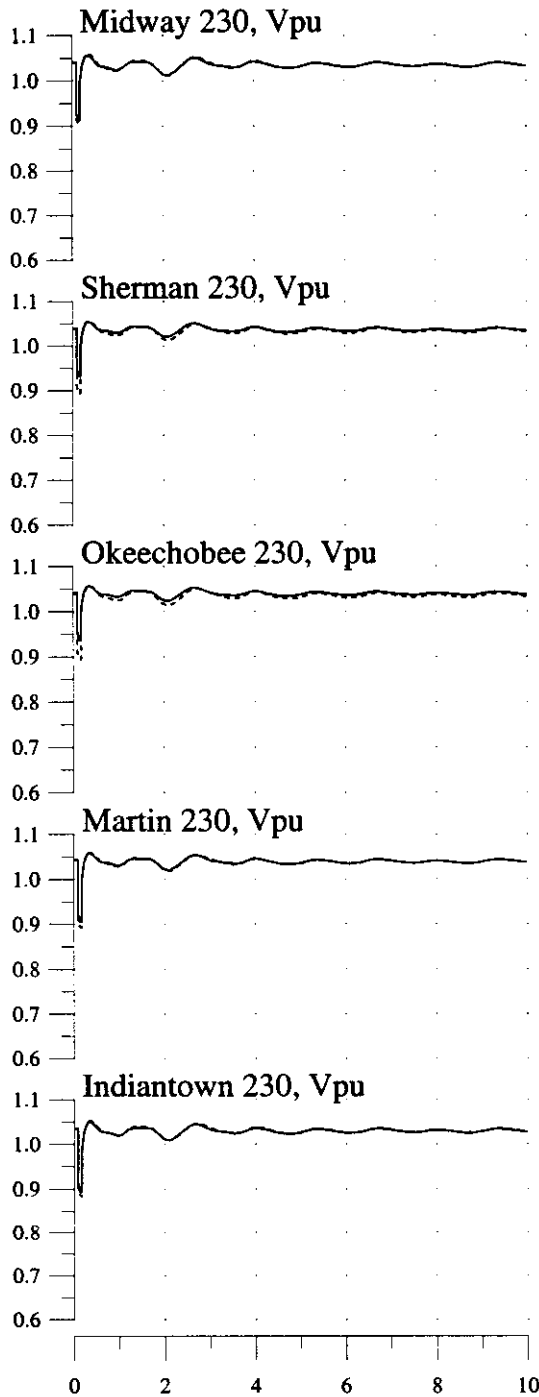
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



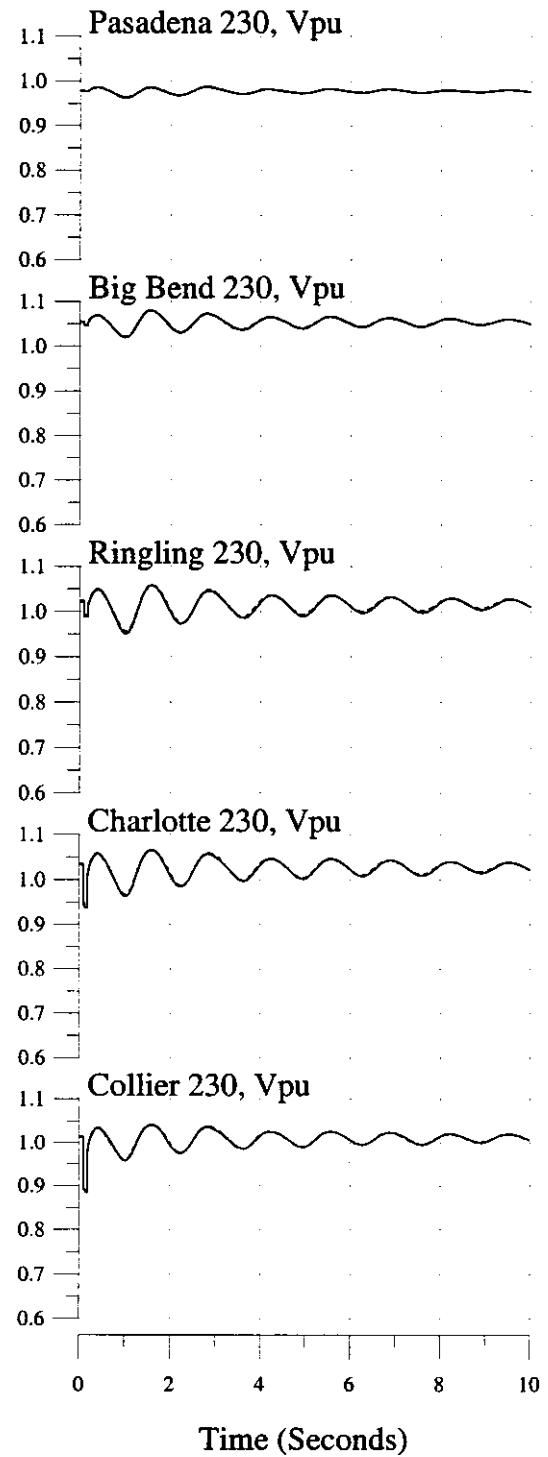
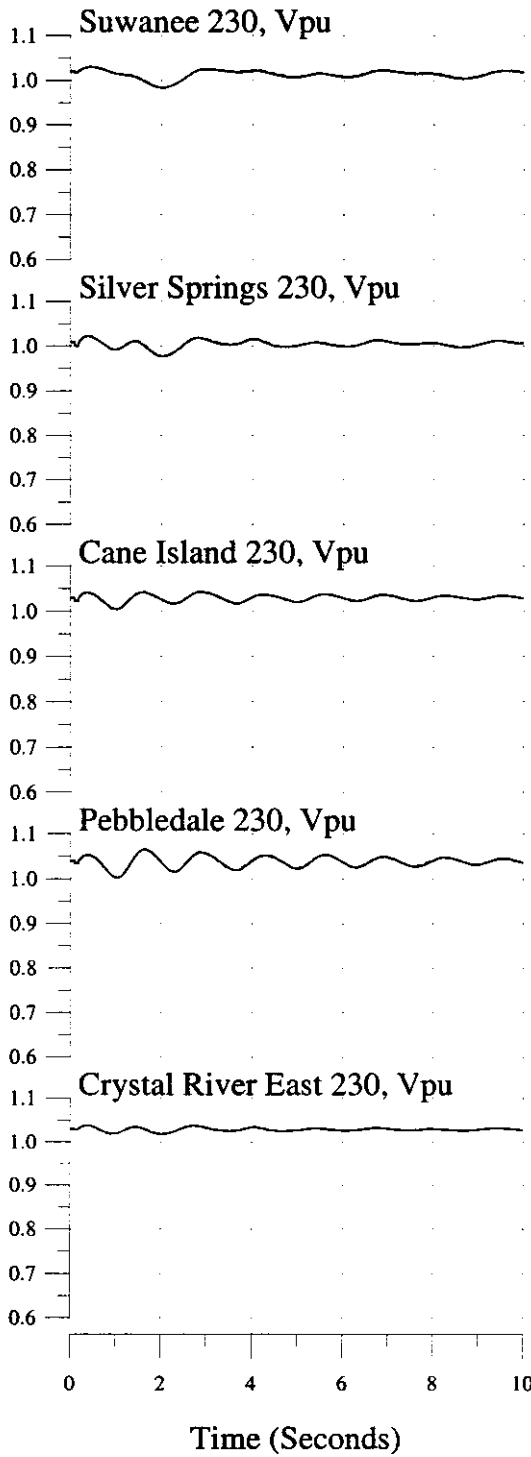
Time (Seconds)

Time (Seconds)



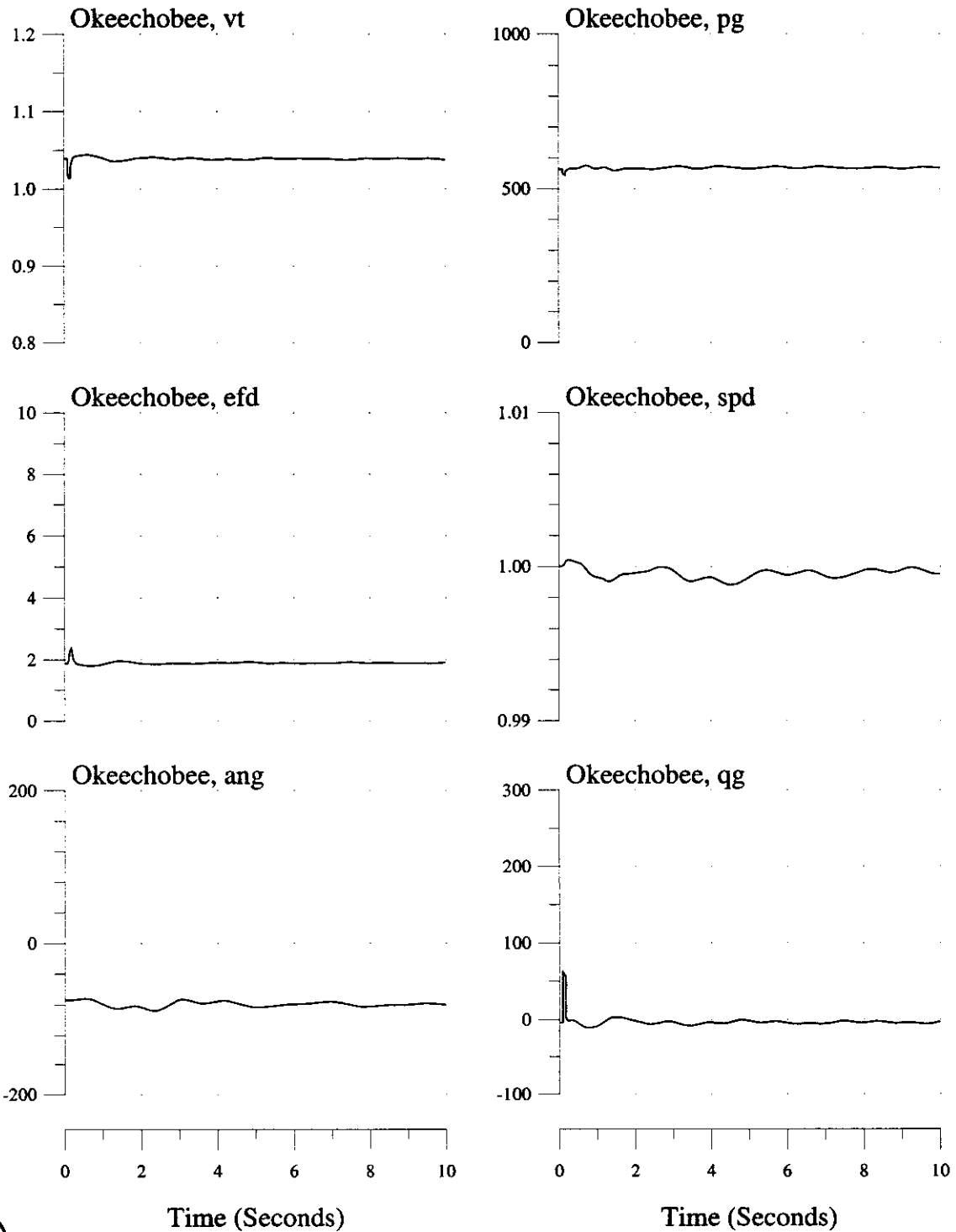
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



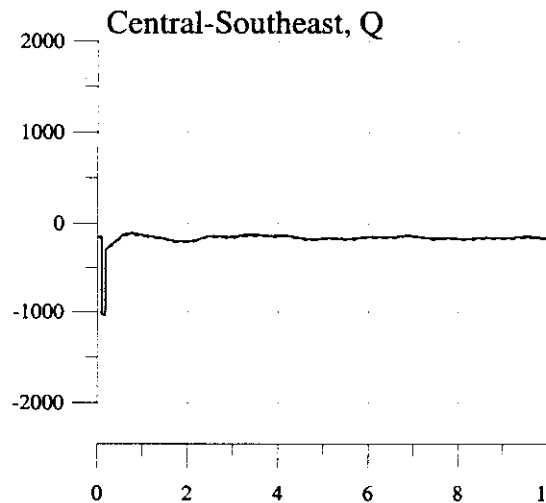
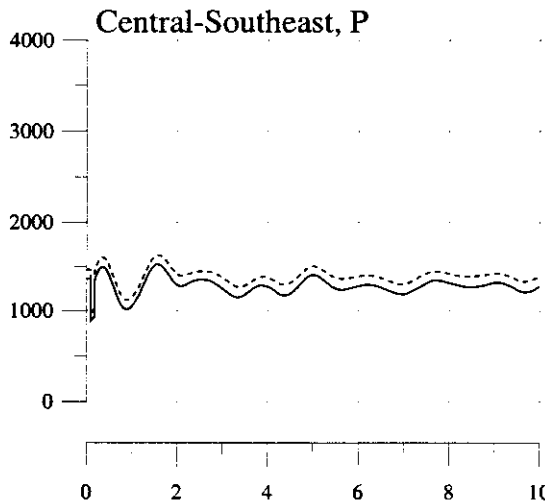
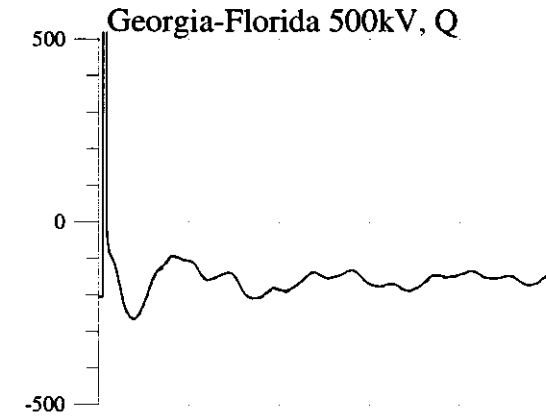
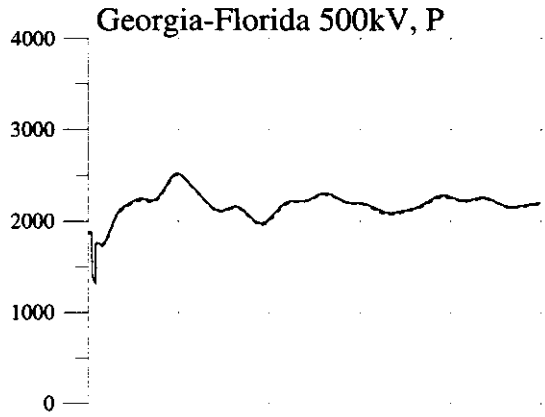
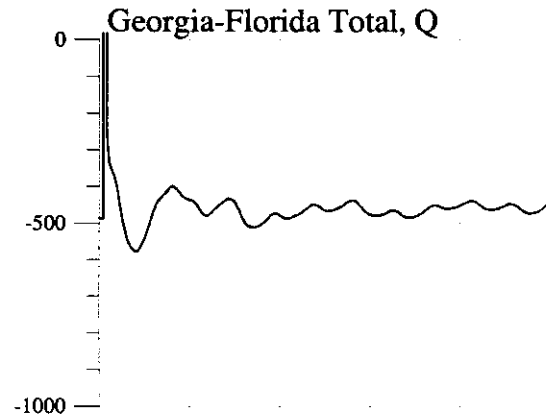
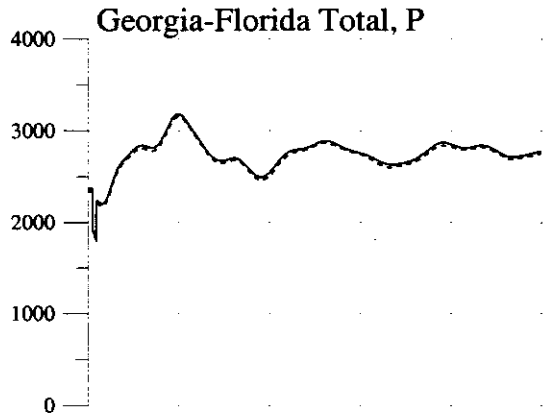
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without

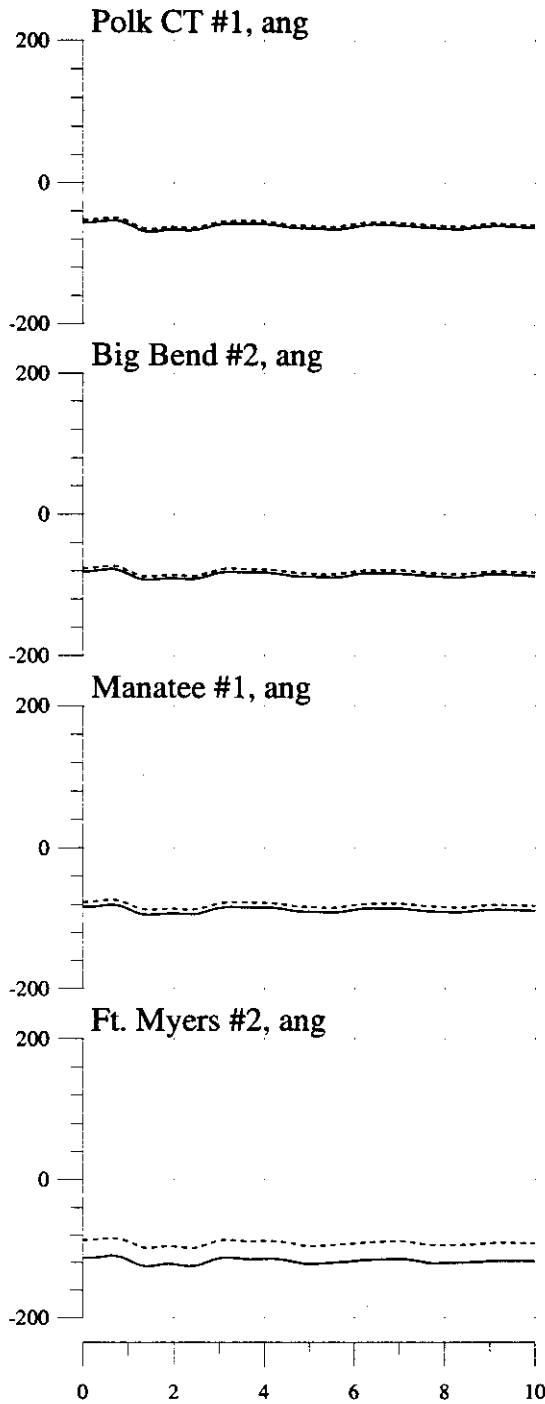
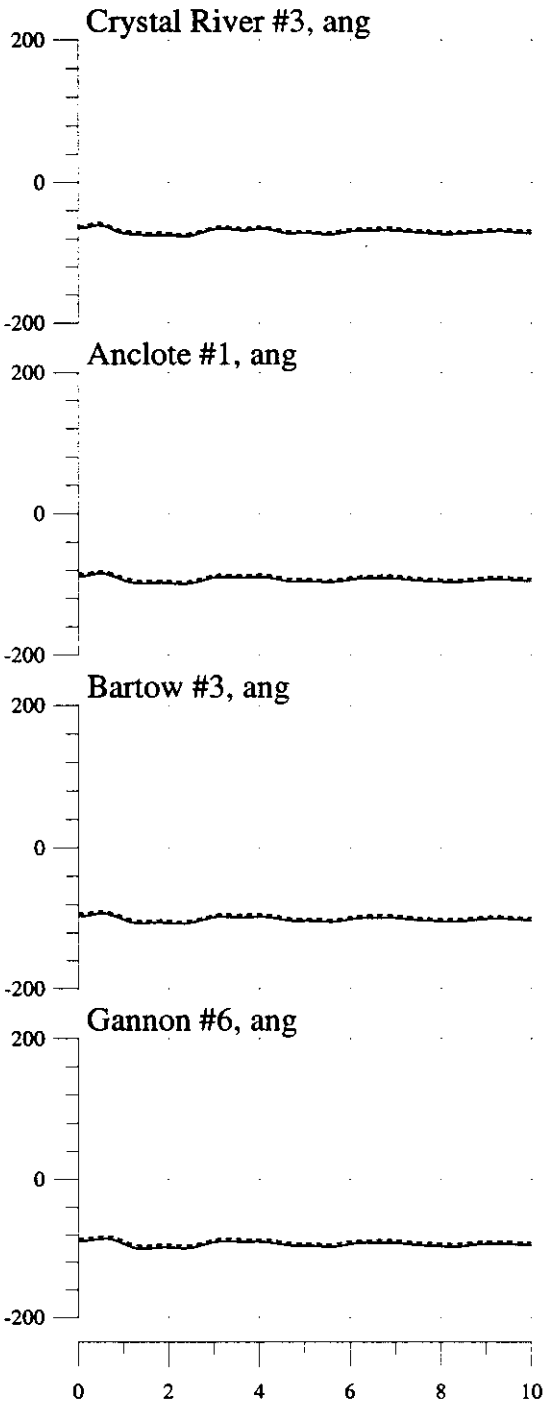


Time (Seconds)

Time (Seconds)



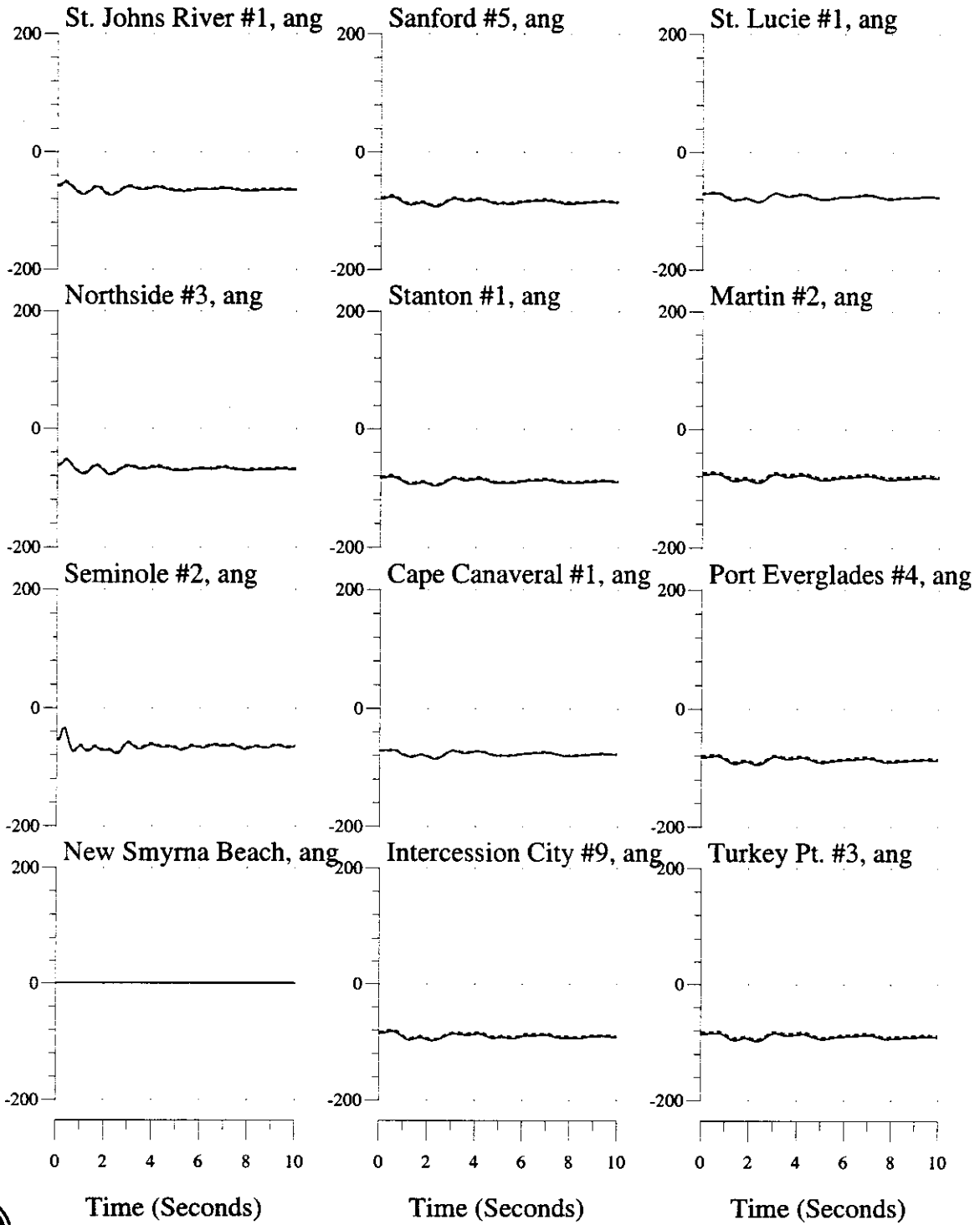
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System  
 Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without





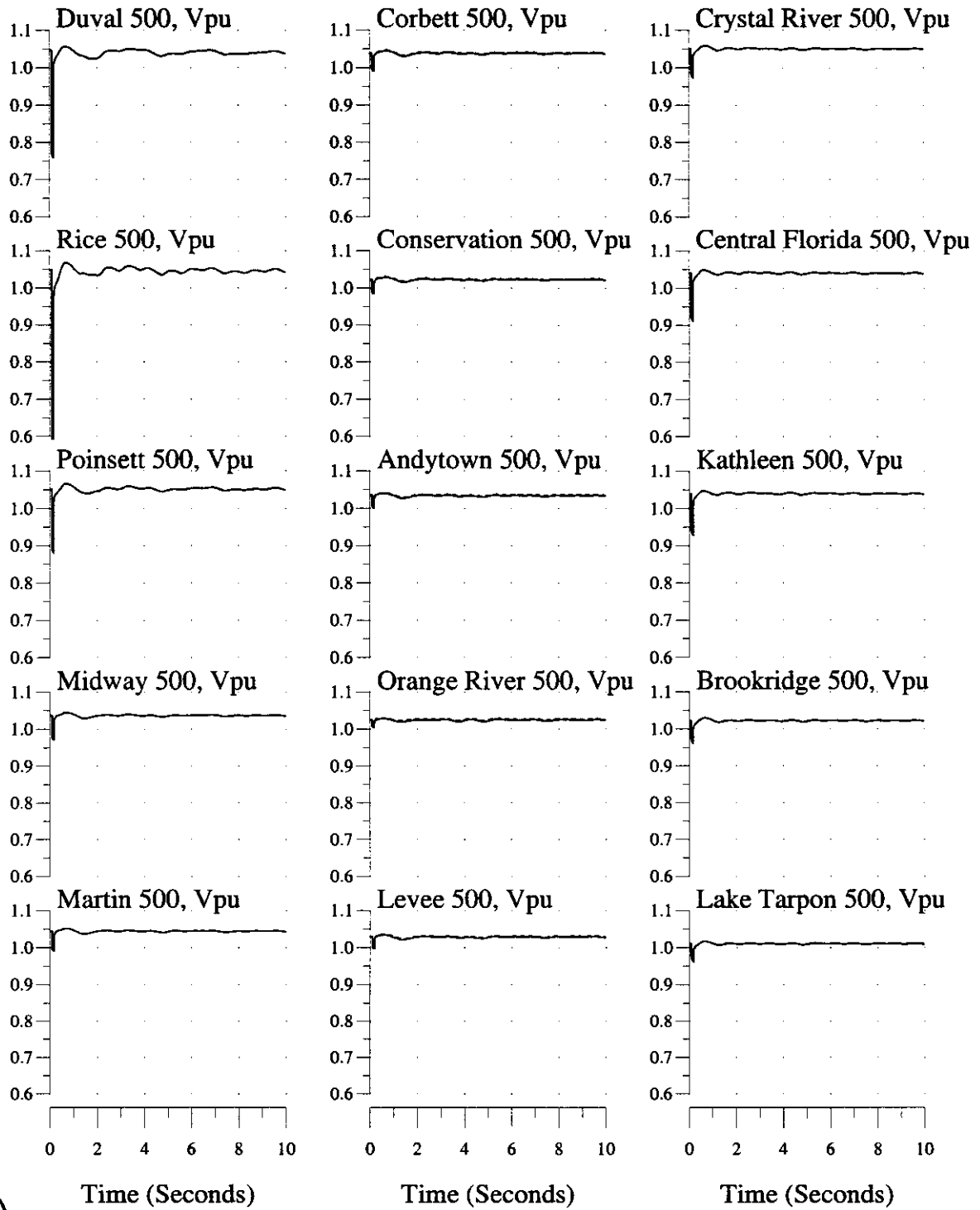
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



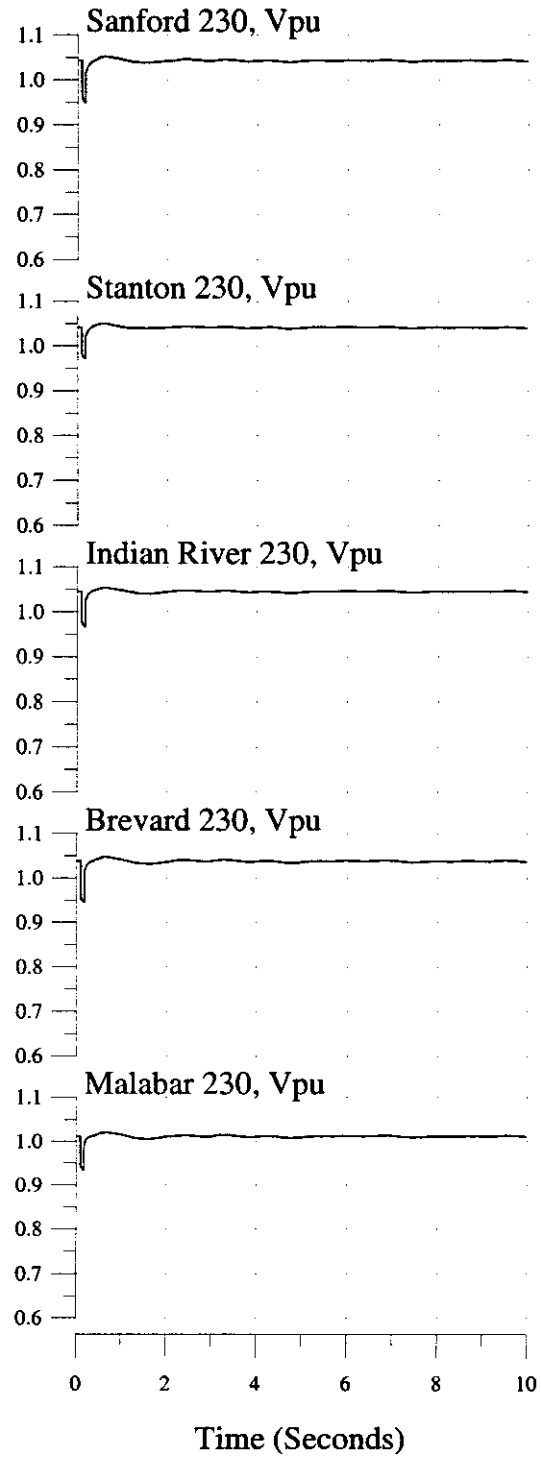
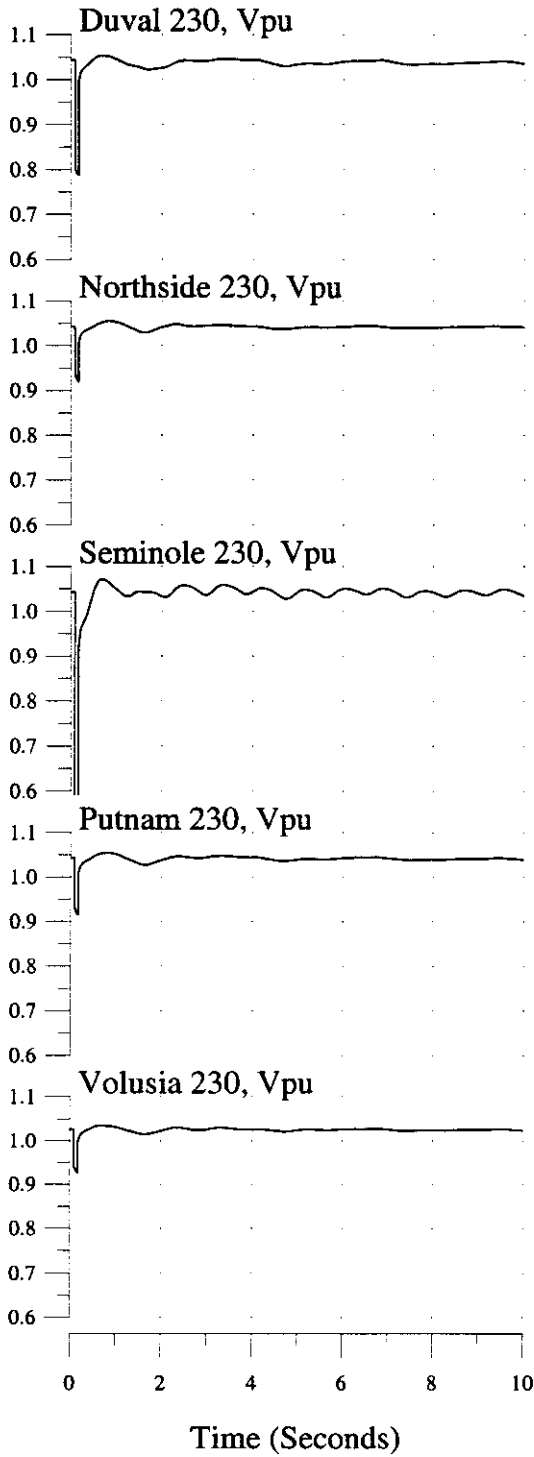
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



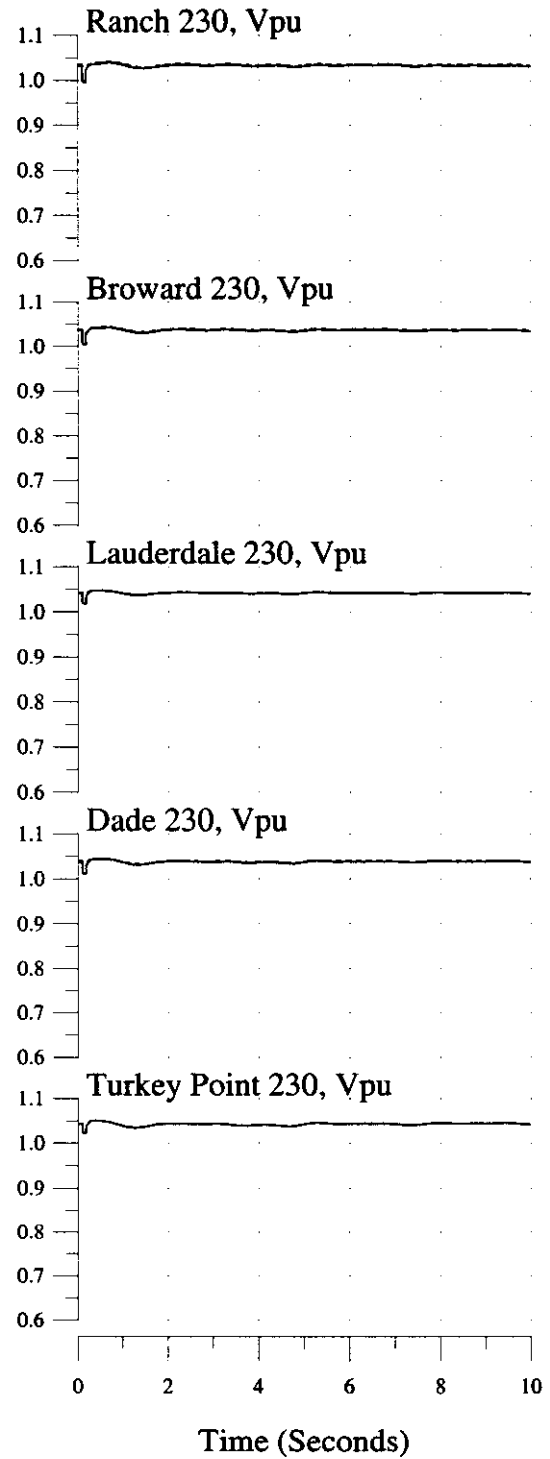
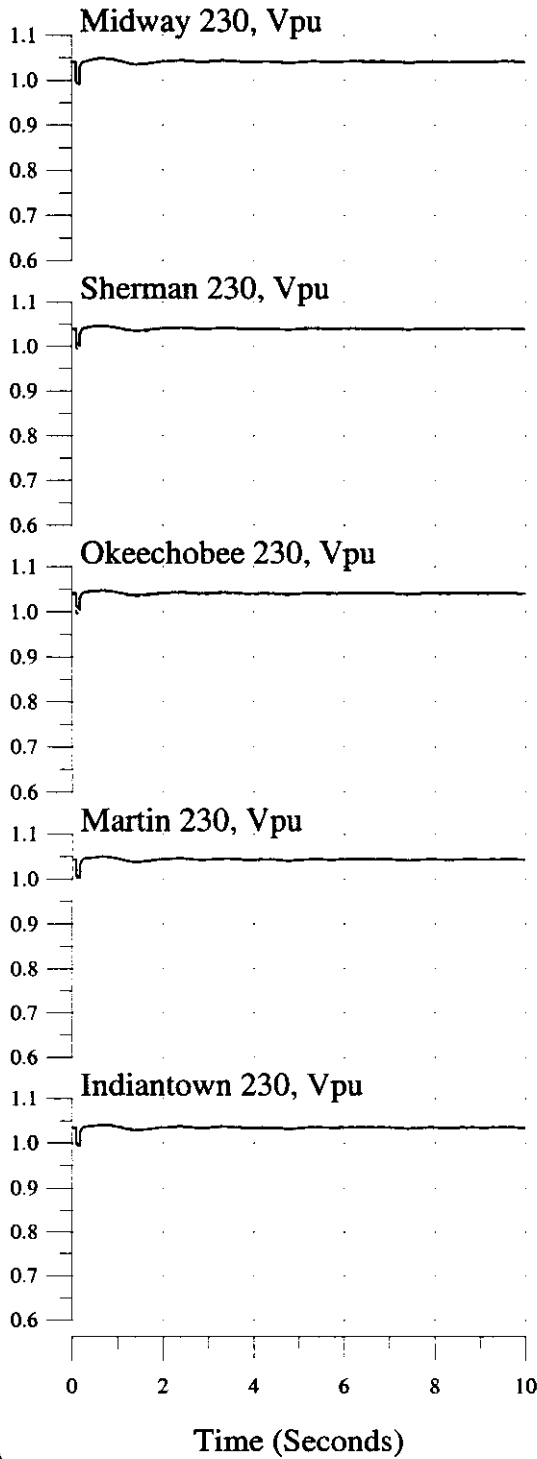
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



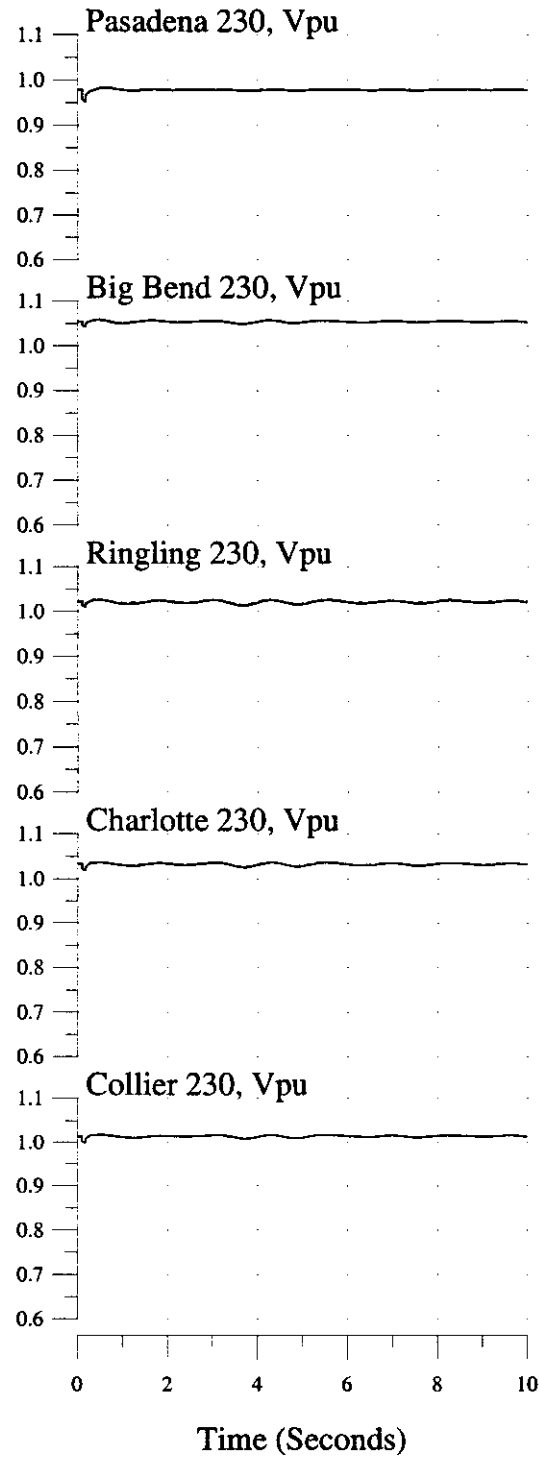
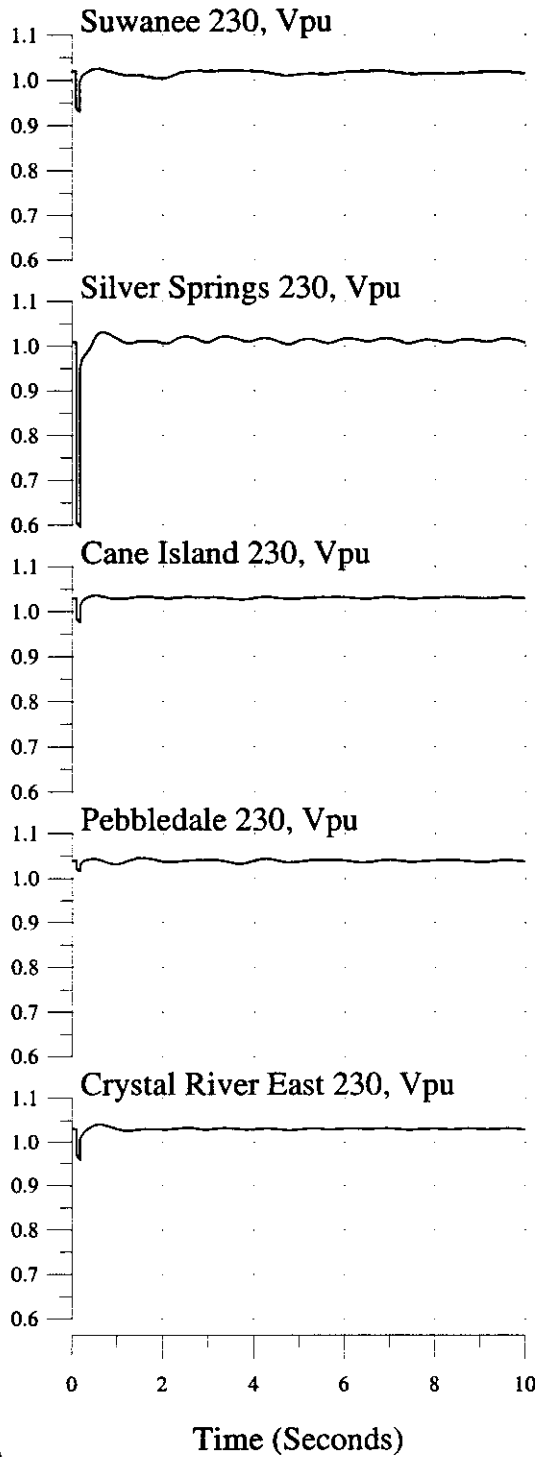
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



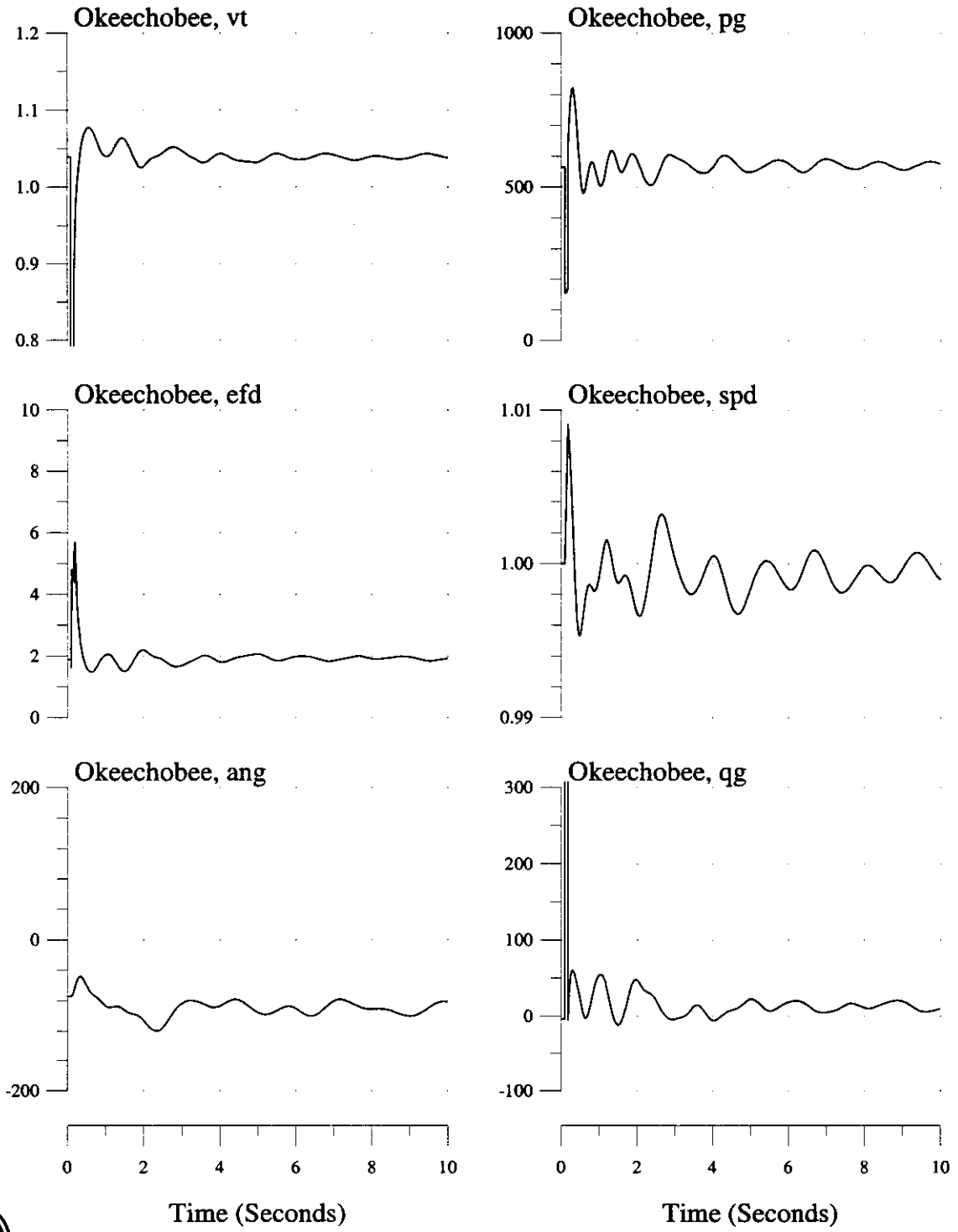
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



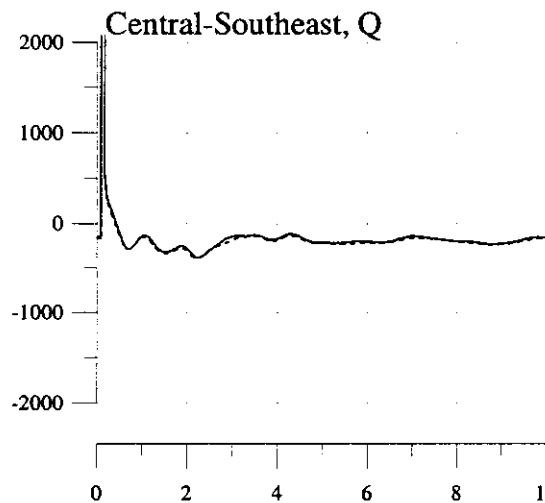
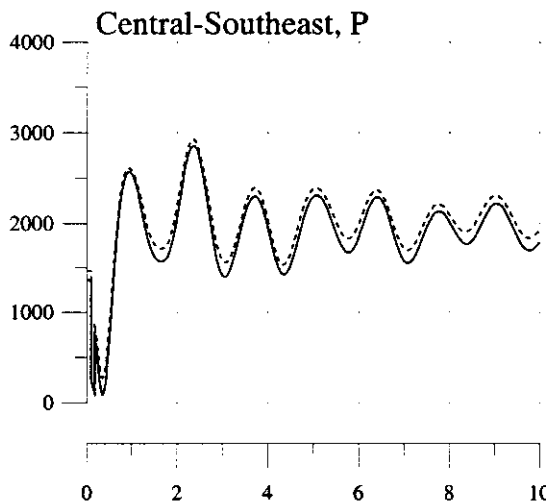
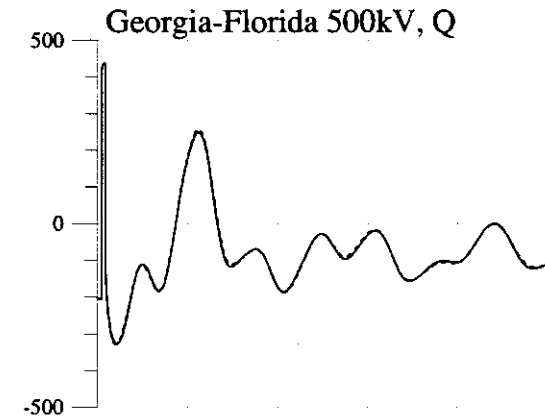
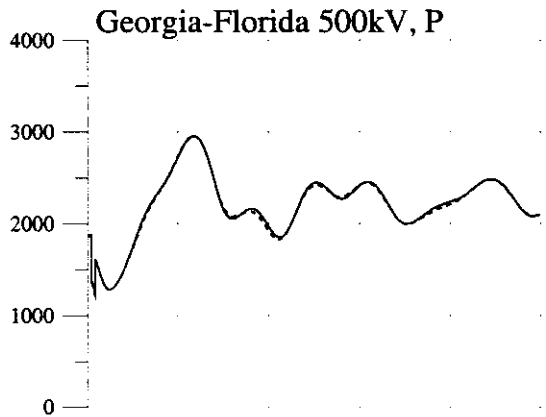
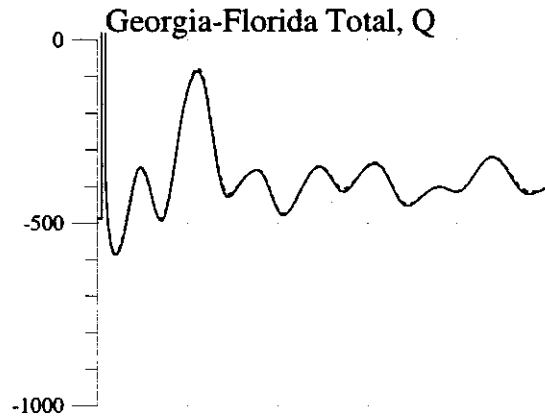
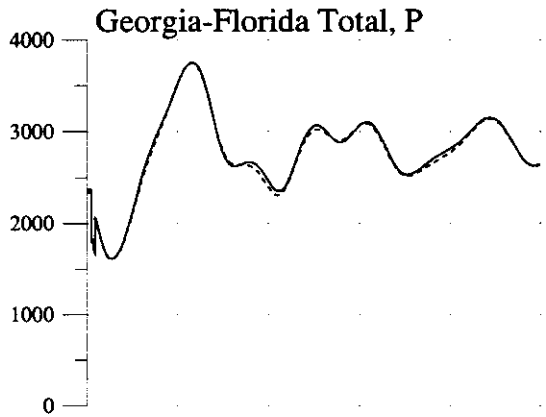
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



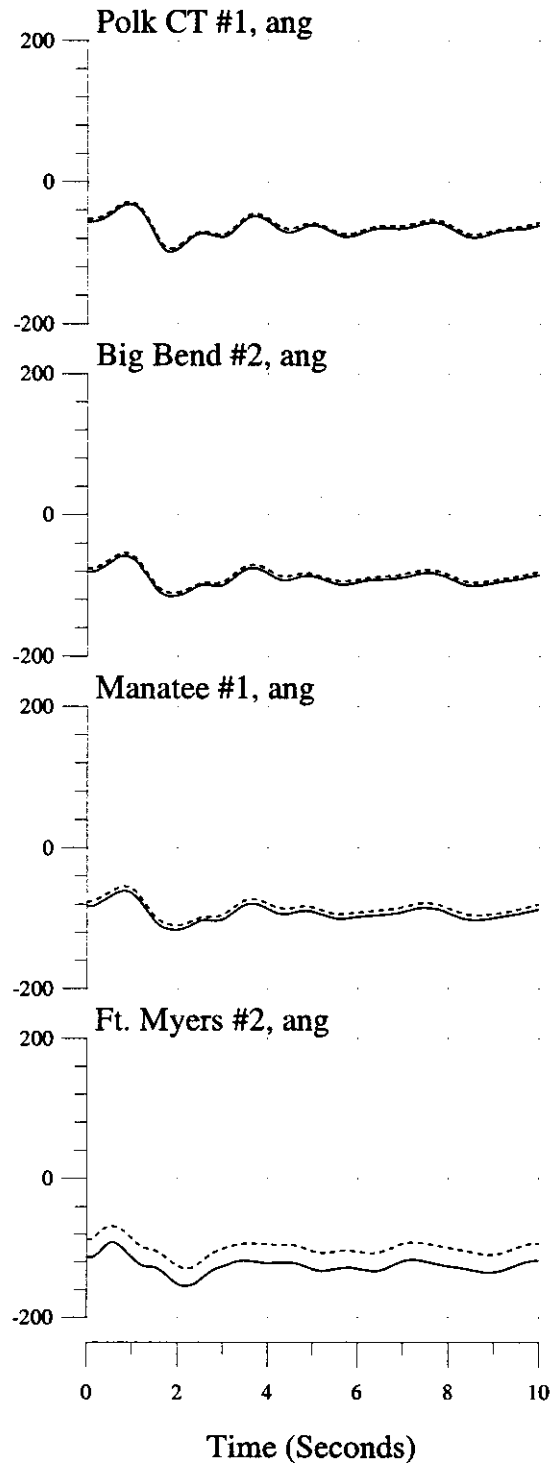
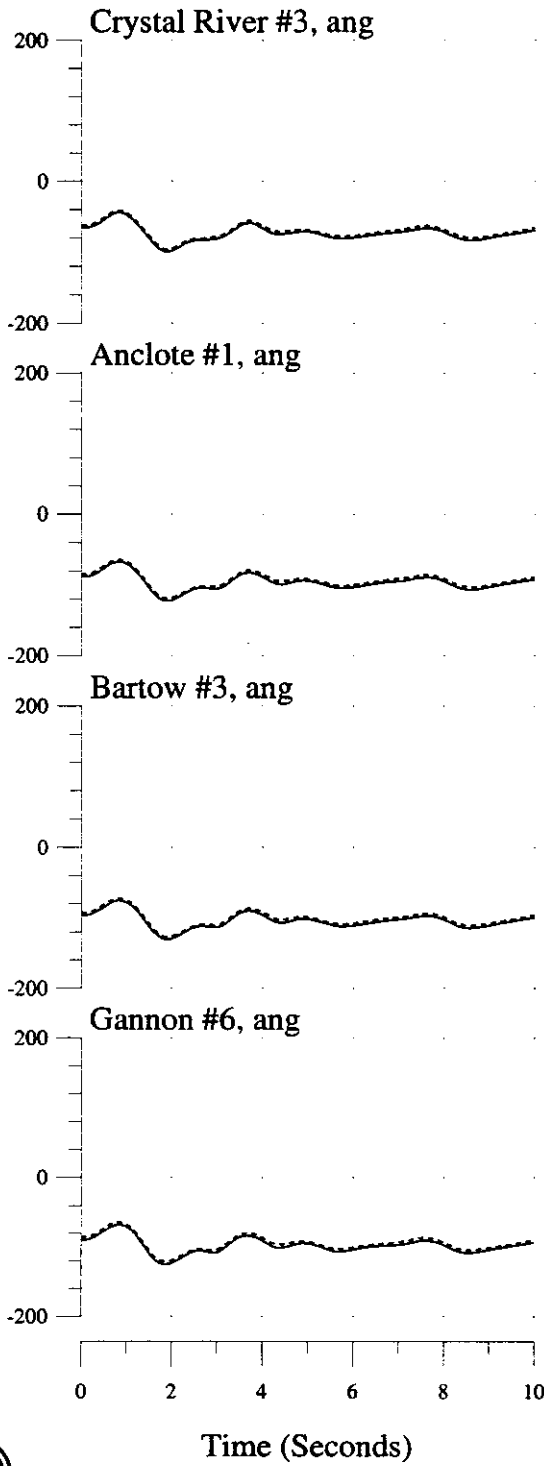
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

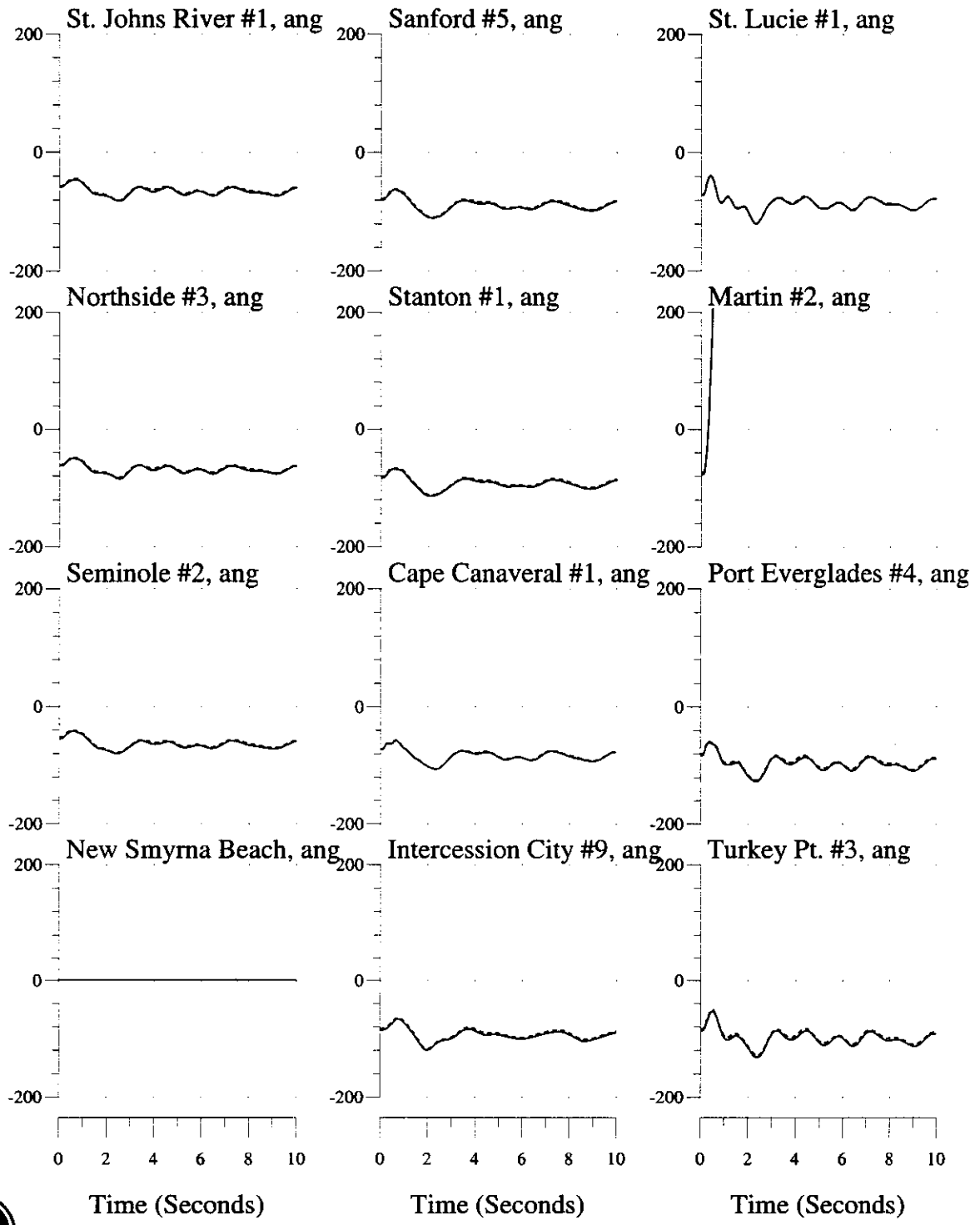
Machine Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without





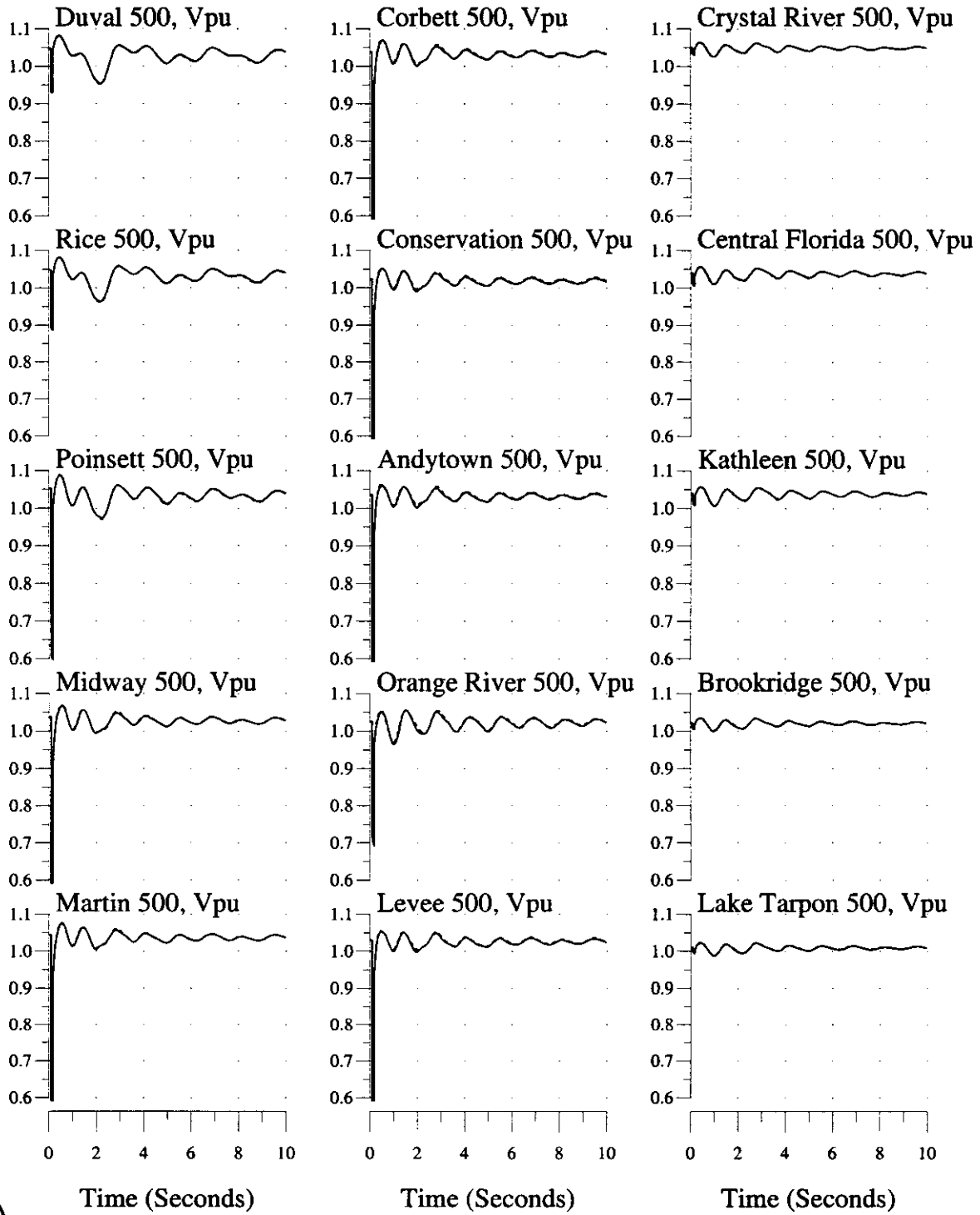
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
 2003 Winter System

Machine Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



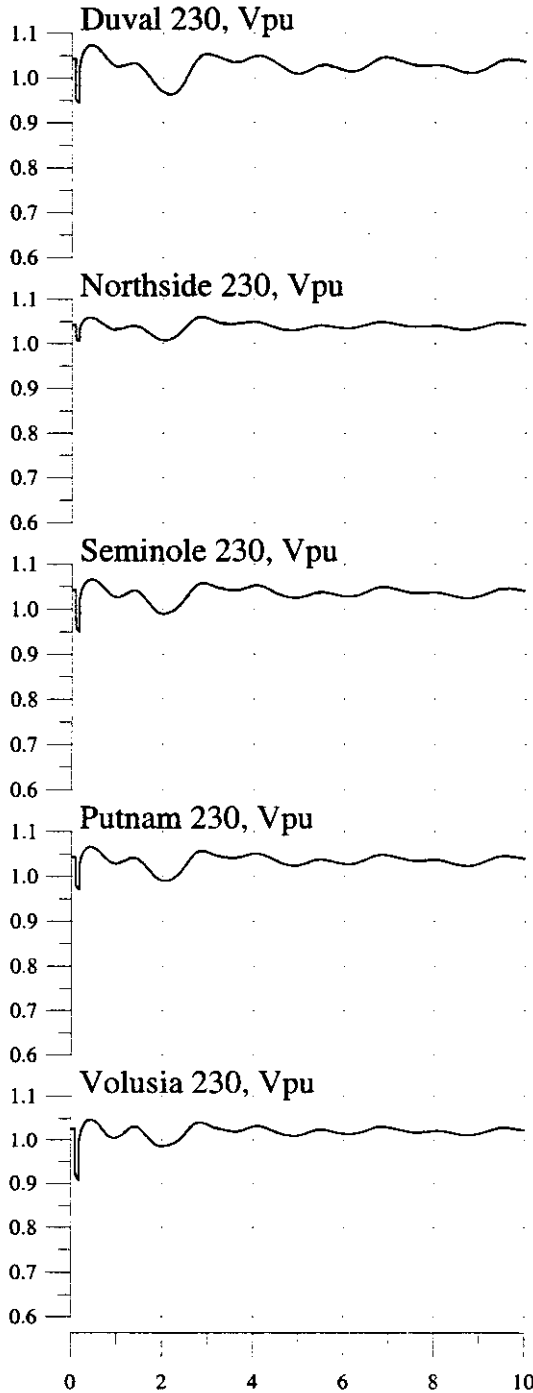
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without

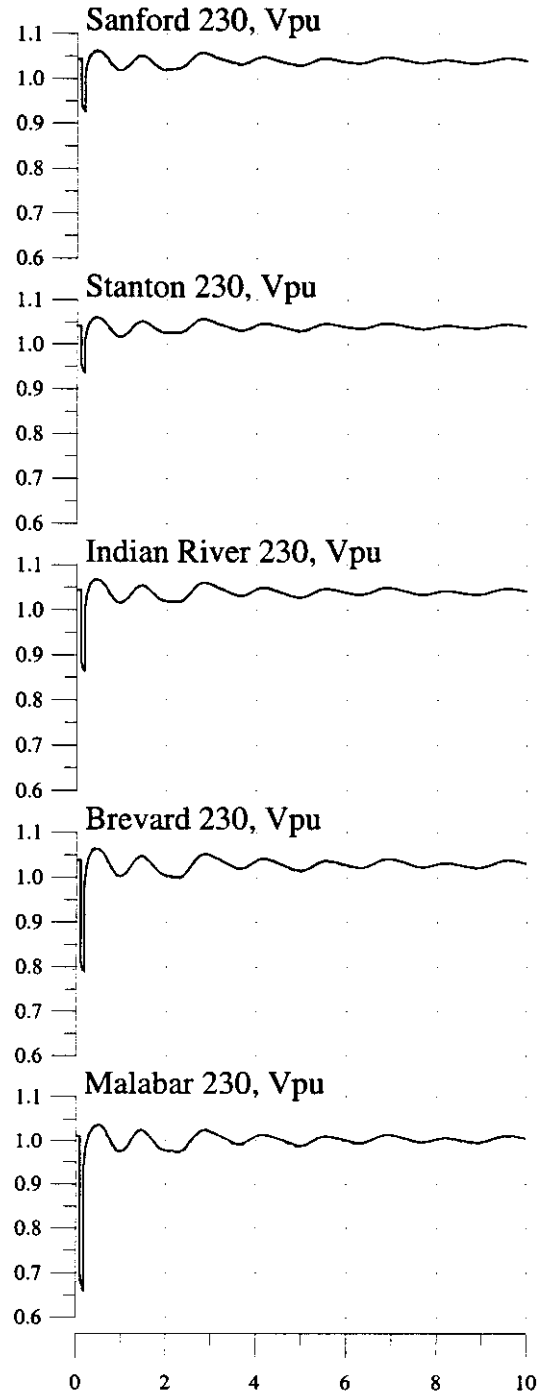


3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



Time (Seconds)

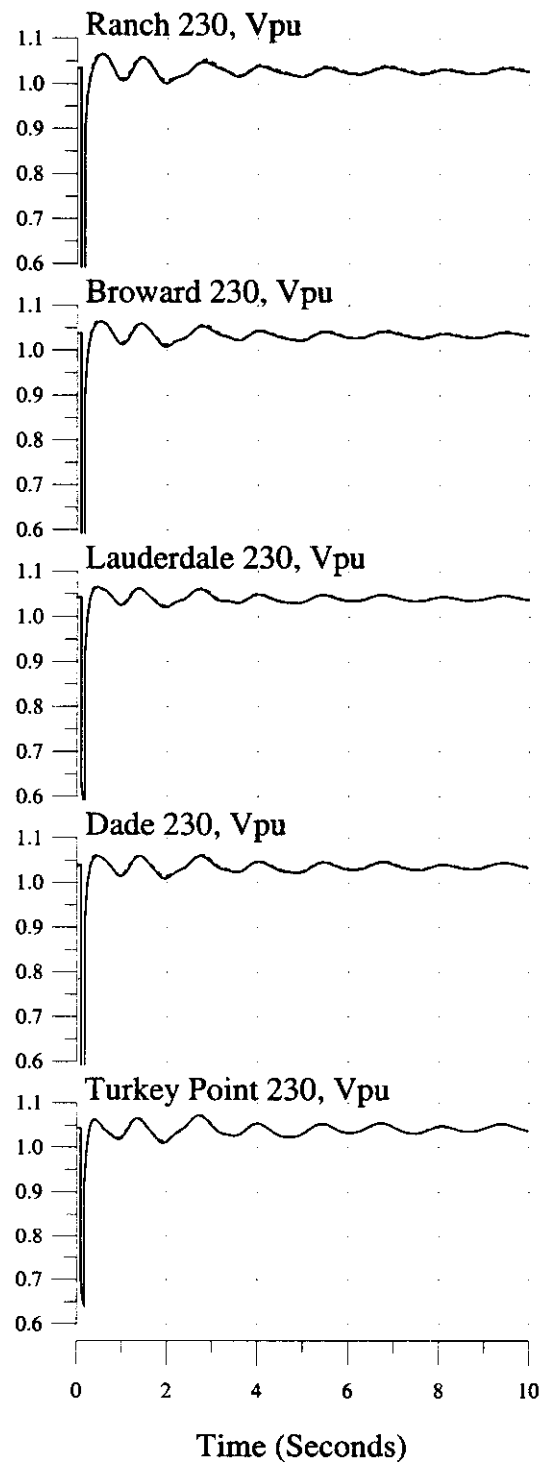
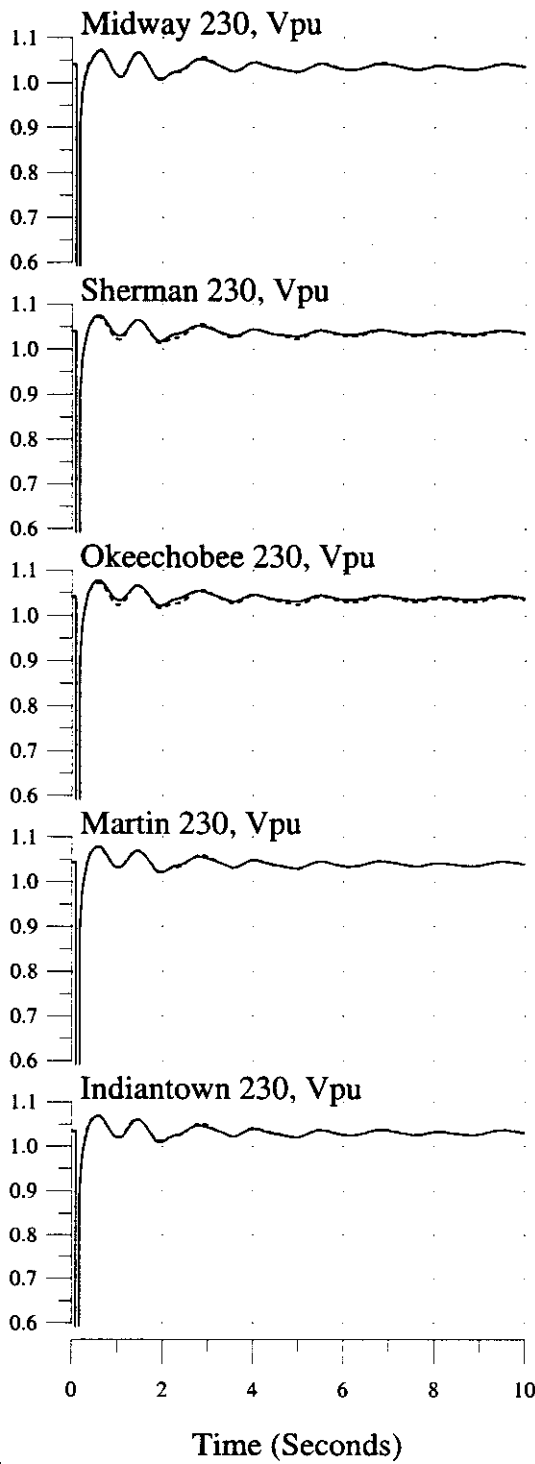


Time (Seconds)



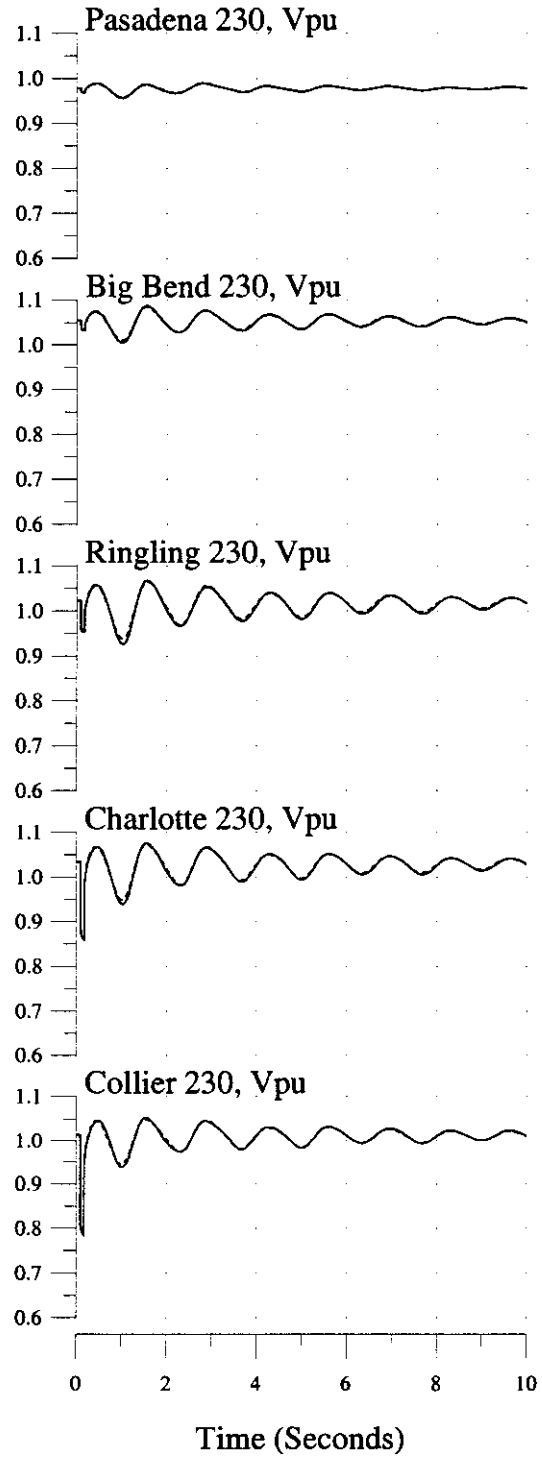
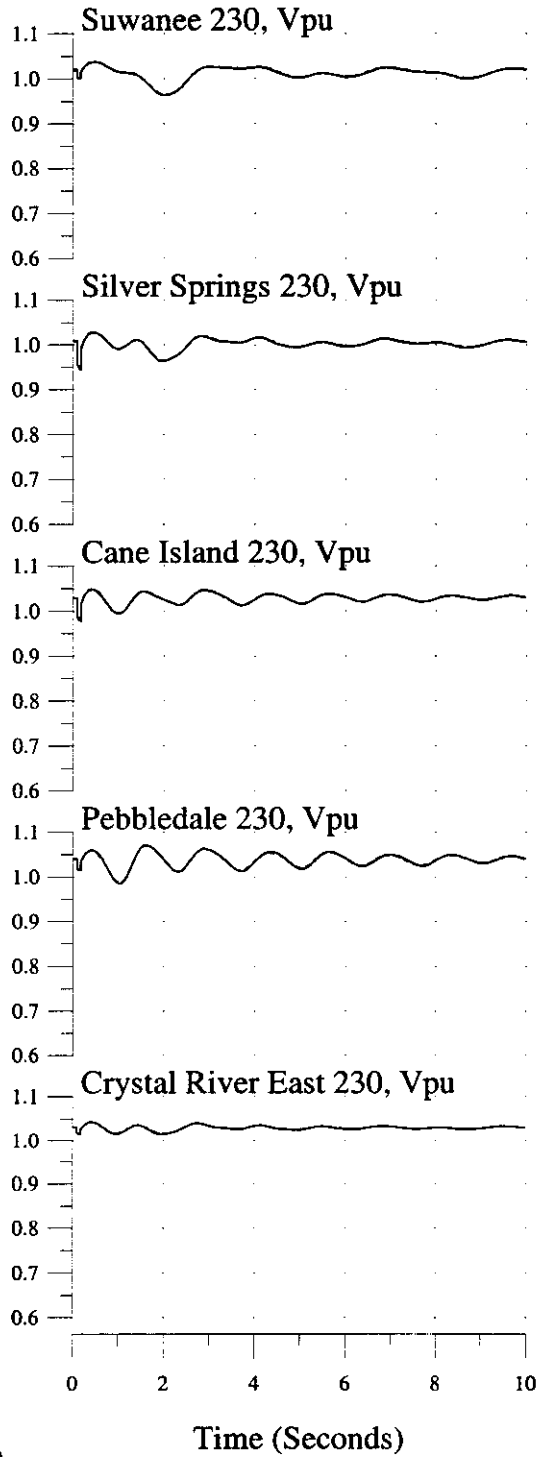
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



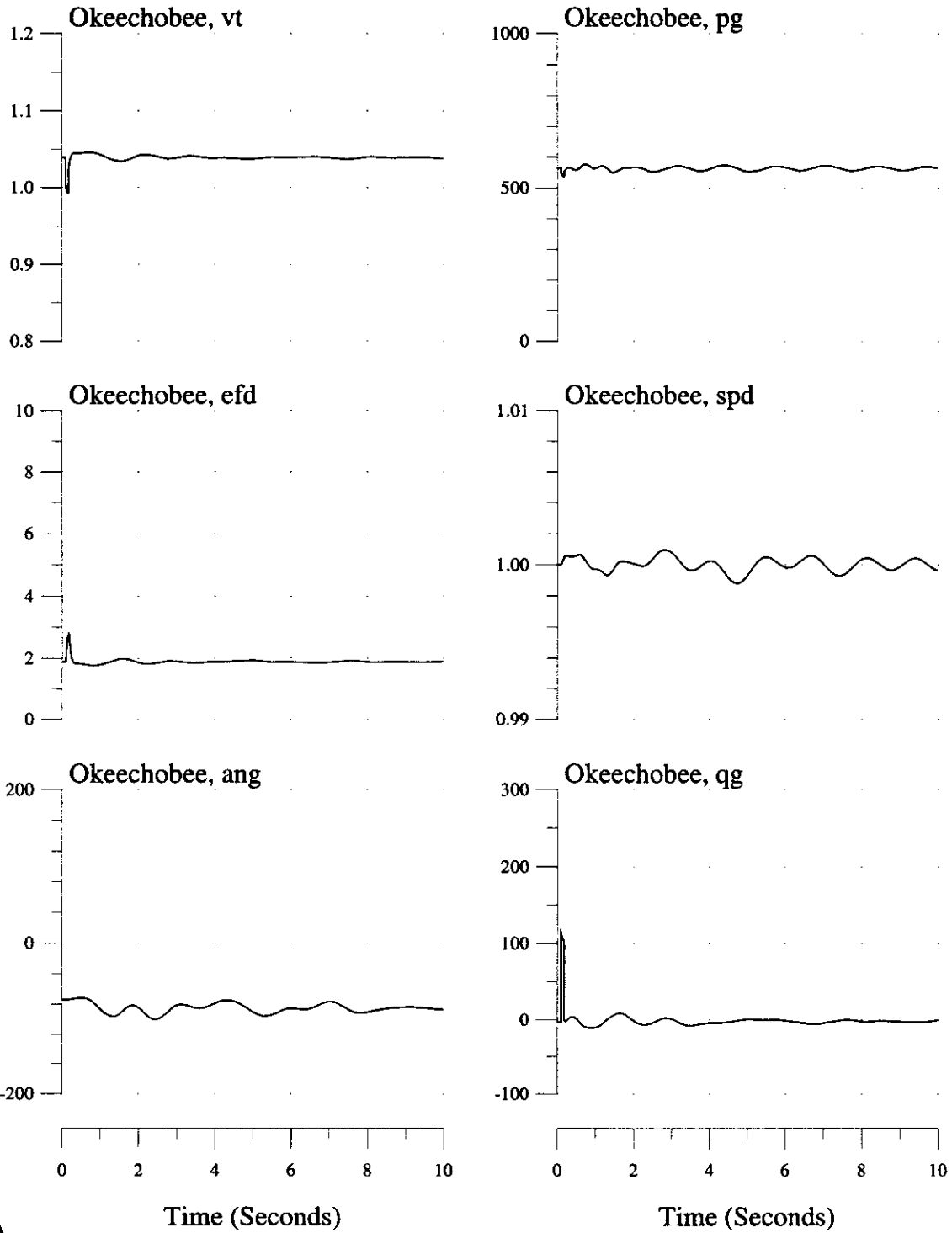
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



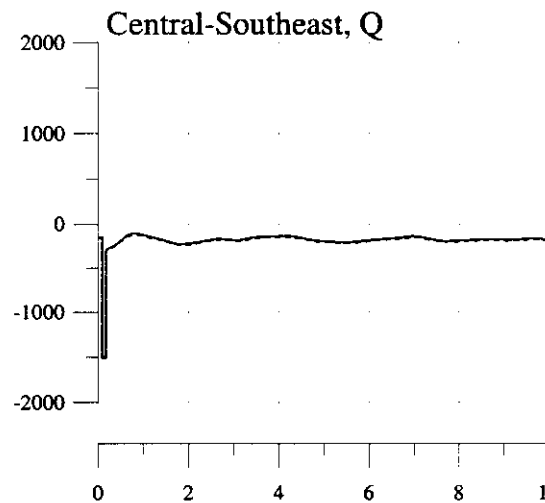
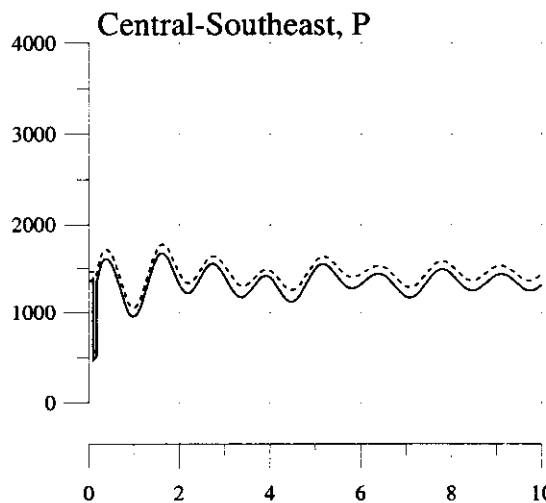
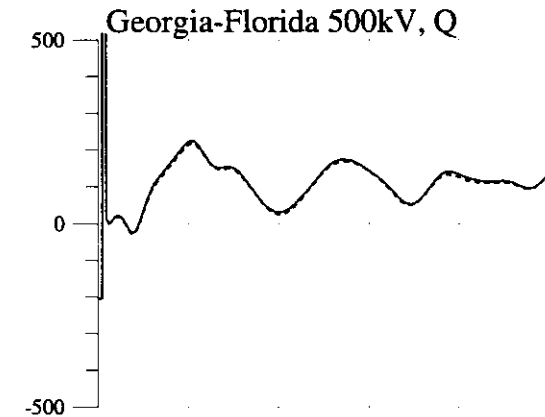
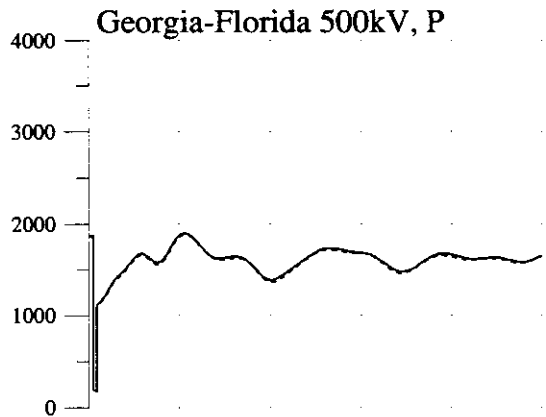
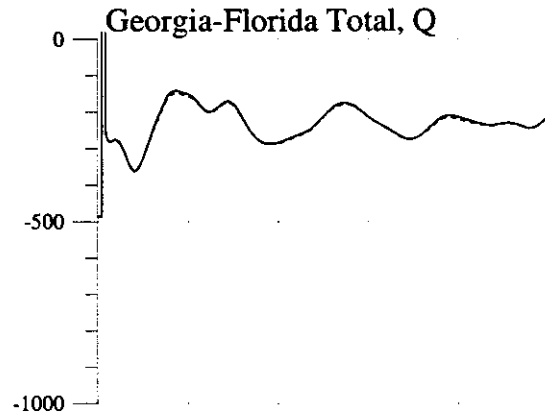
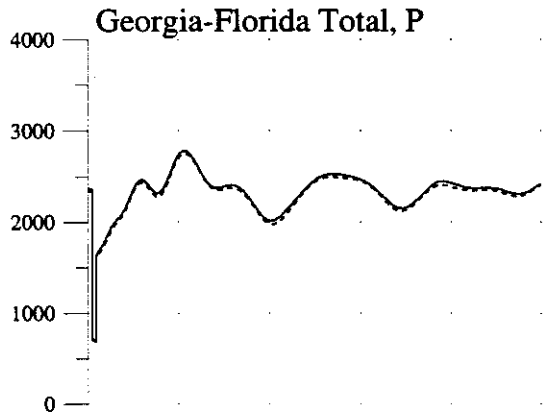
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



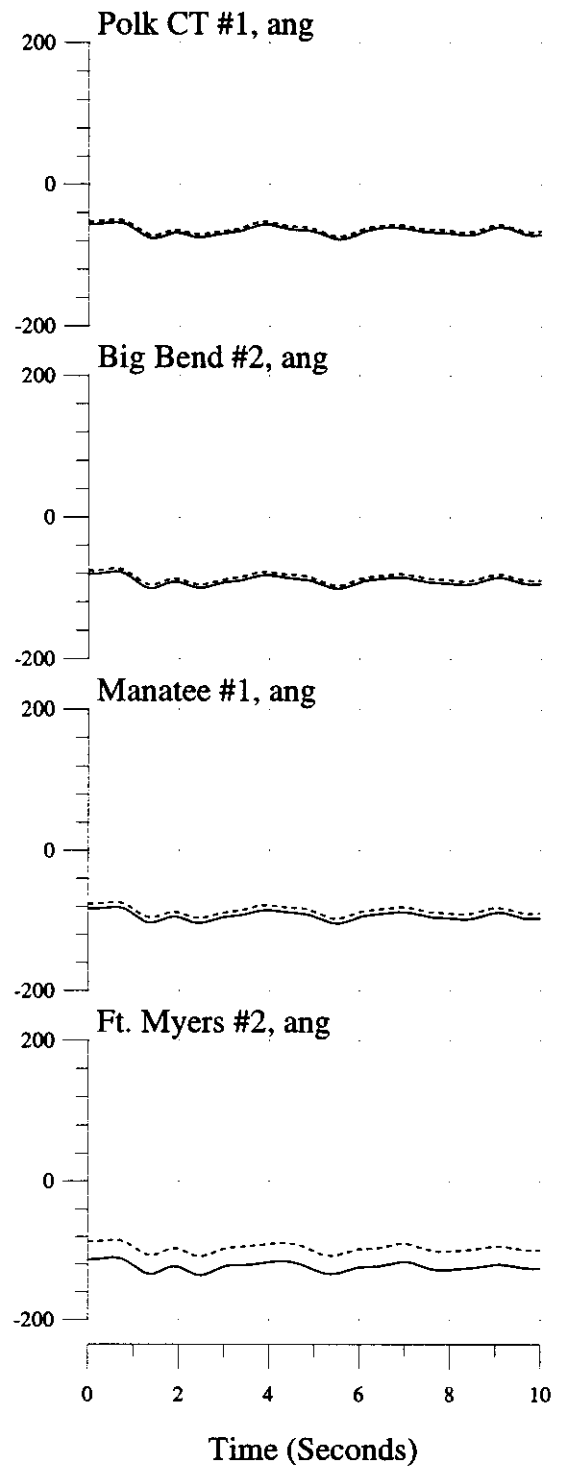
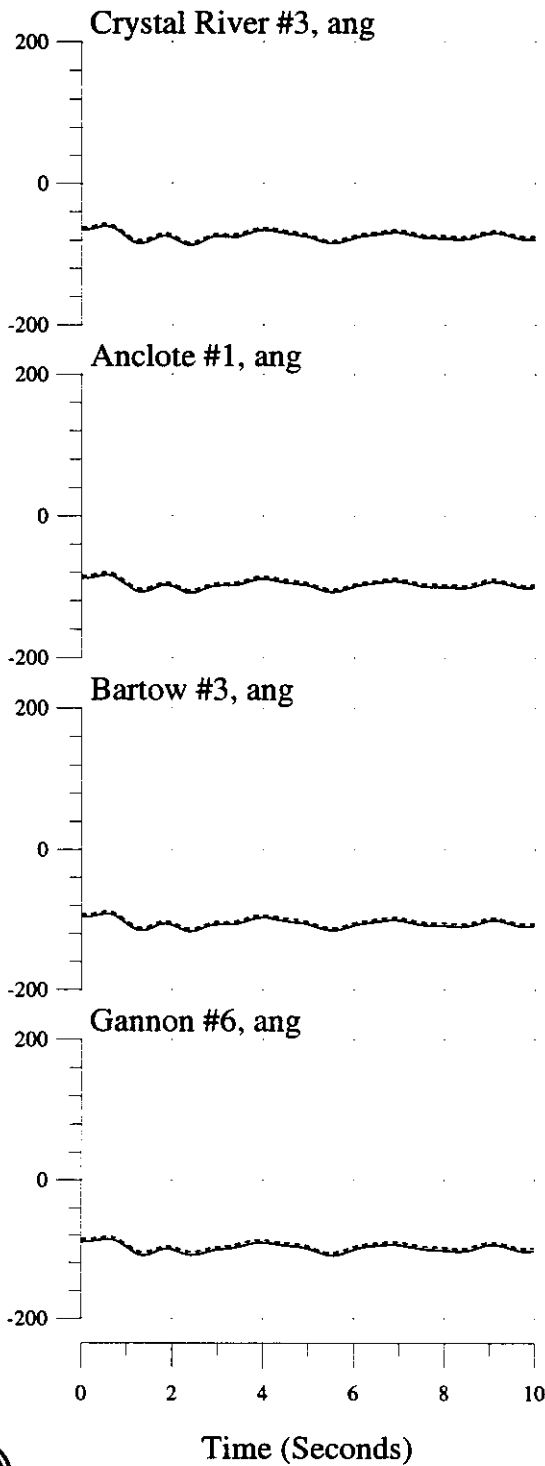
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

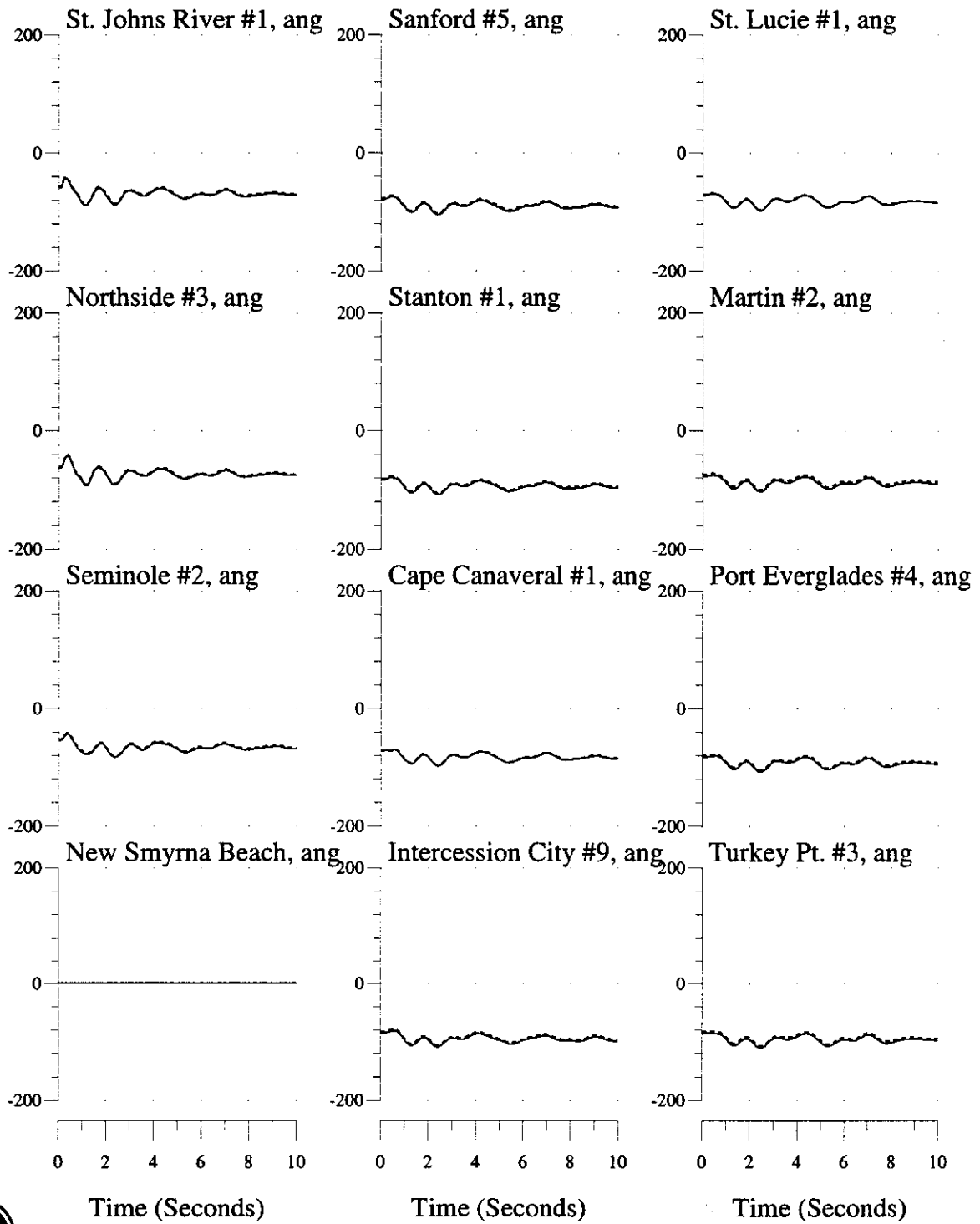
Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without





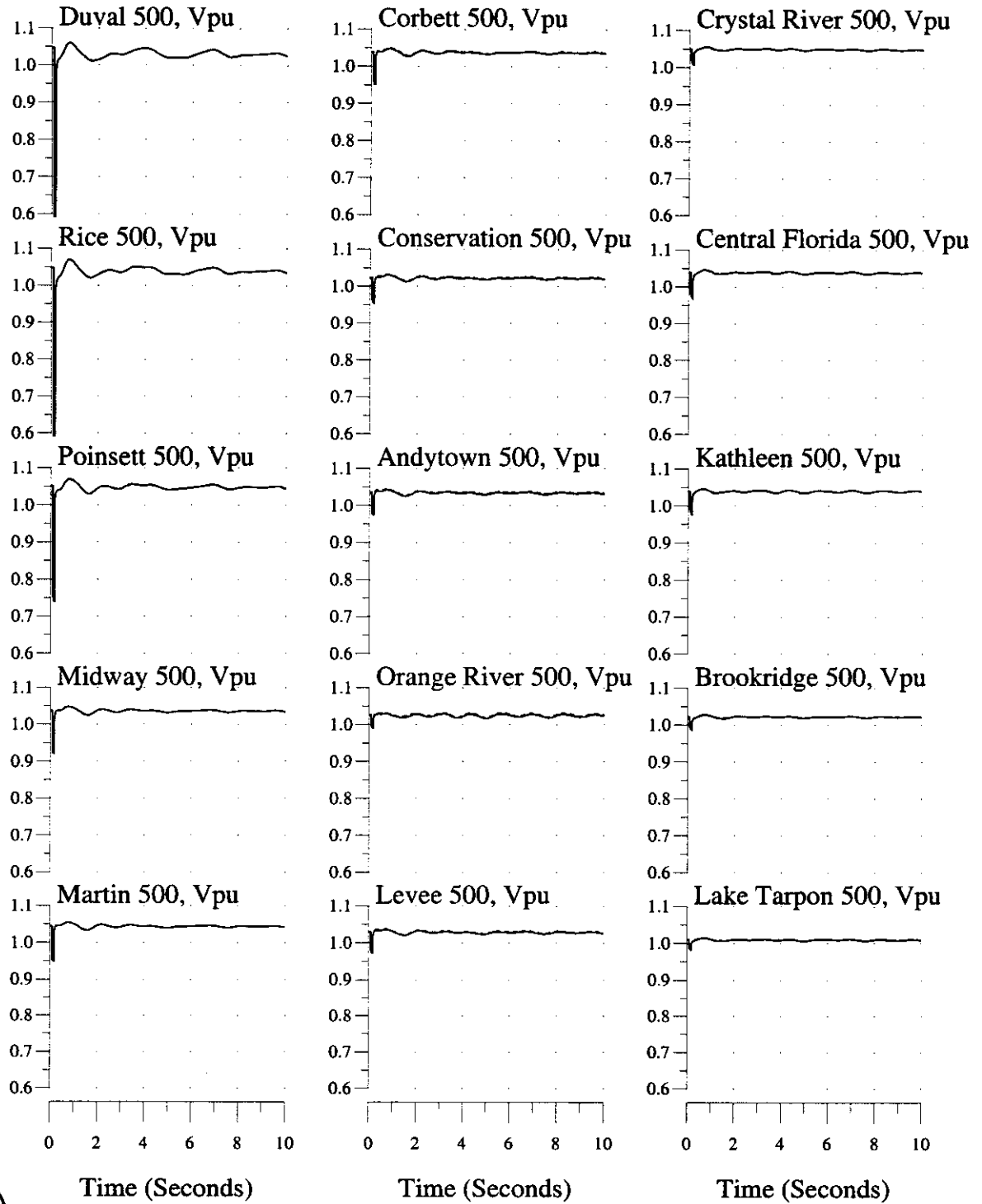
### 3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



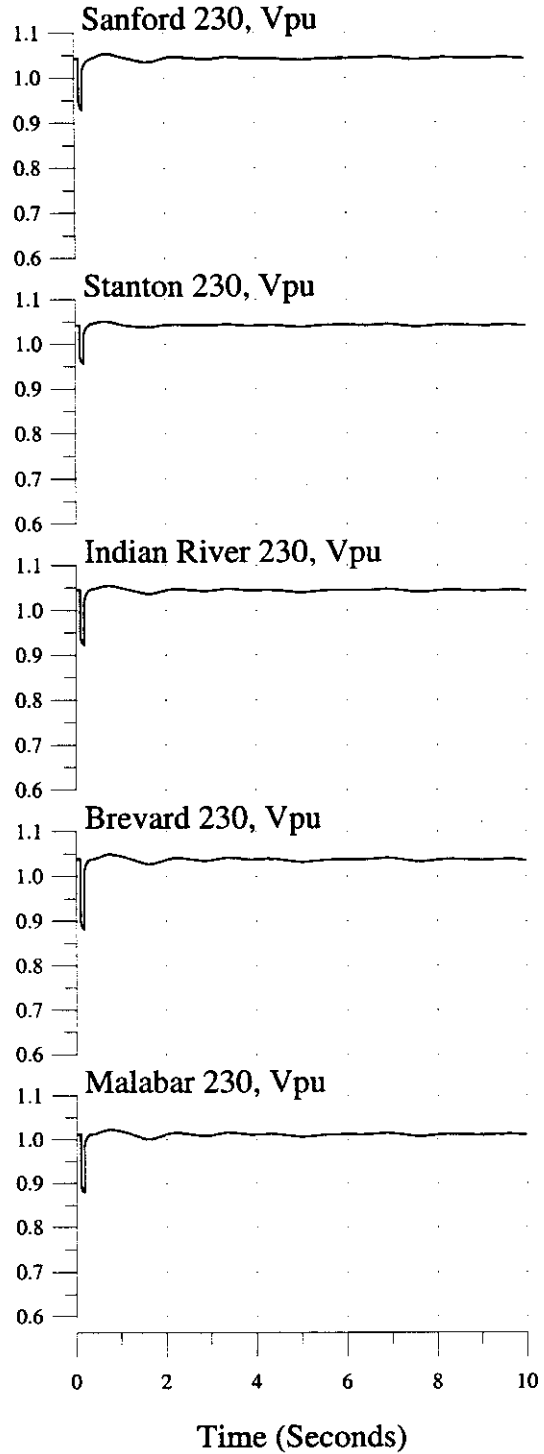
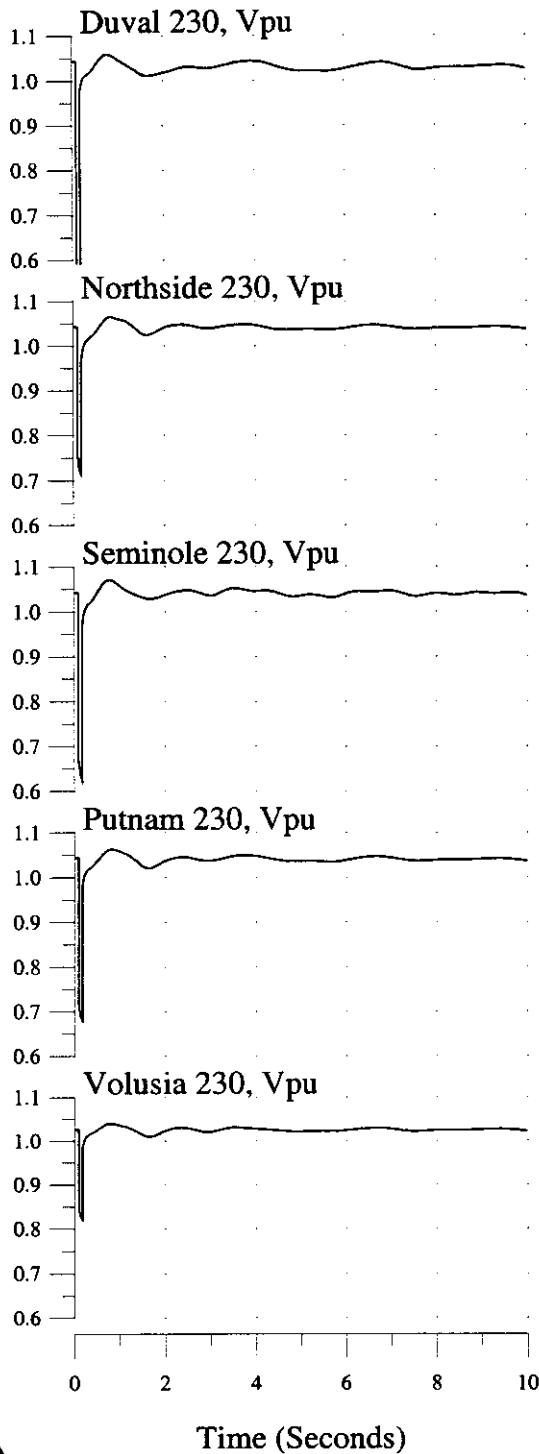
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



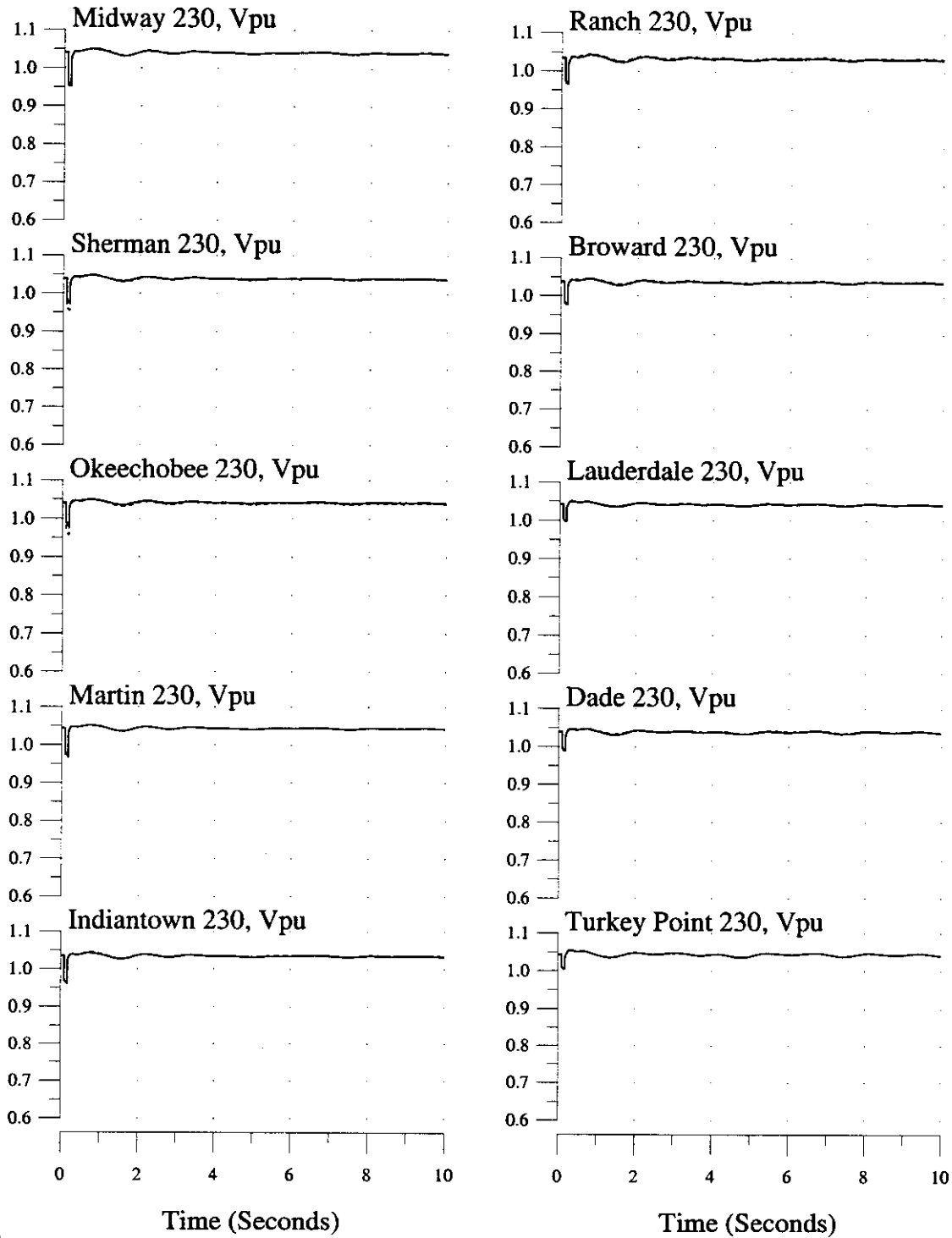
# 3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



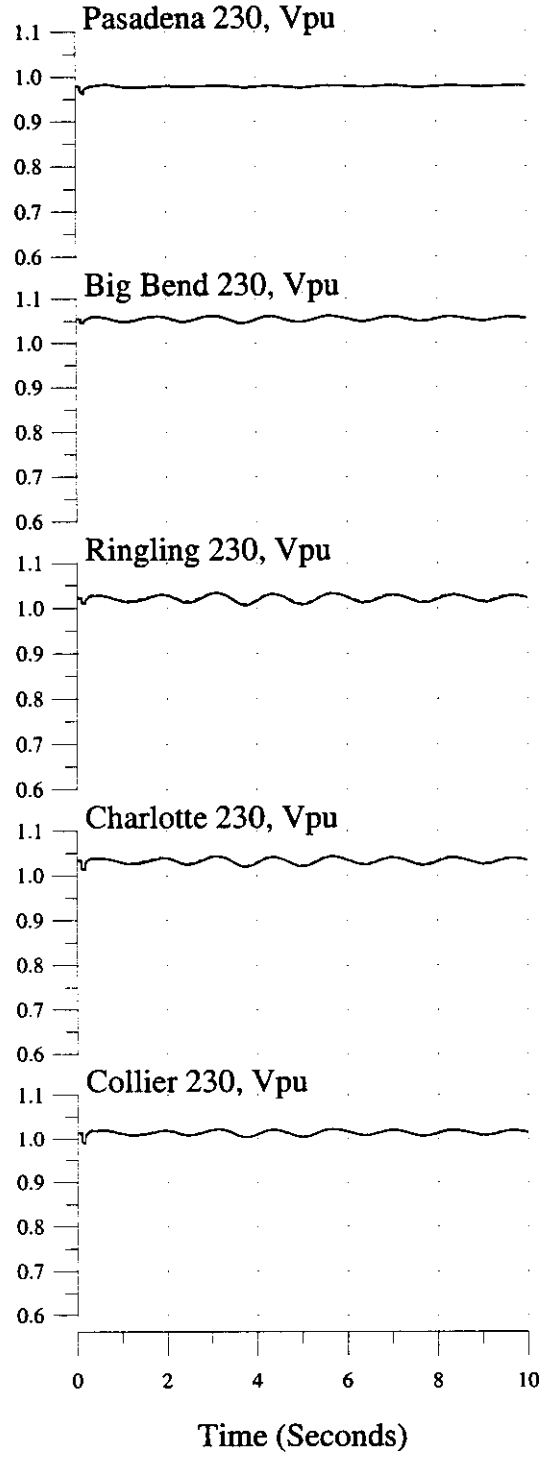
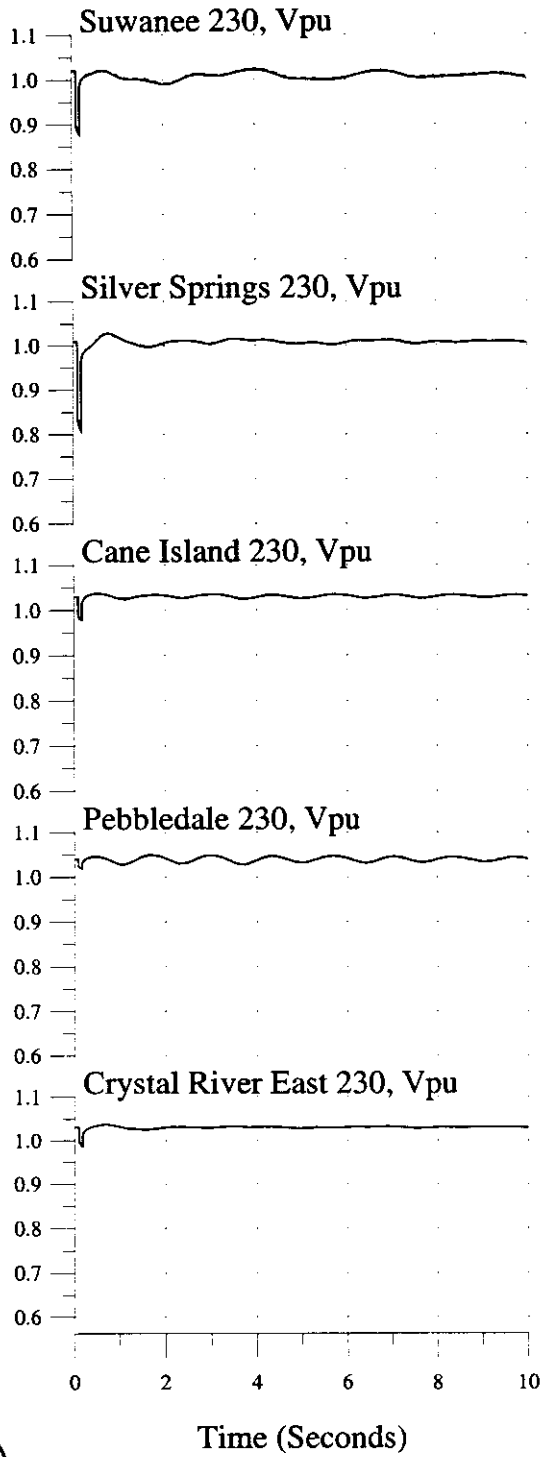
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without

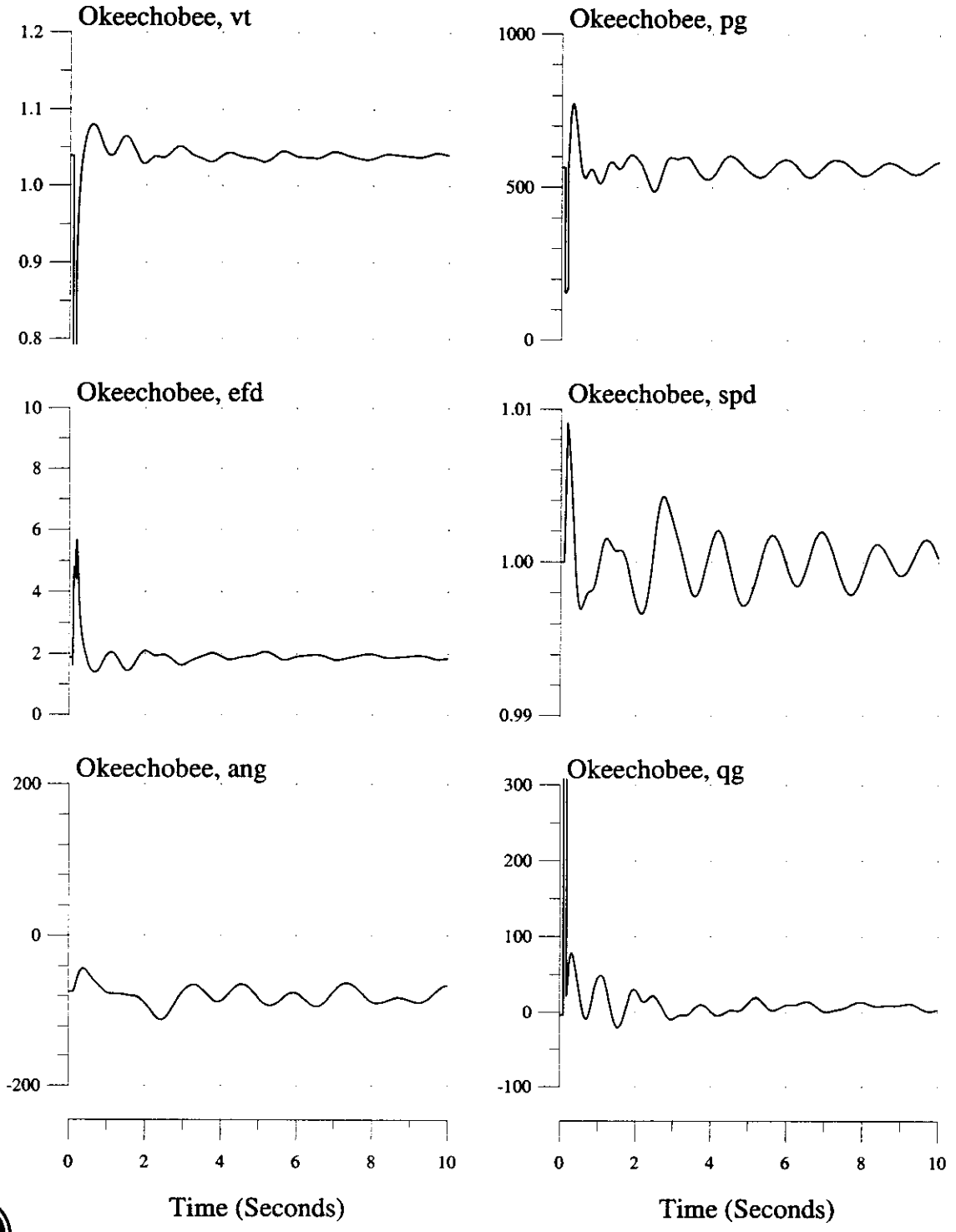


3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without

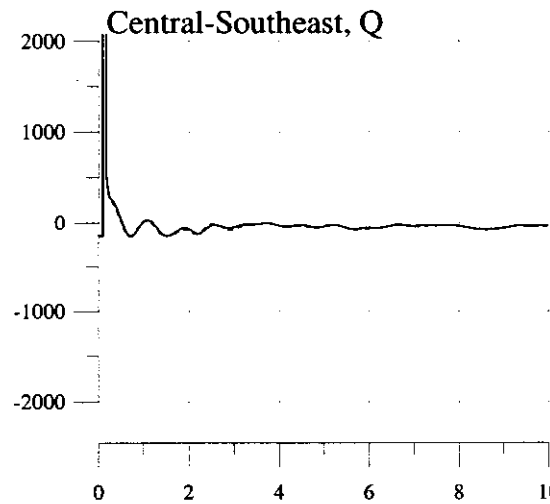
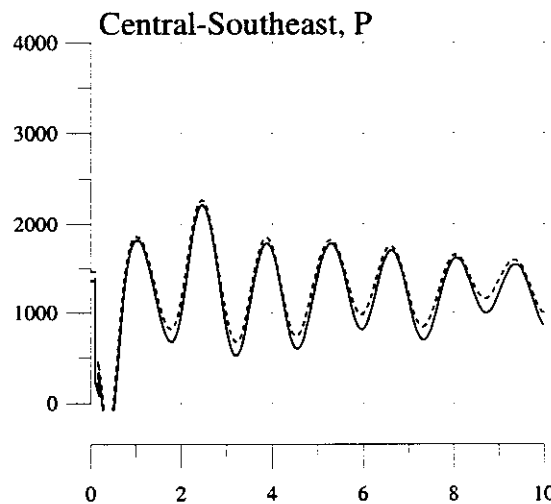
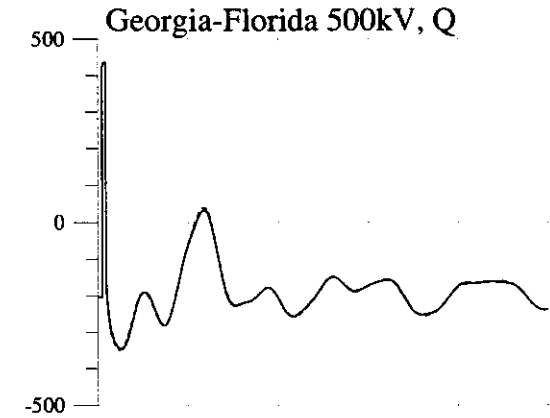
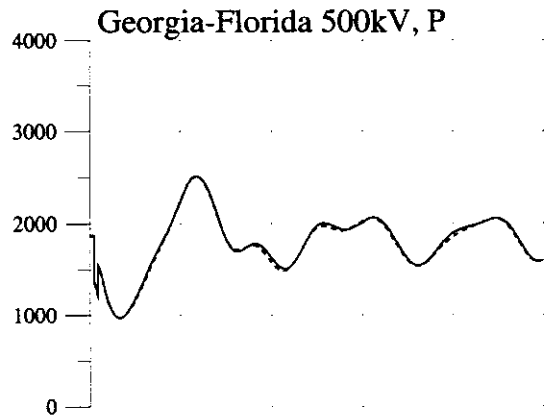
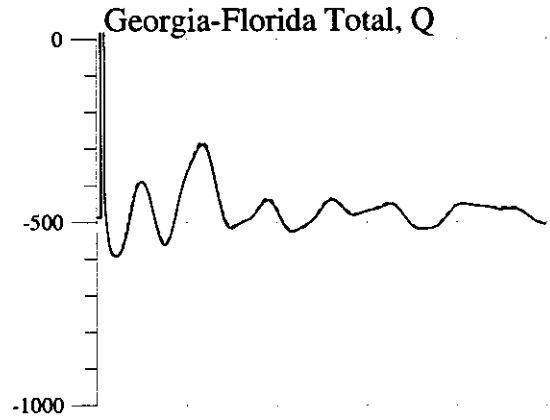
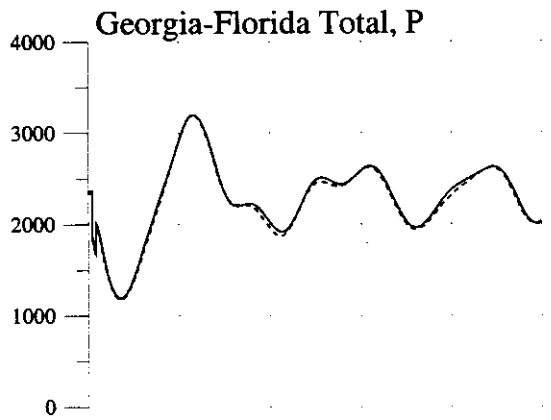


3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System  
 Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



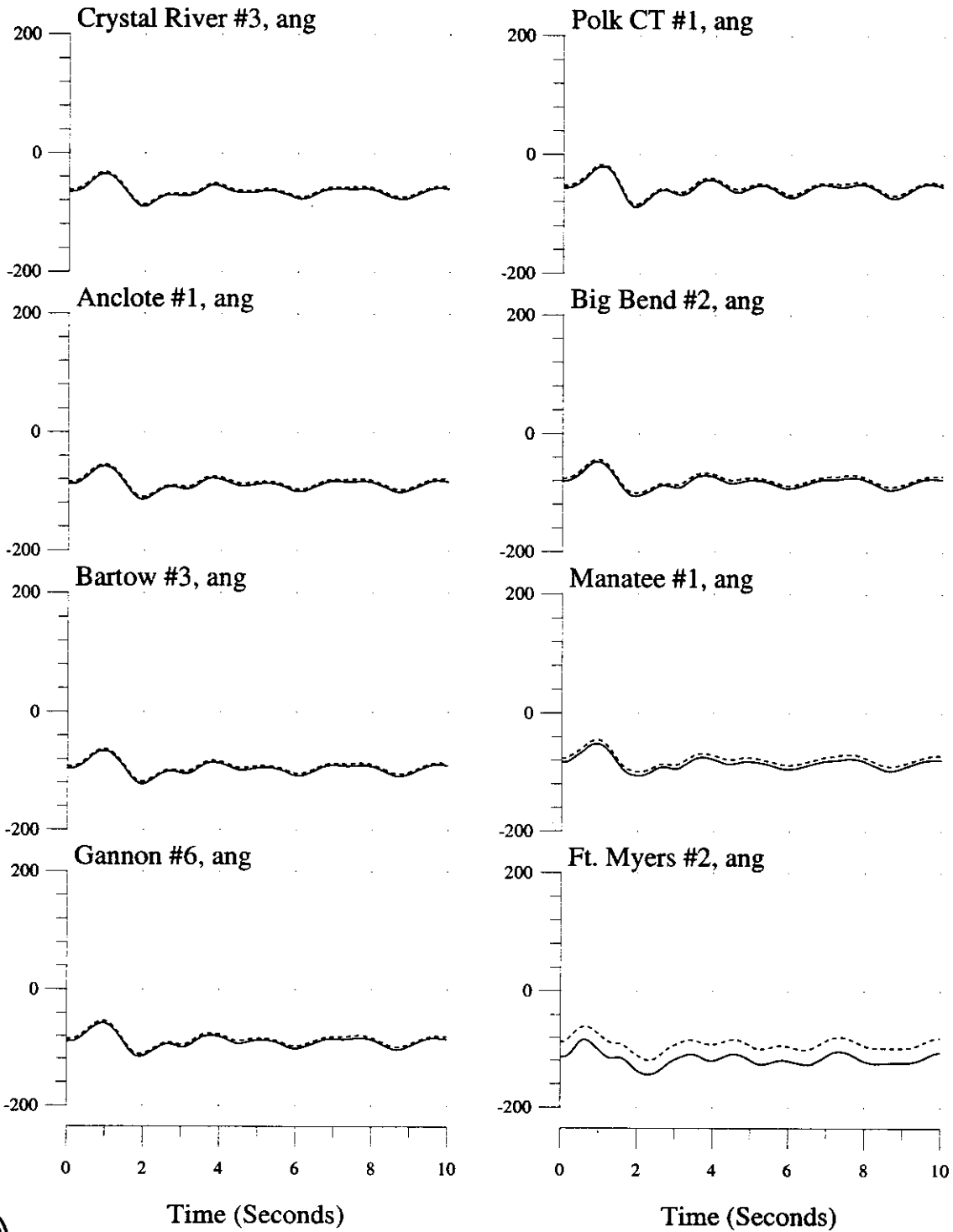
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

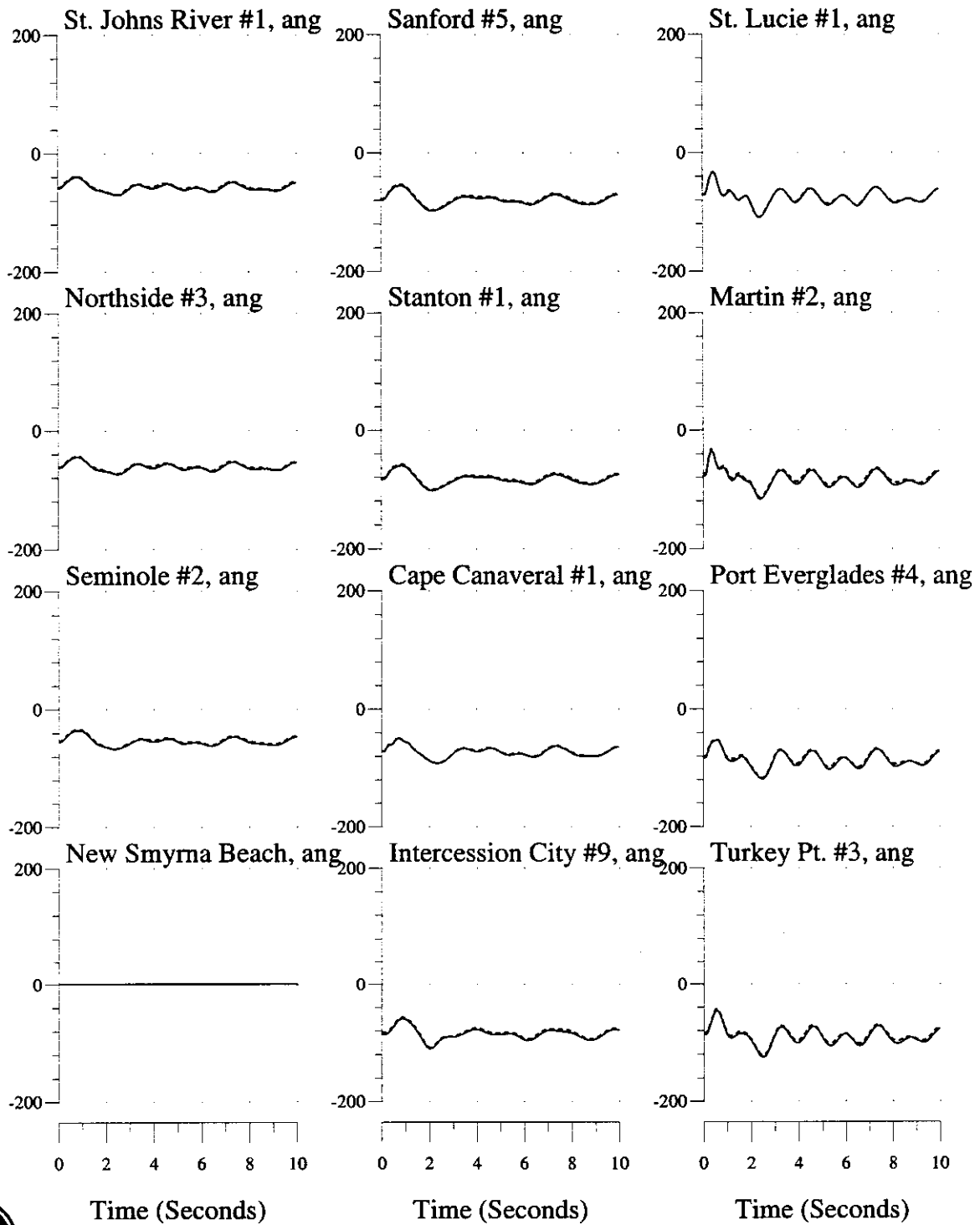
Machine Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without





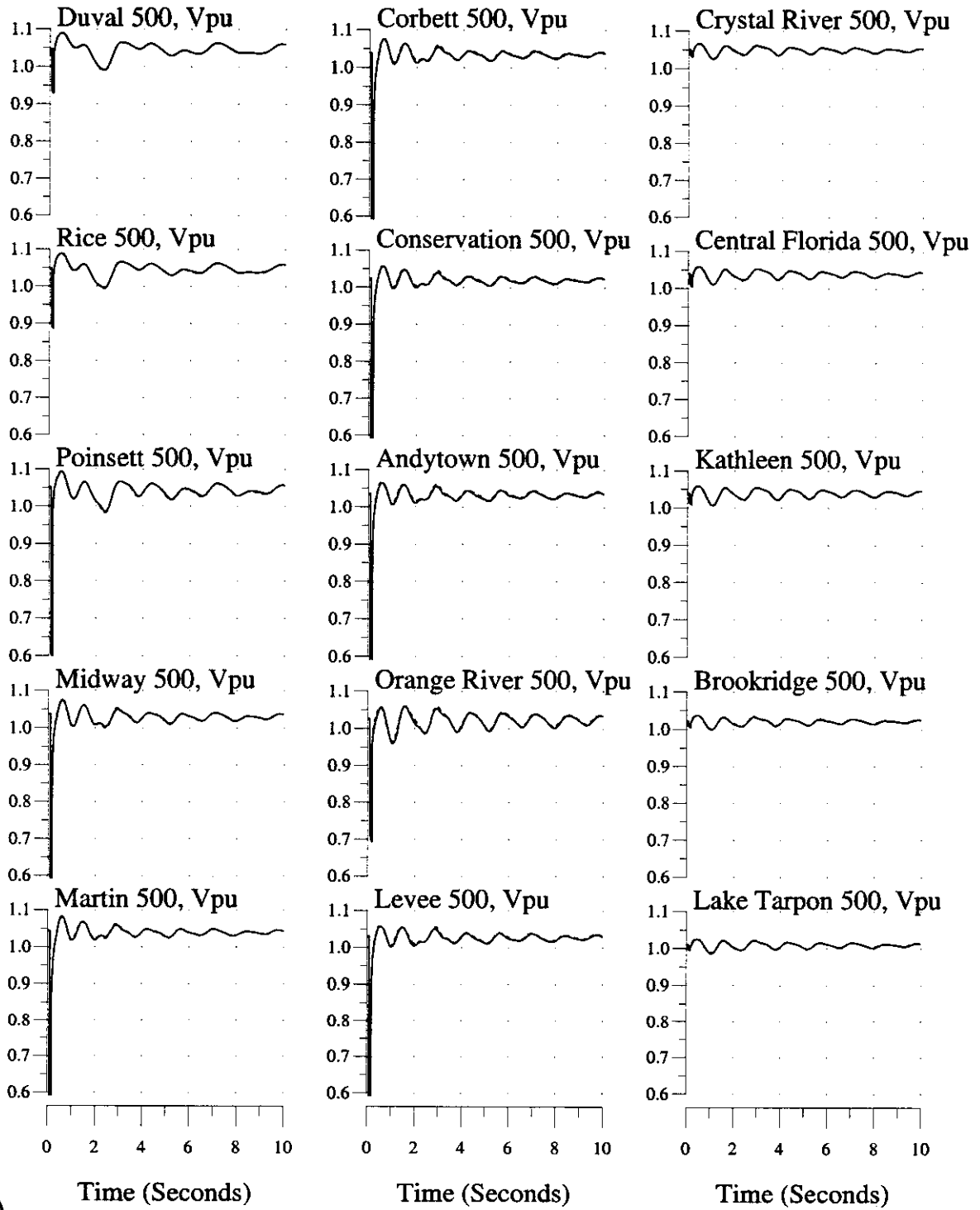
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



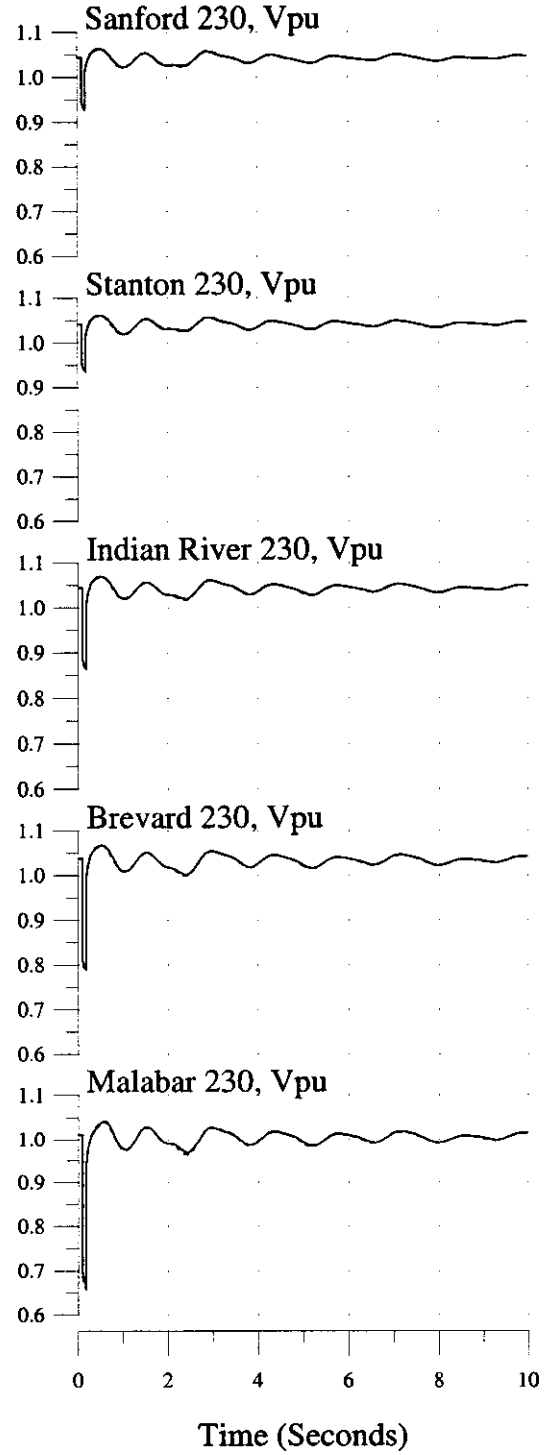
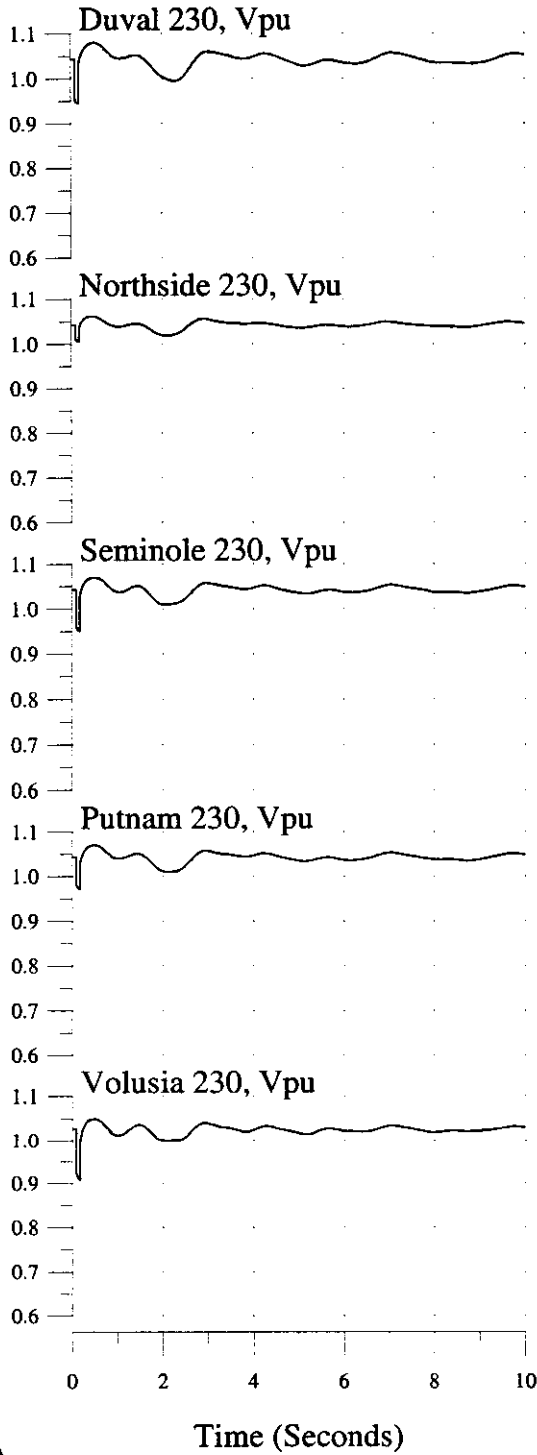
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



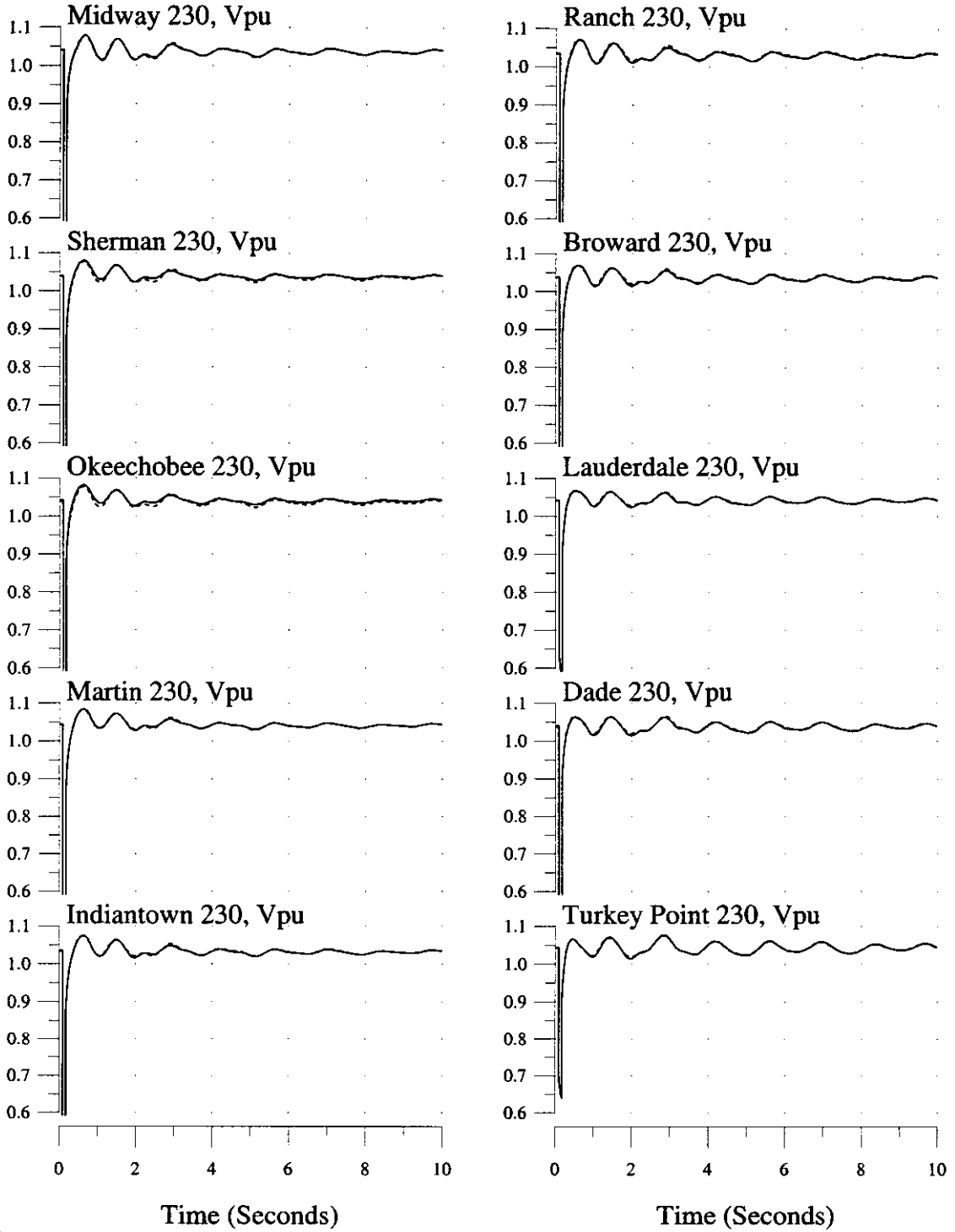
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



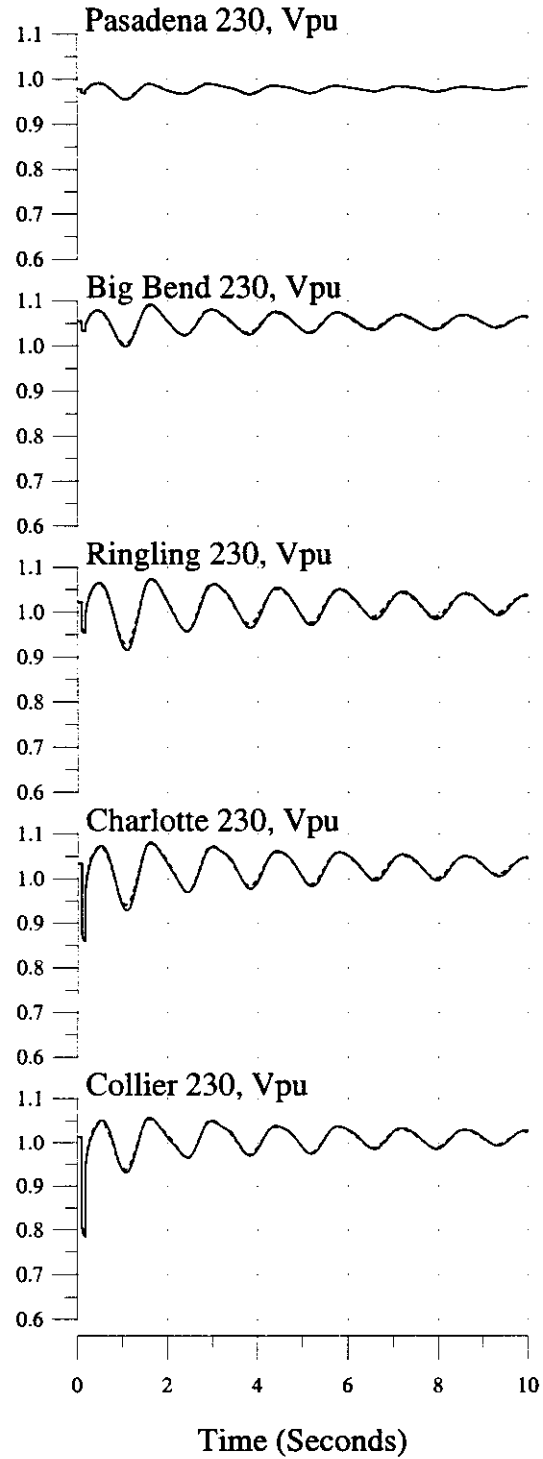
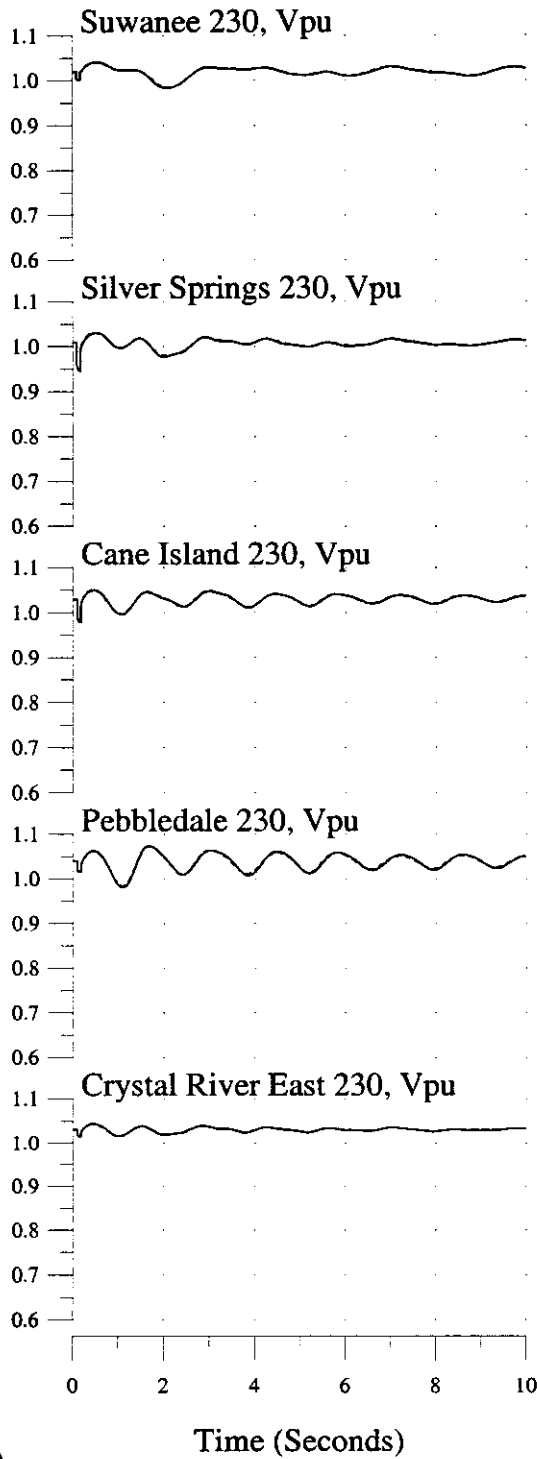
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



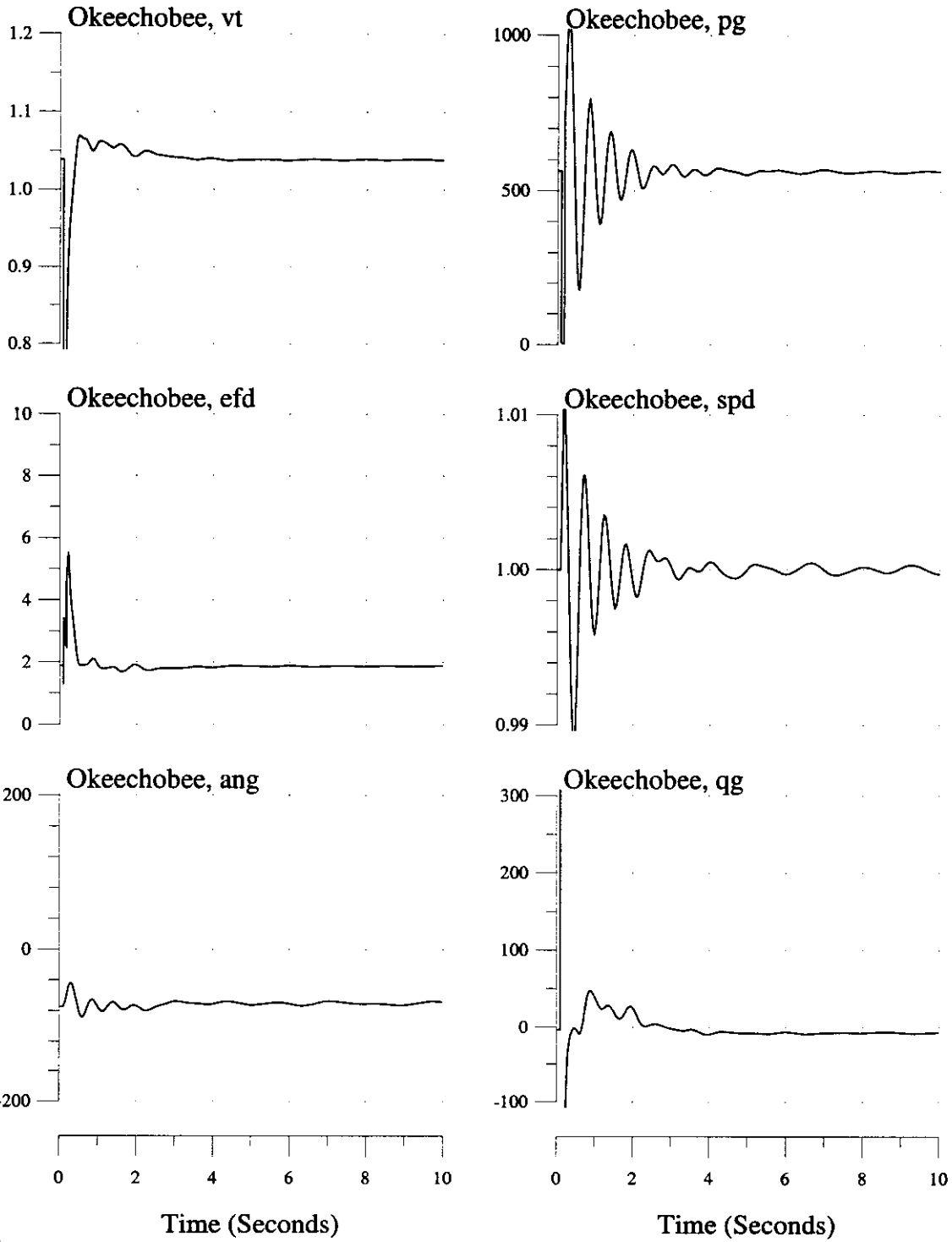
### 3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



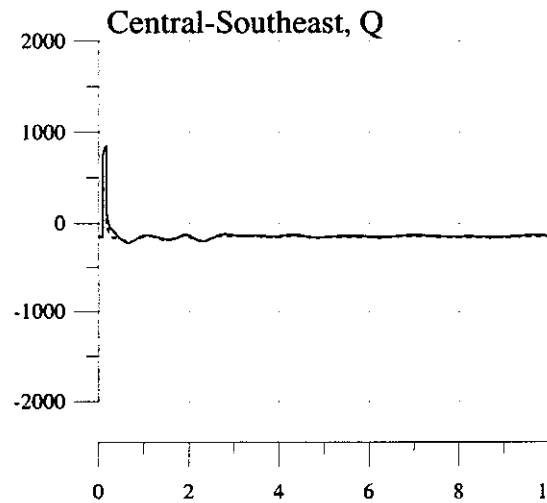
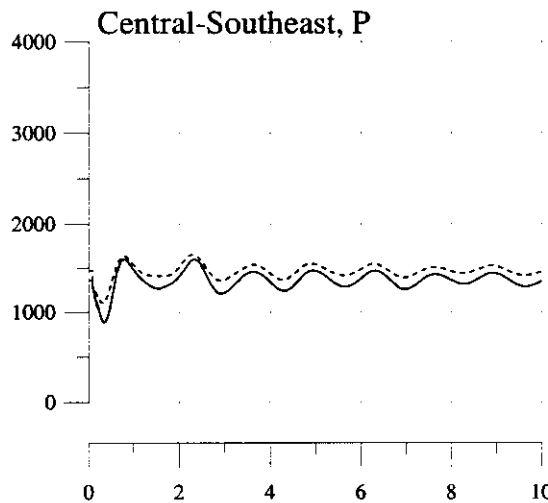
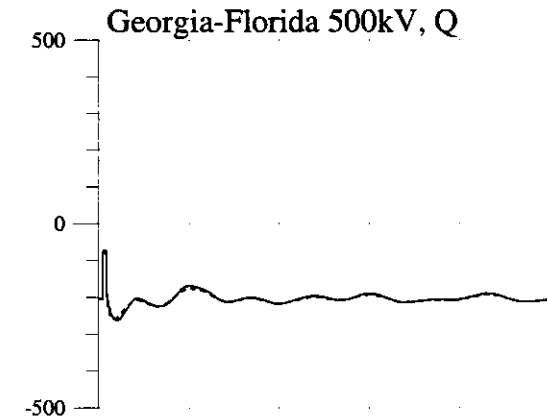
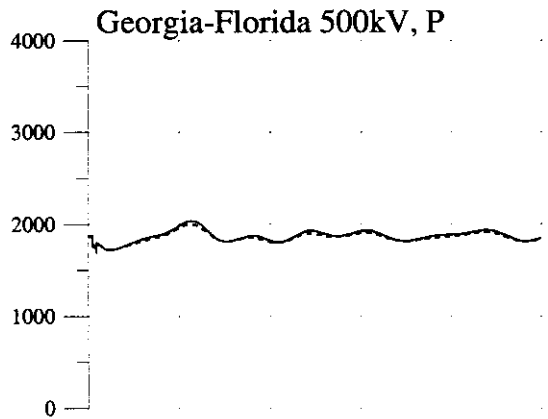
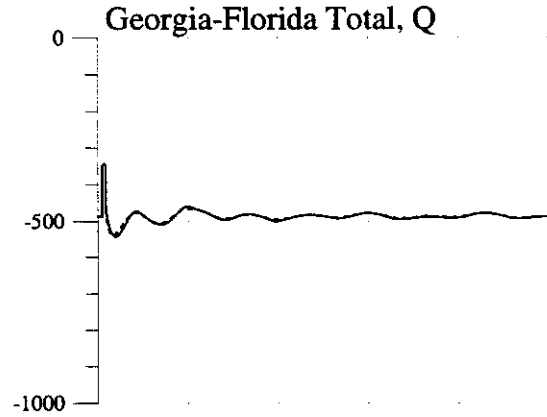
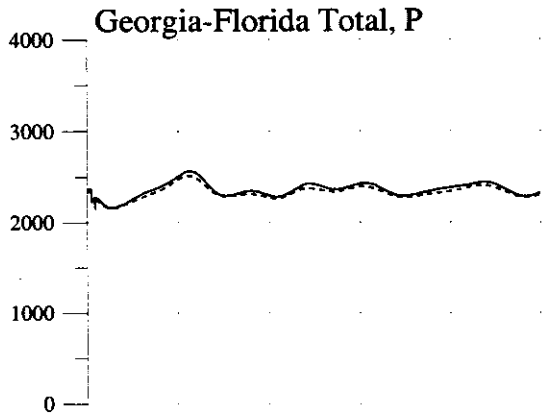
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



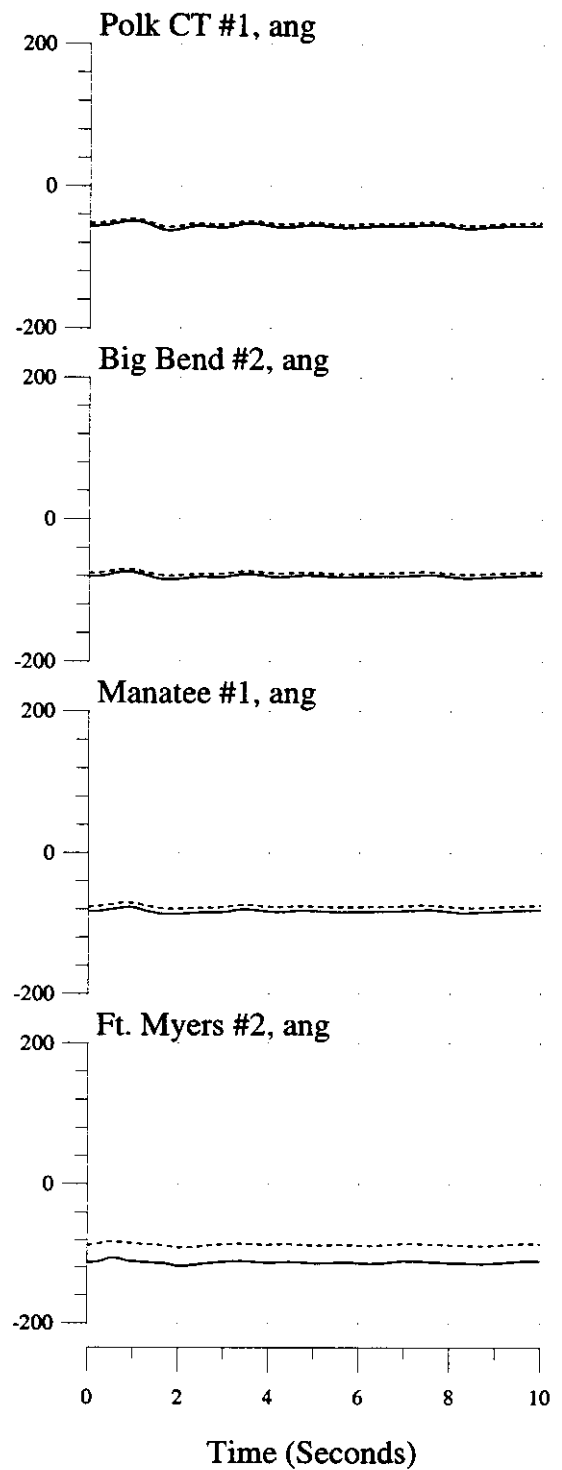
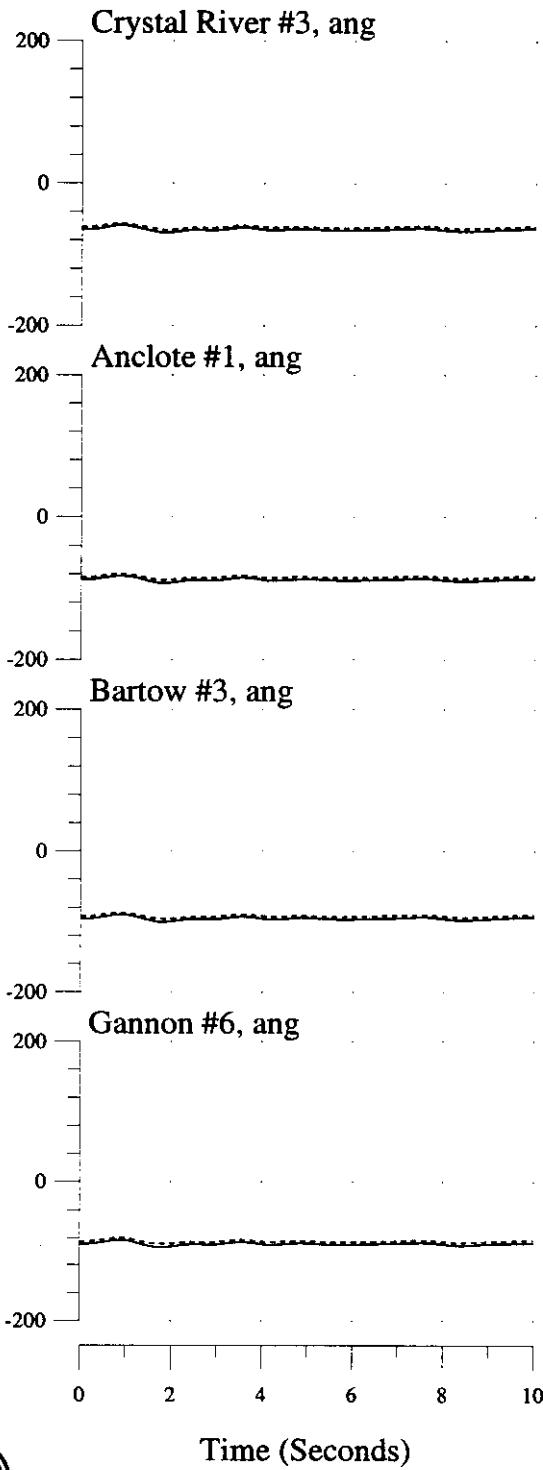
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

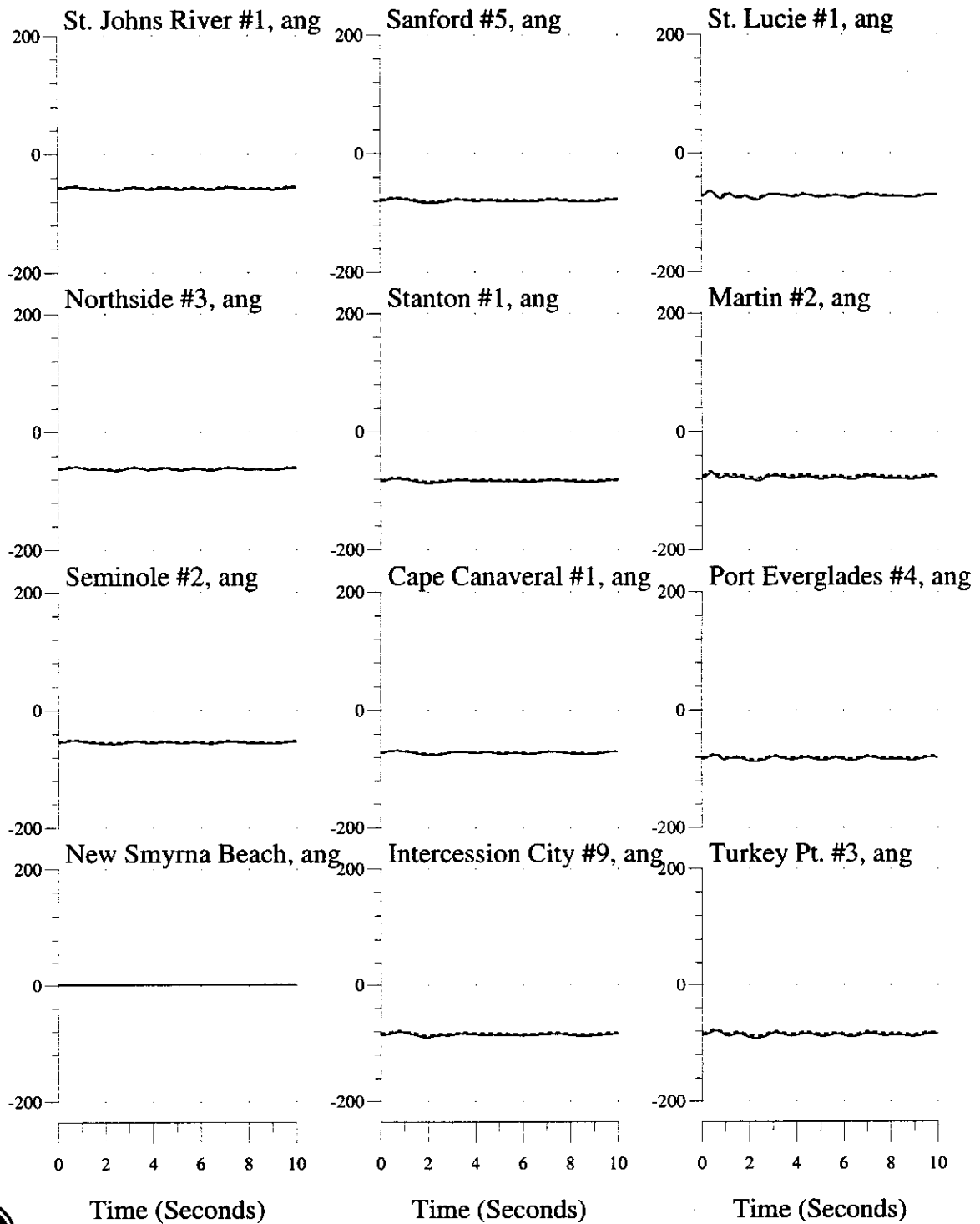
Machine Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without





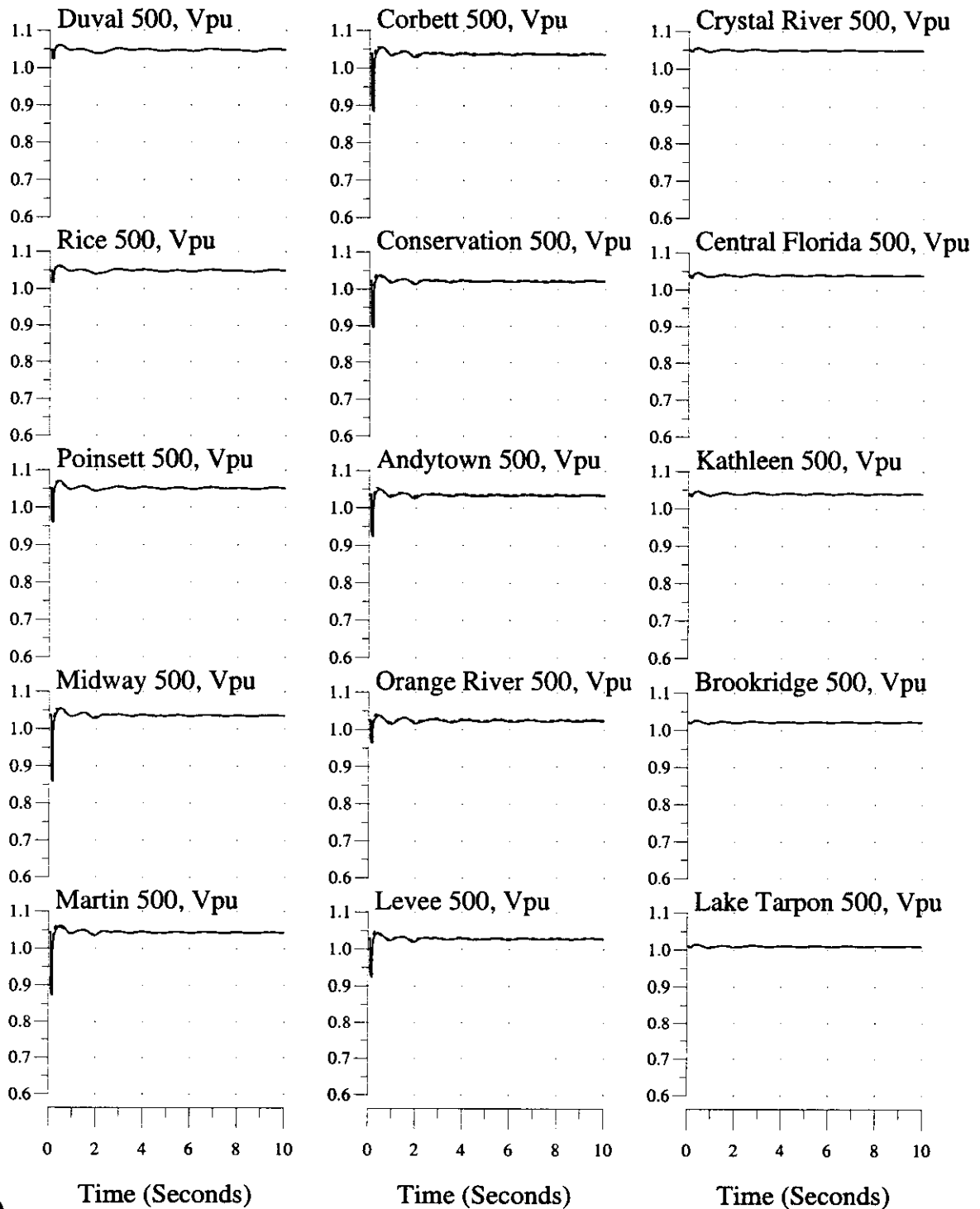
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



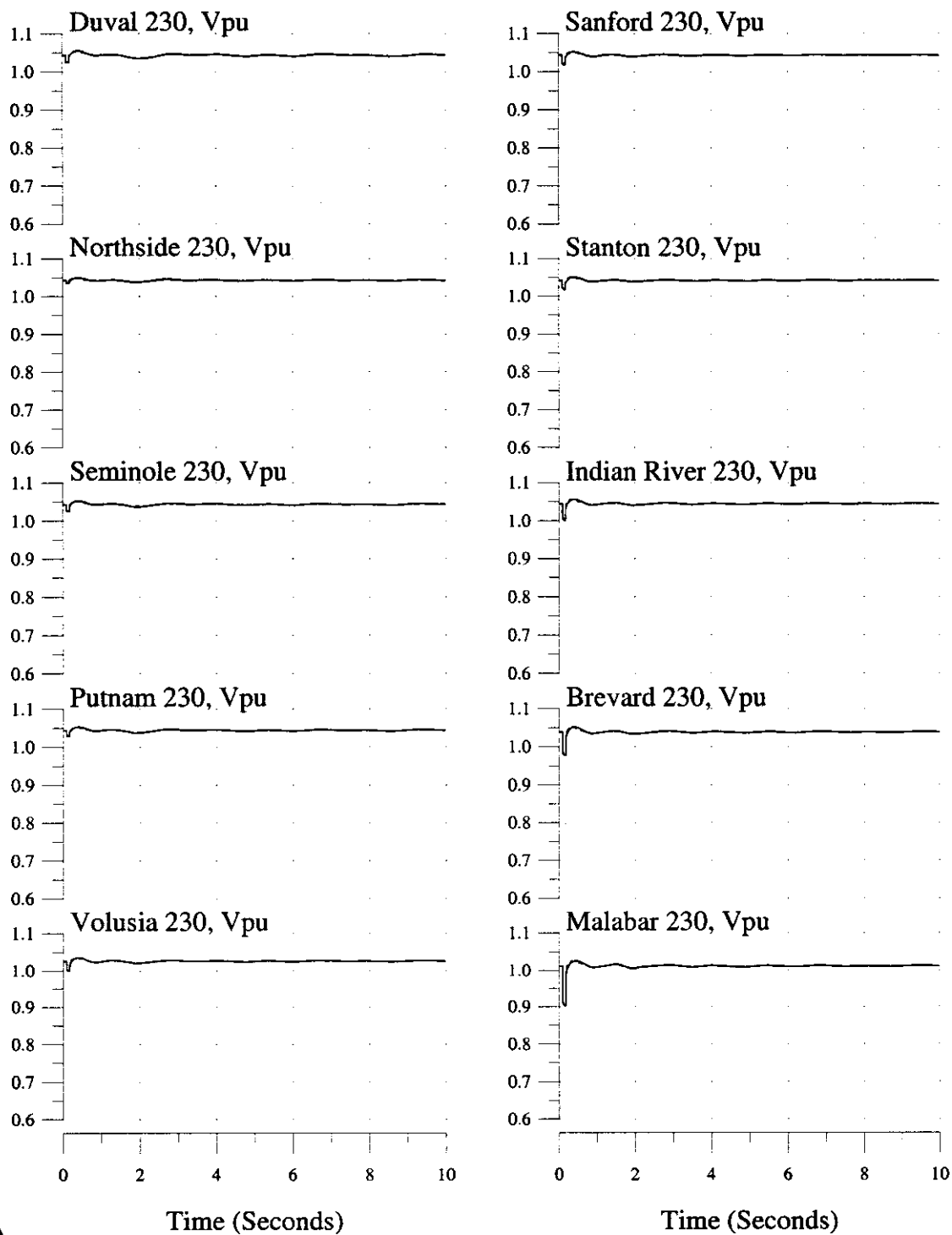
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



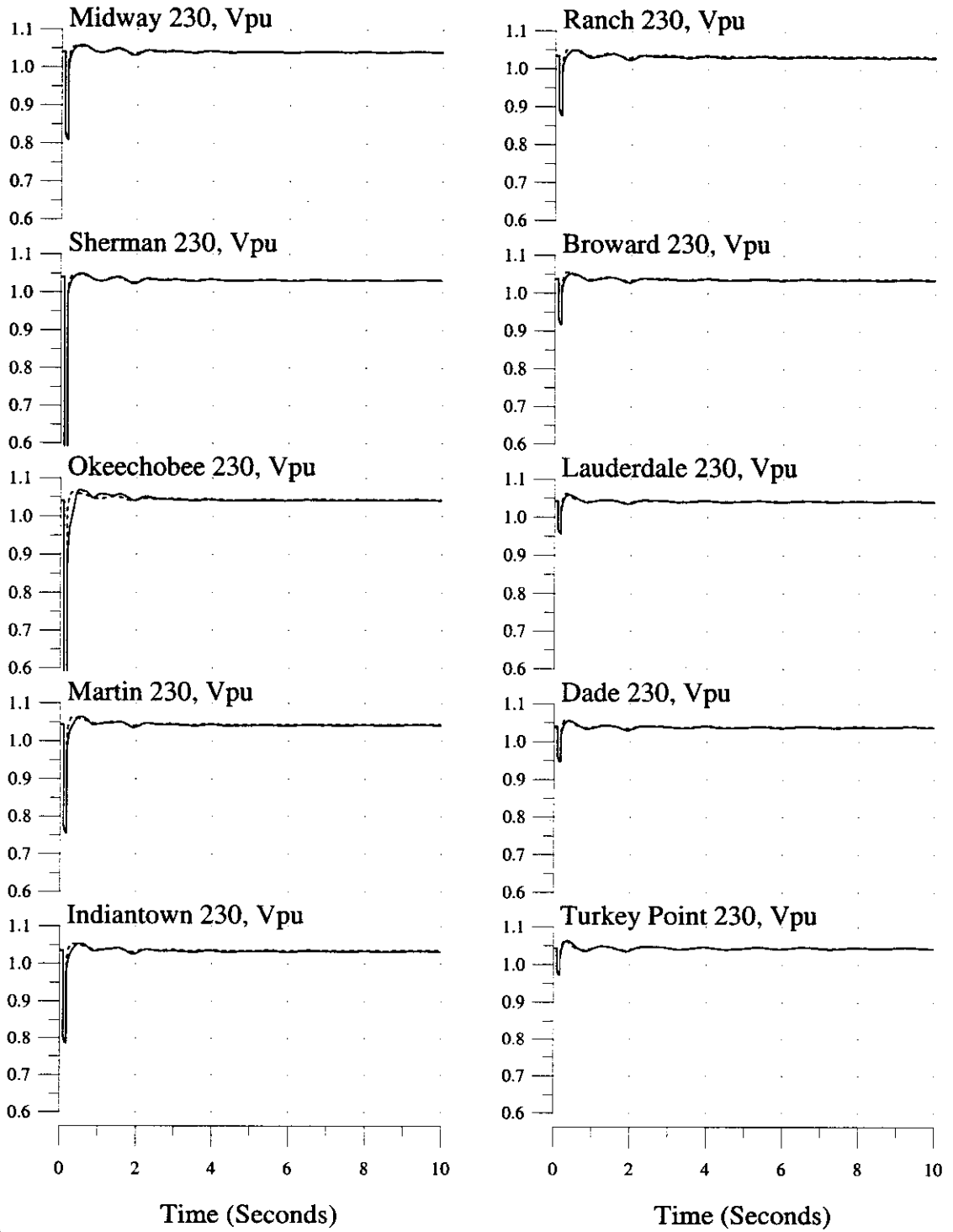
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



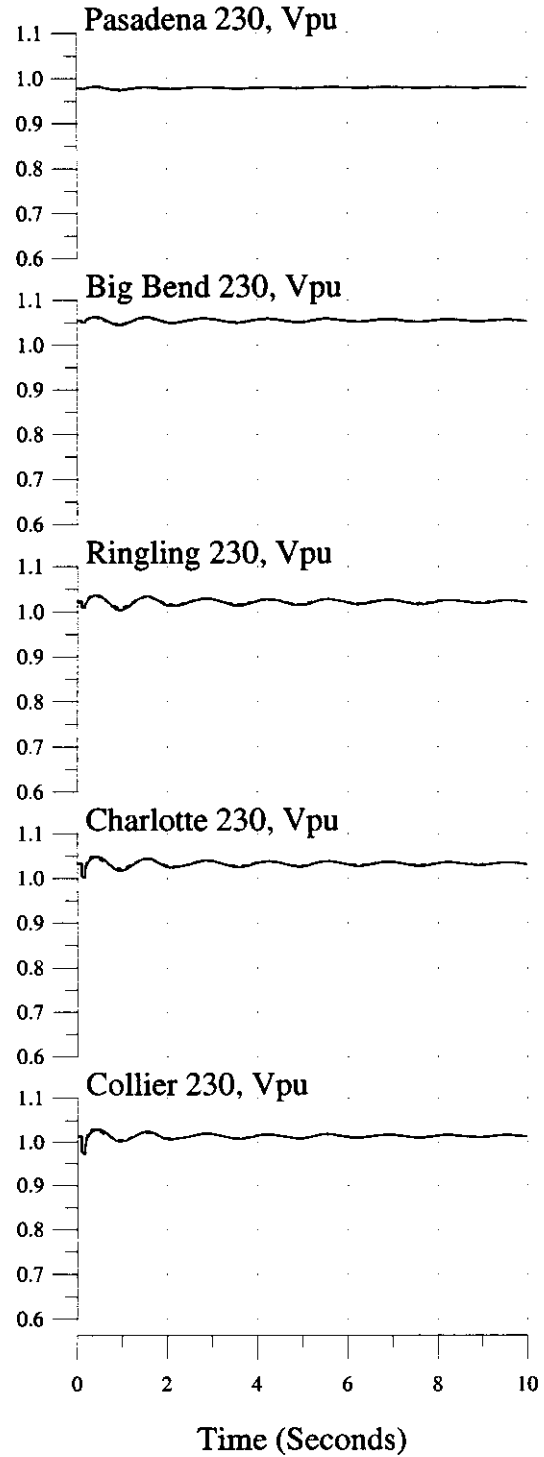
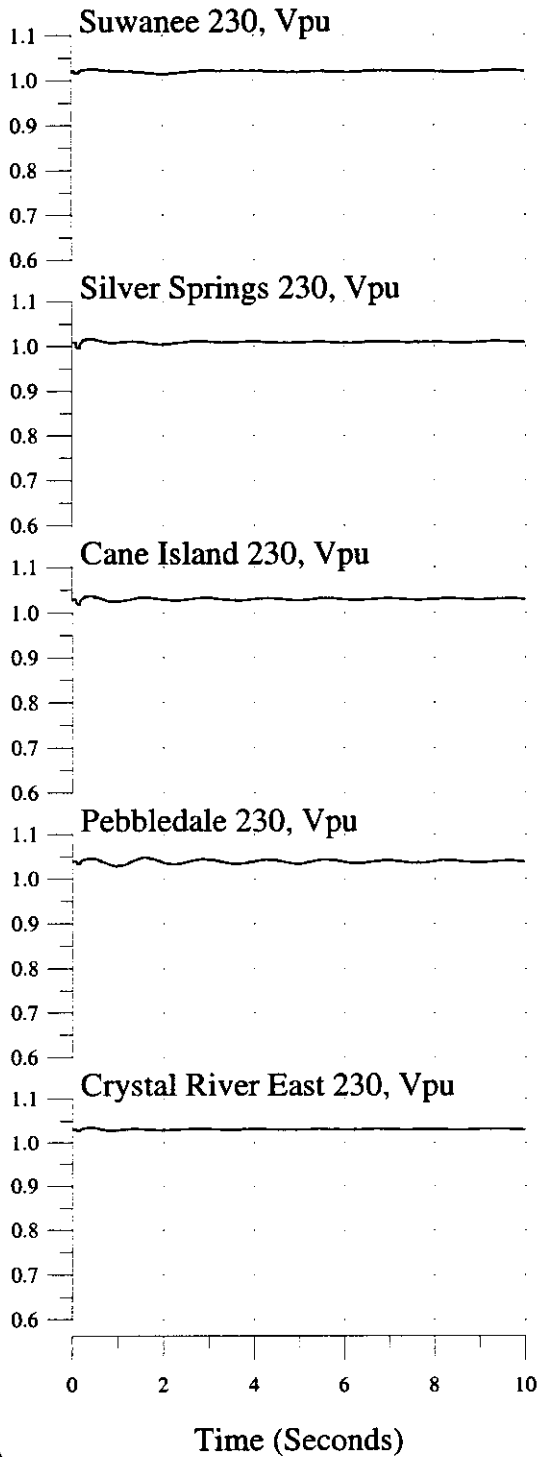
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



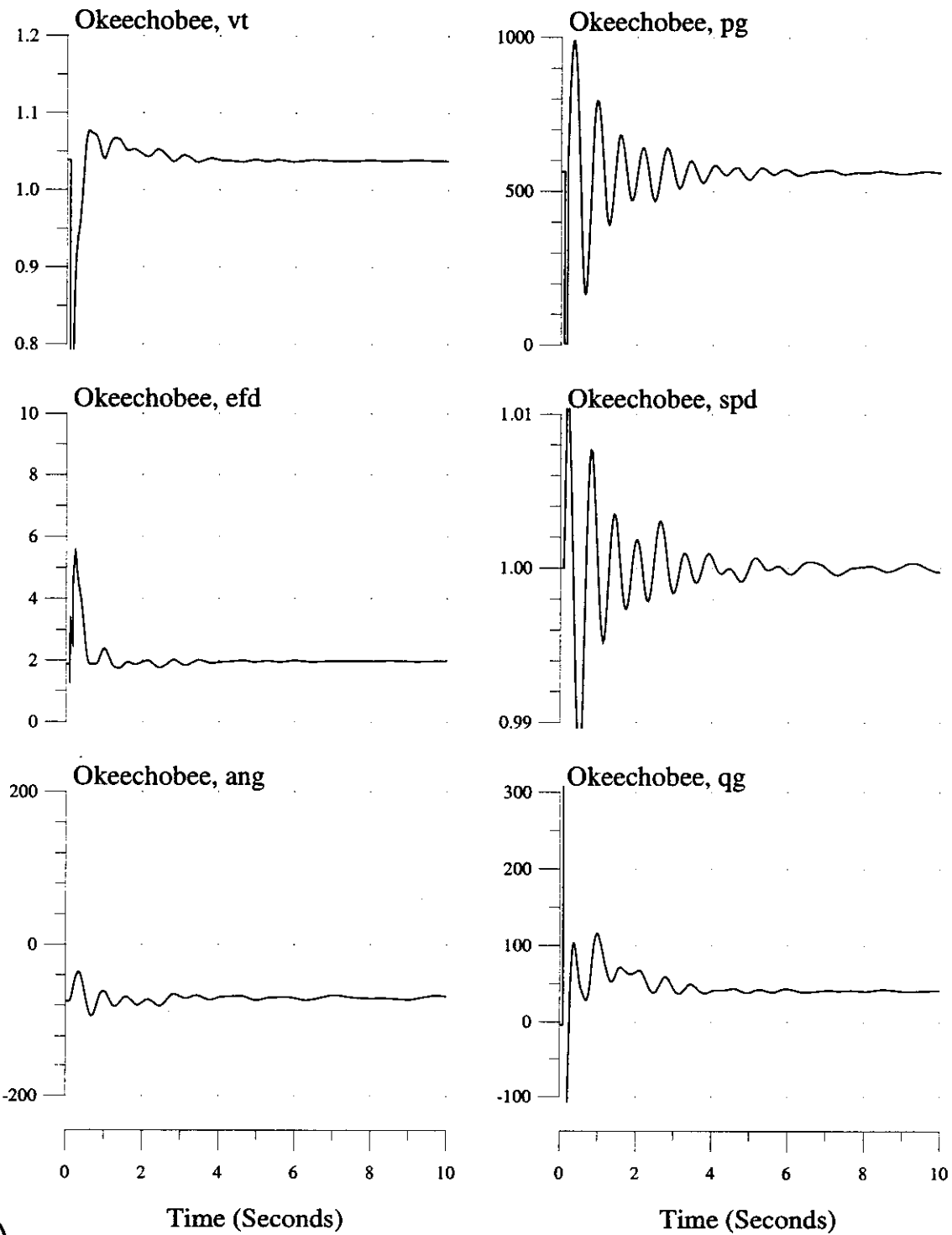
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



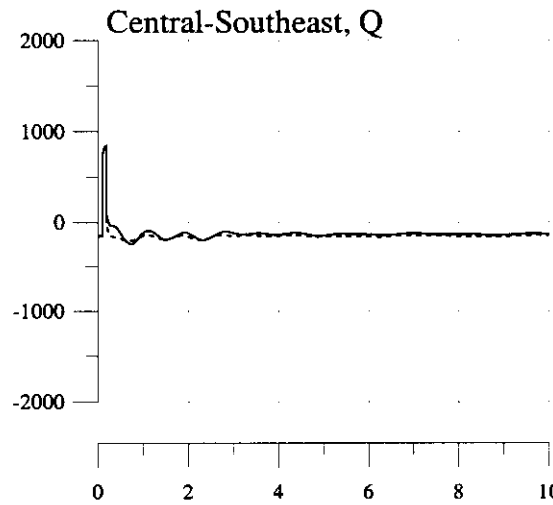
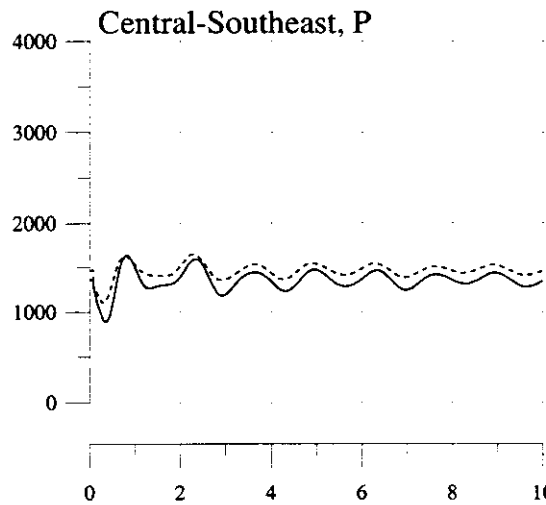
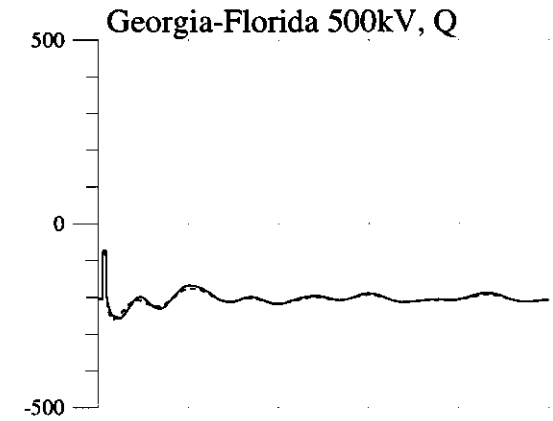
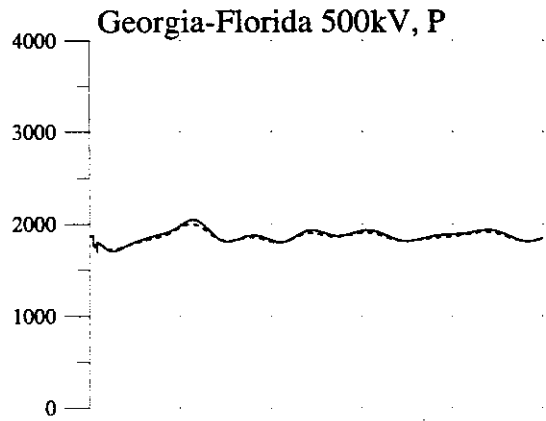
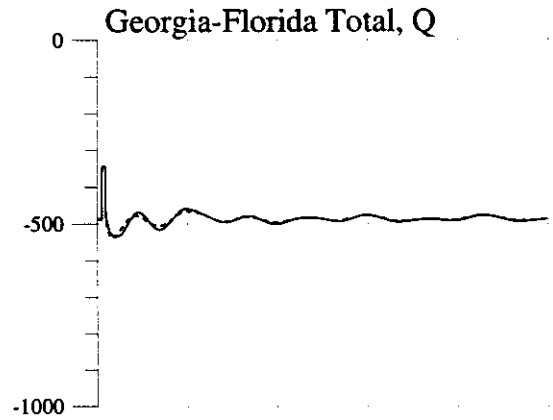
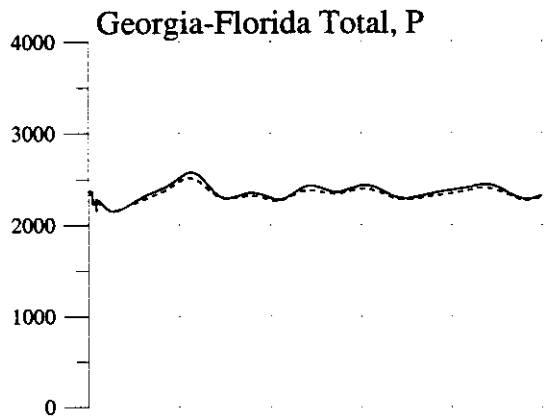
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



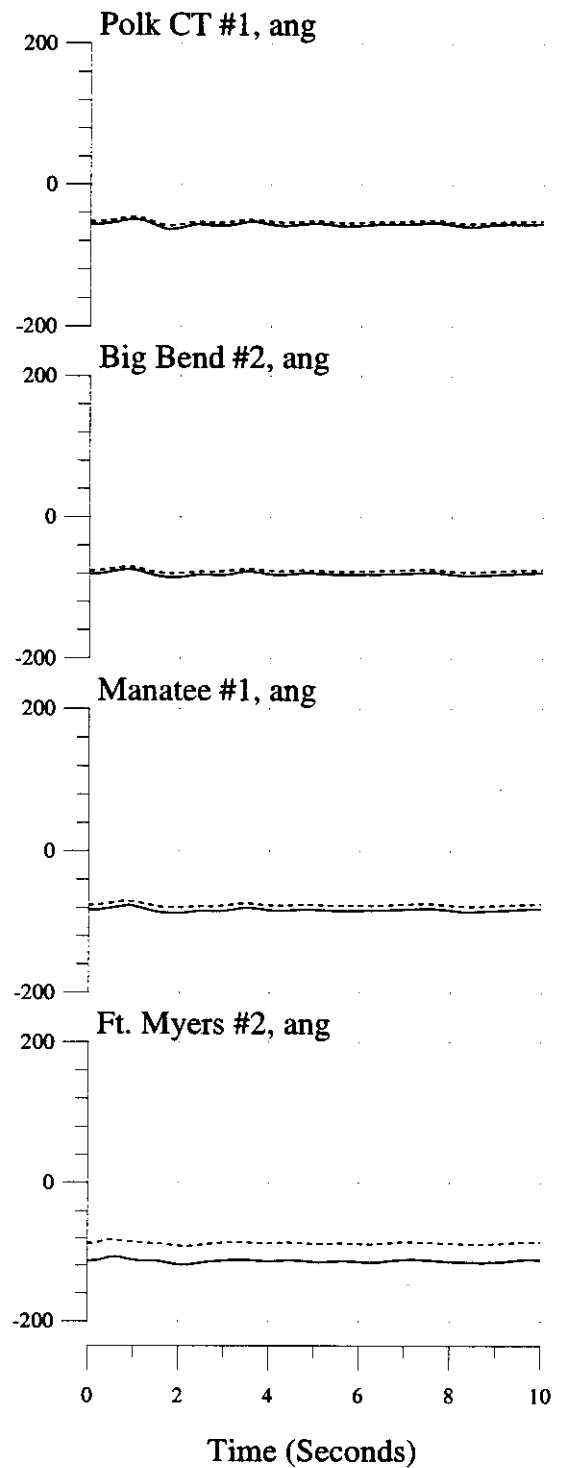
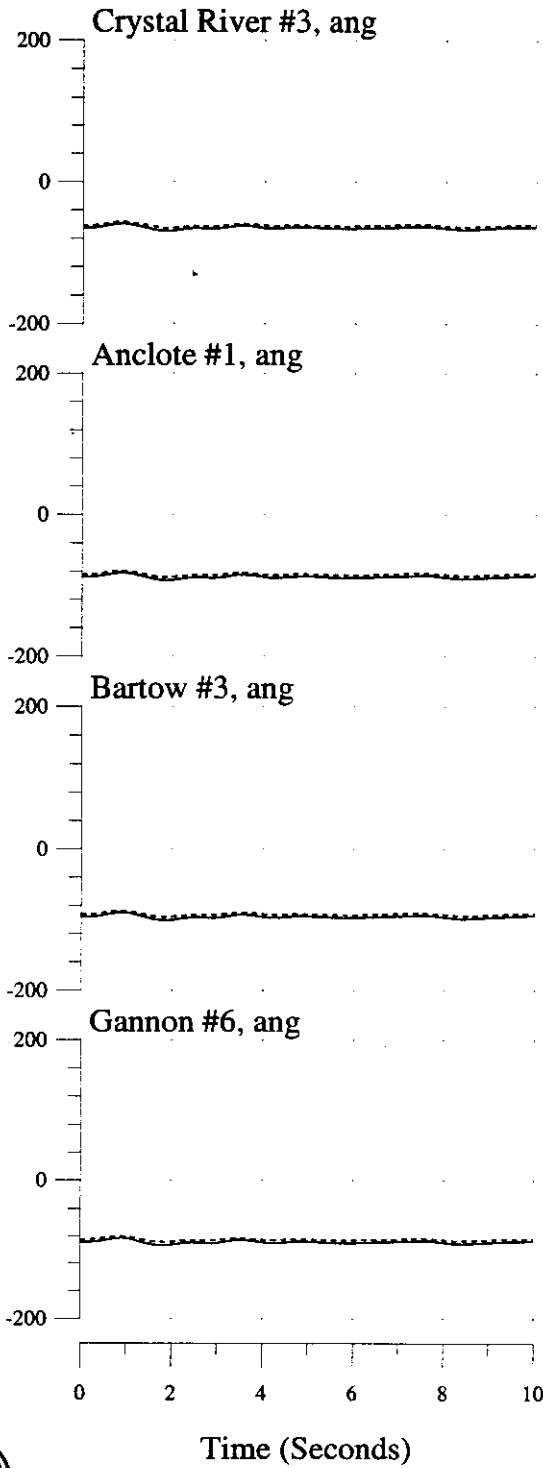
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

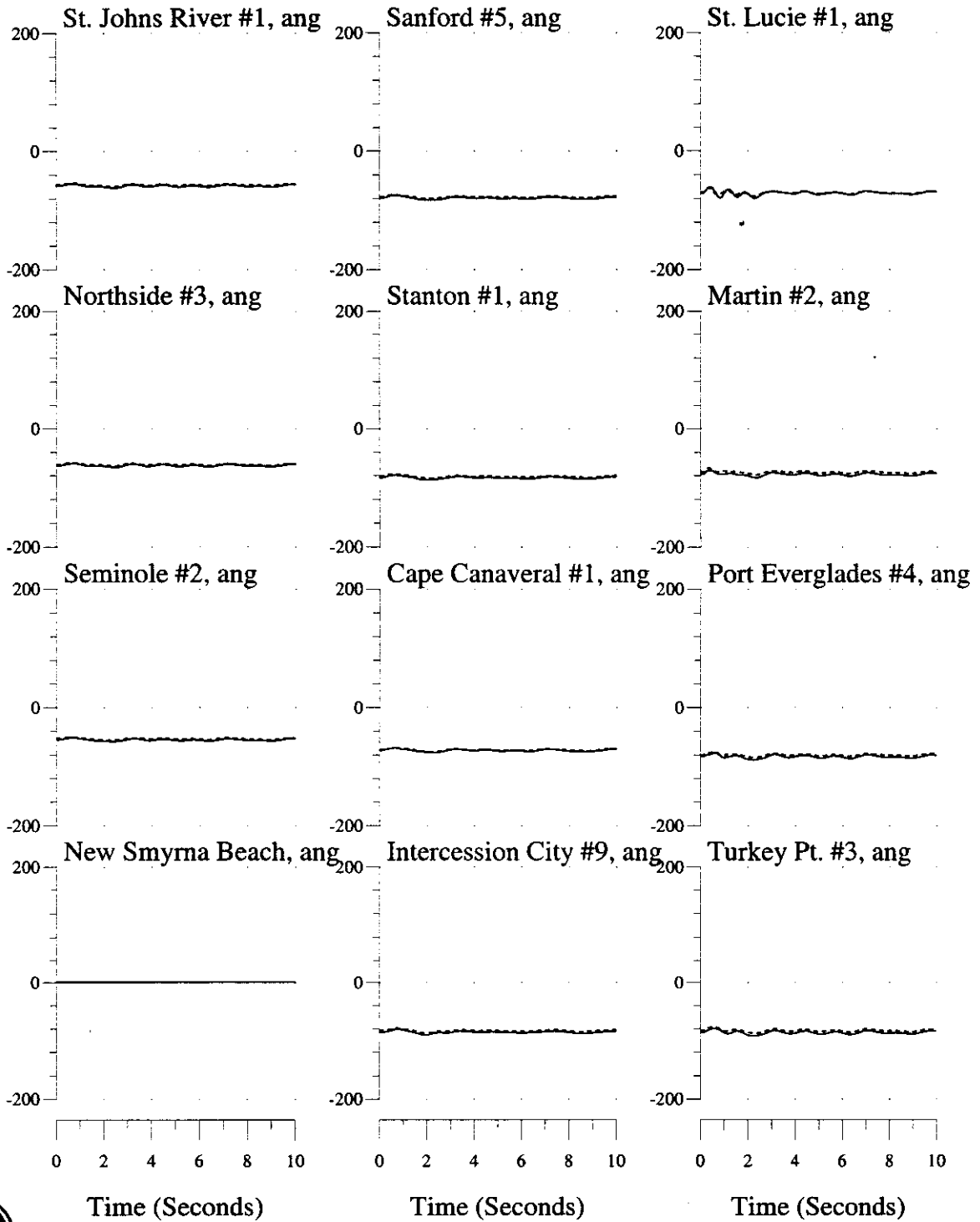
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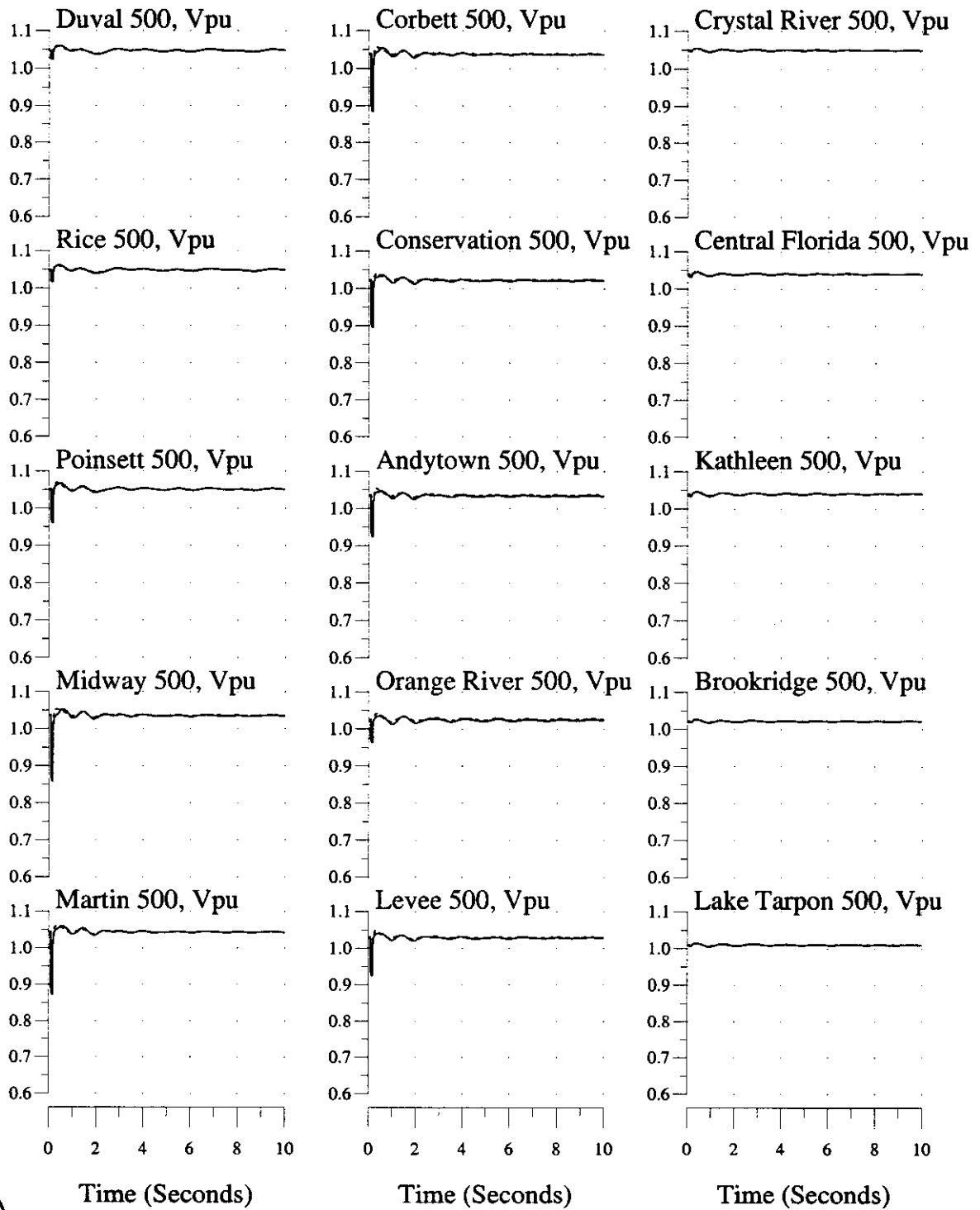
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



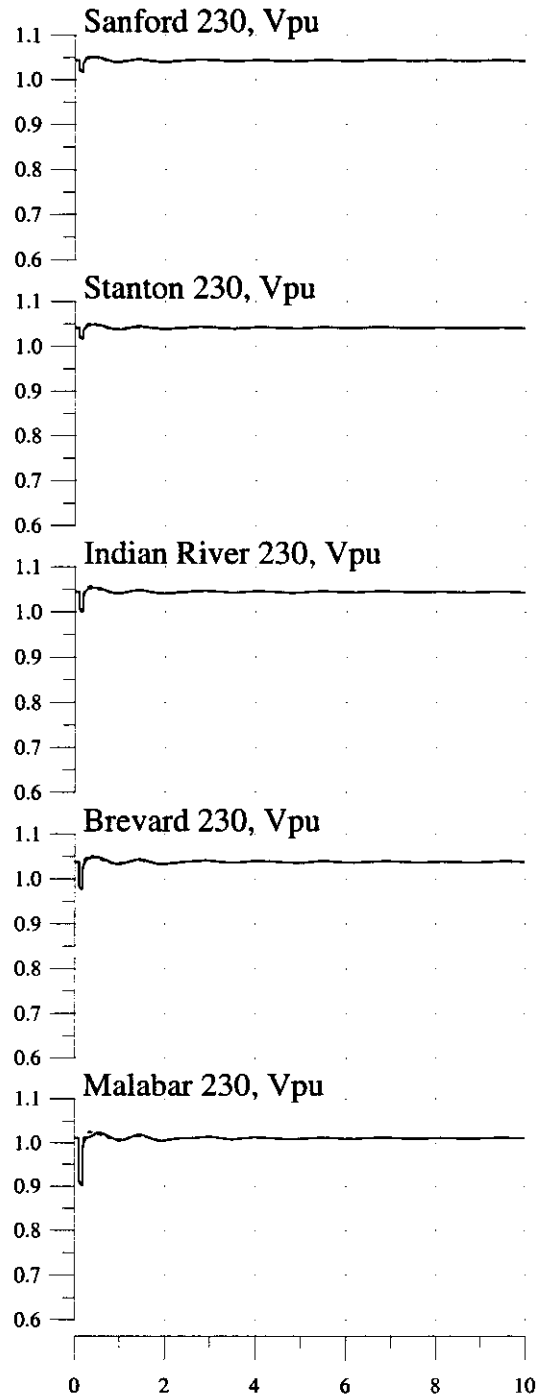
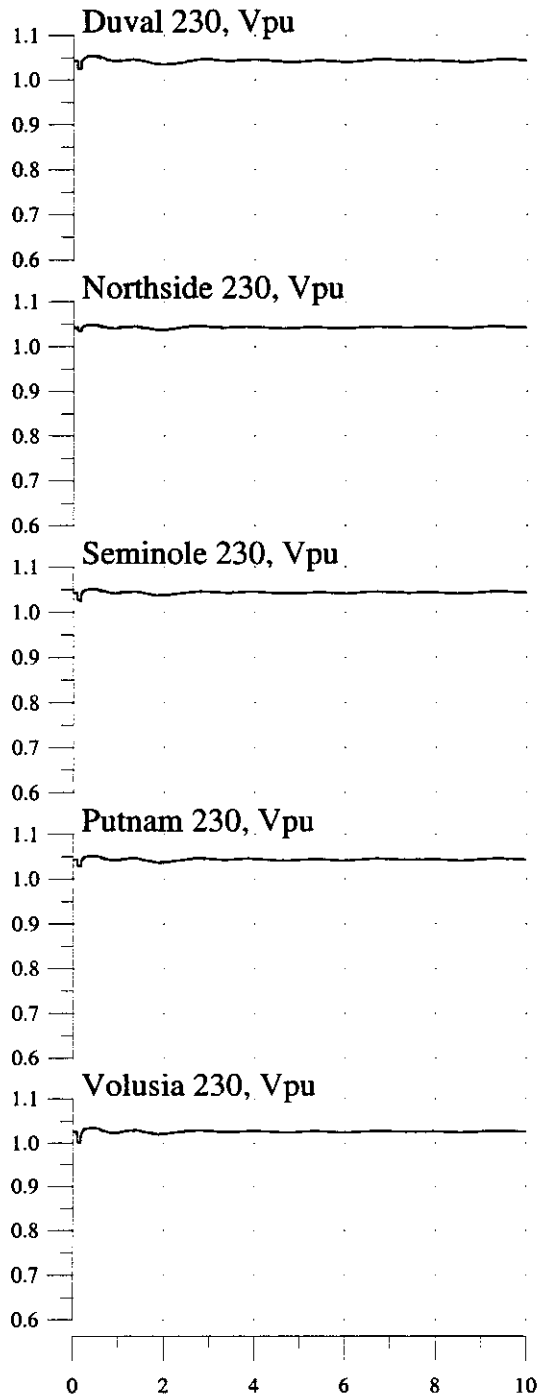
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without

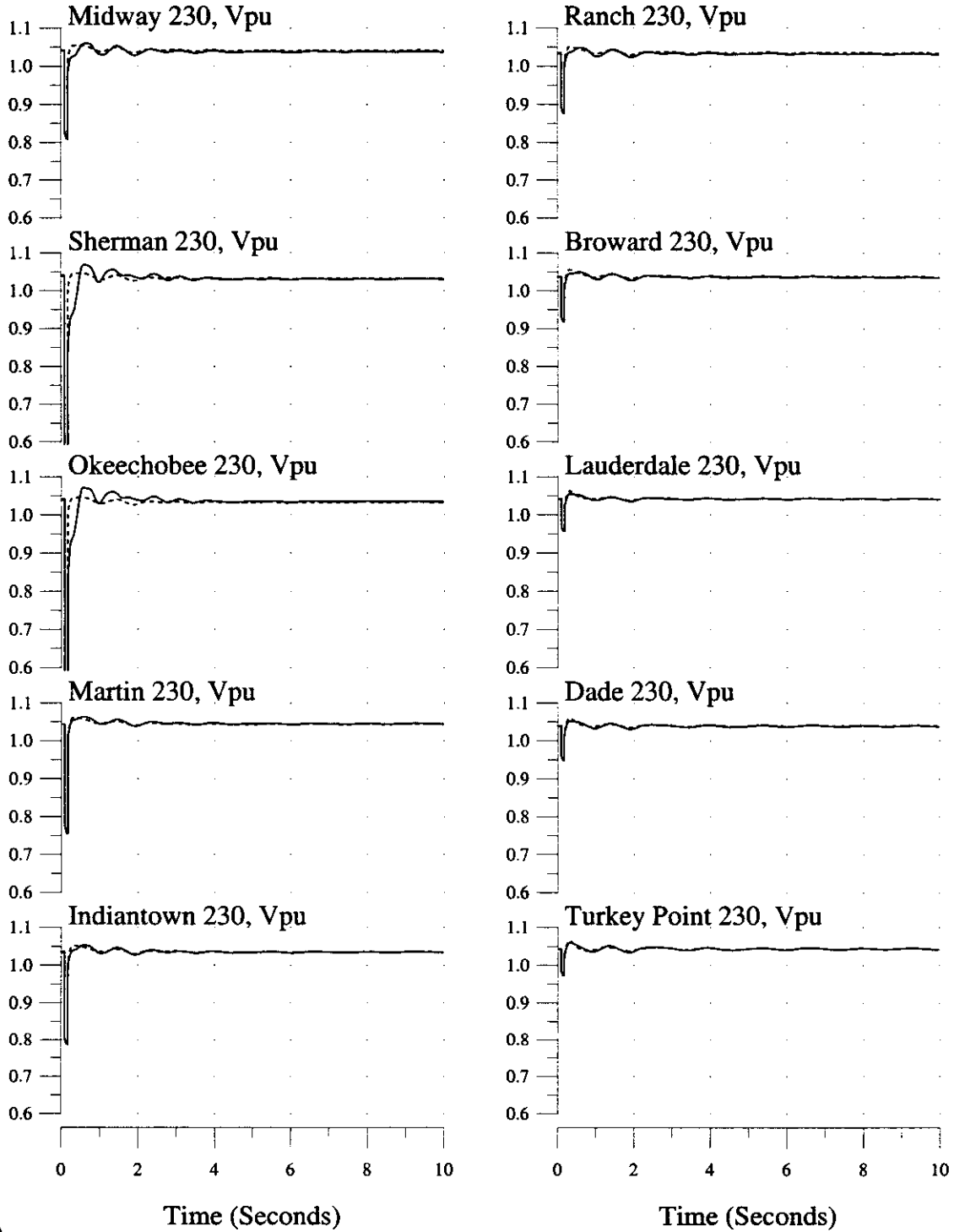


Time (Seconds)

Time (Seconds)

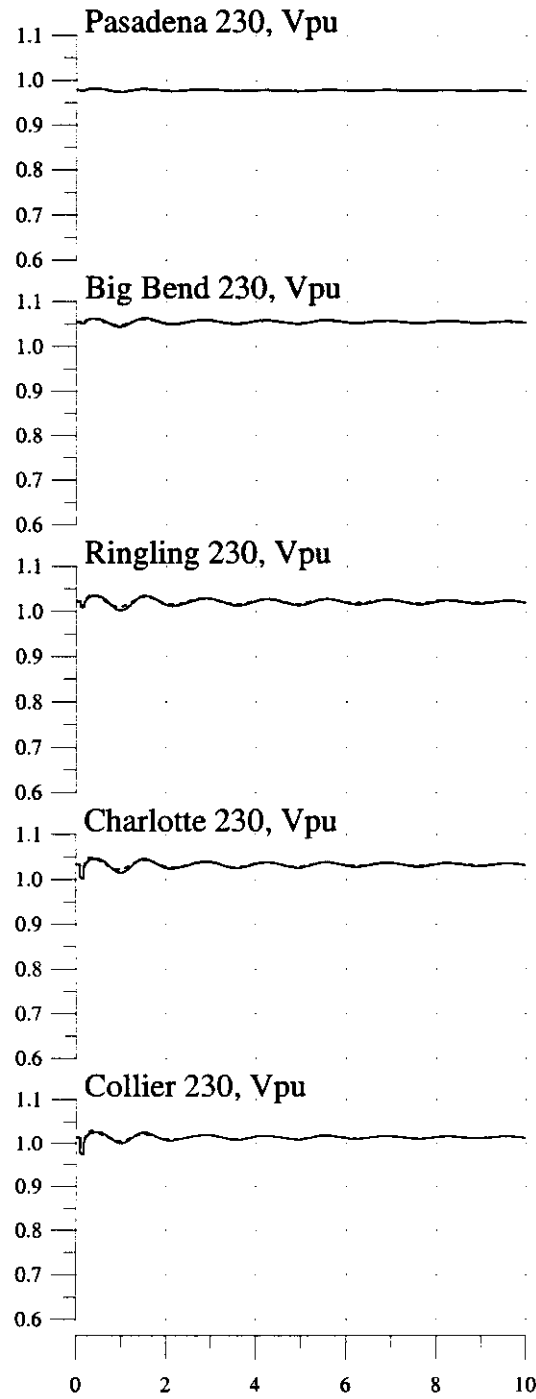
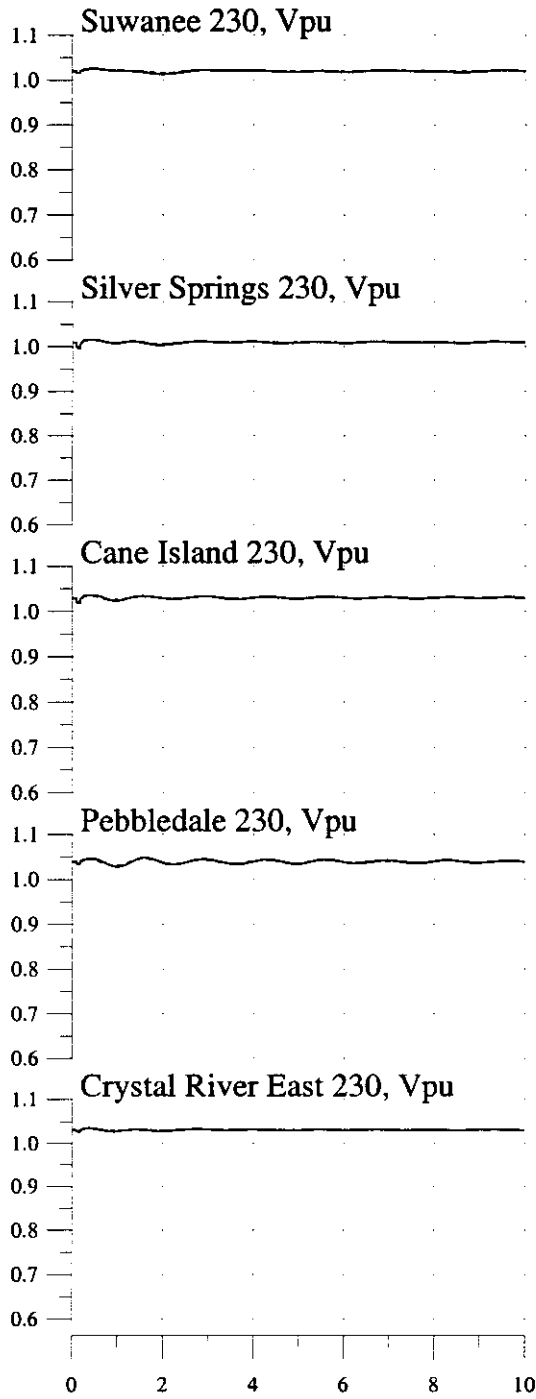
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



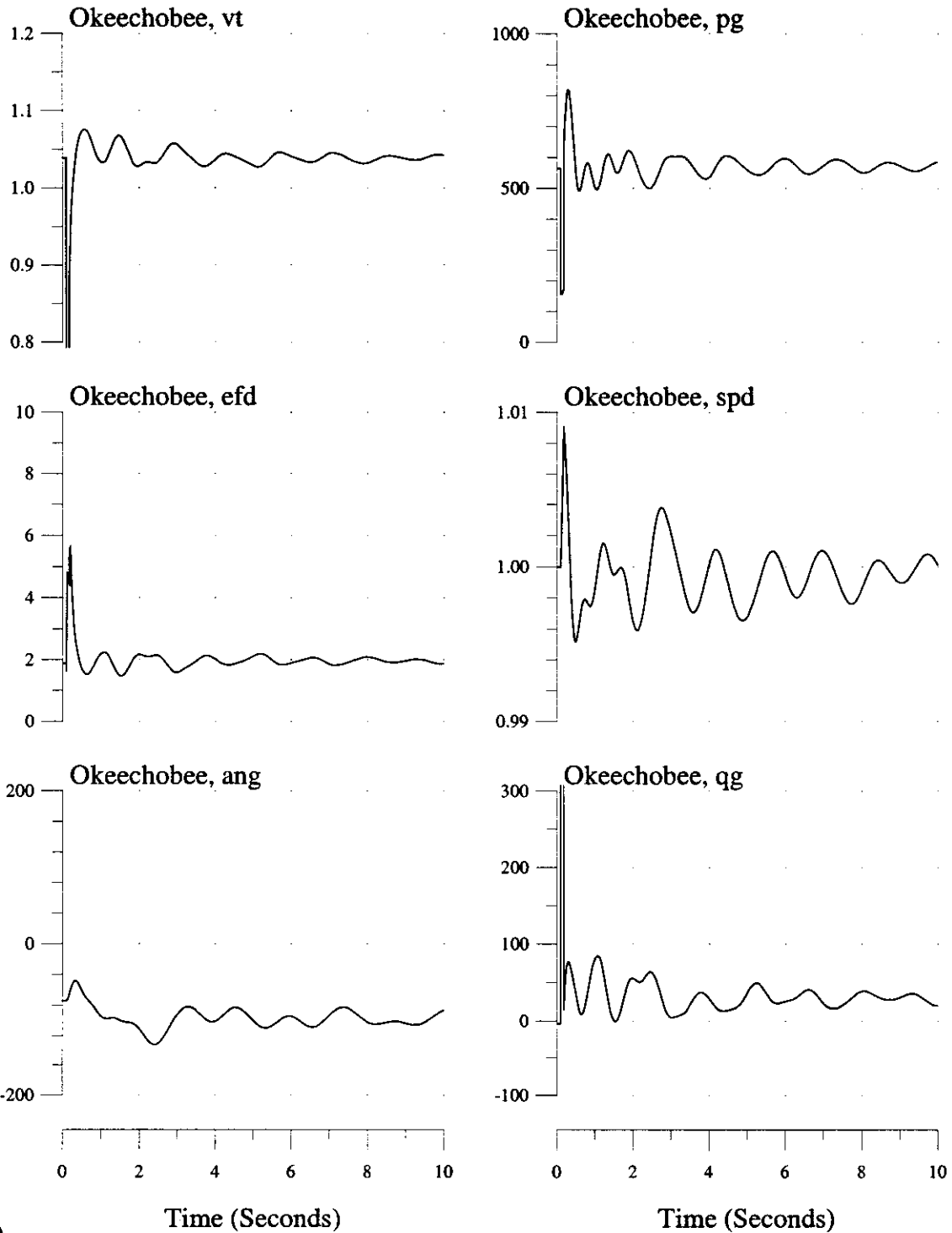
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



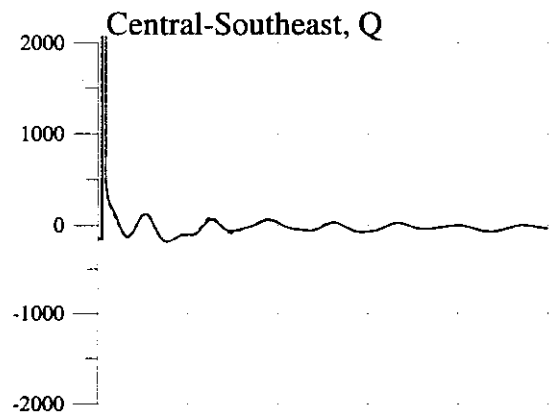
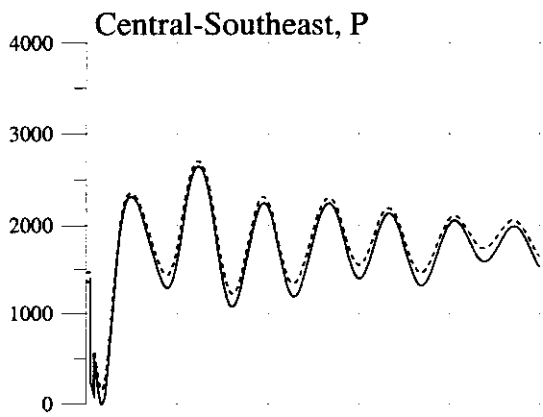
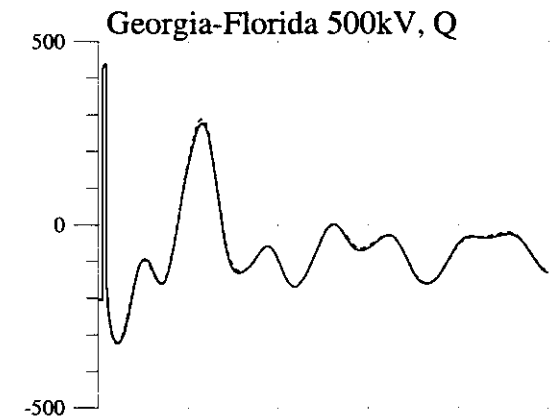
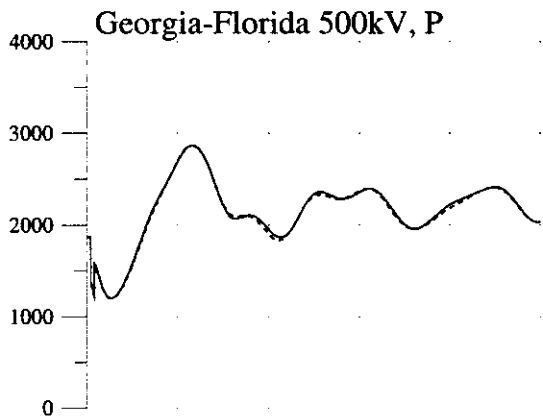
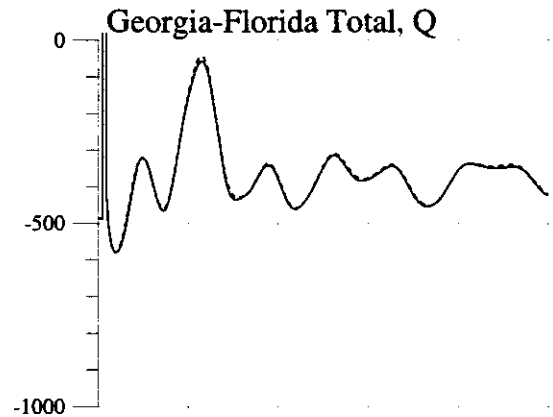
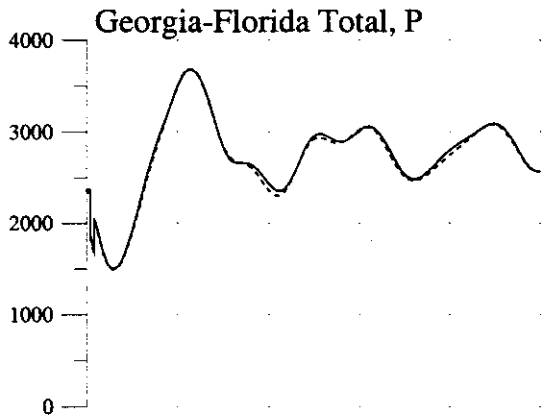
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



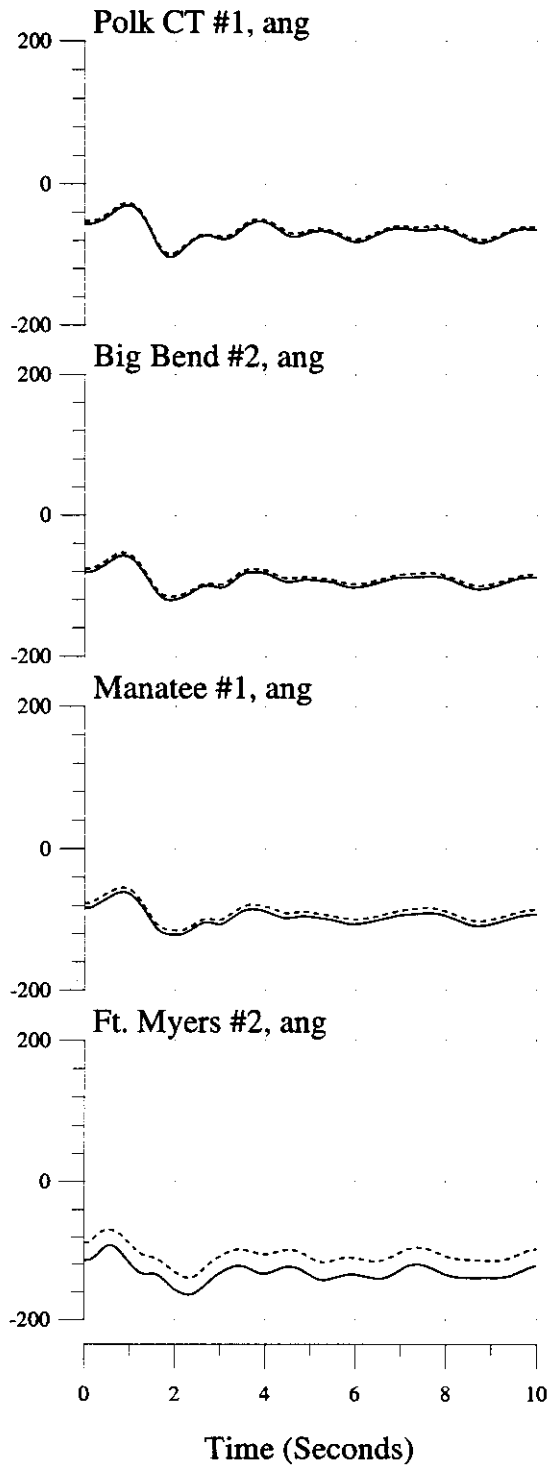
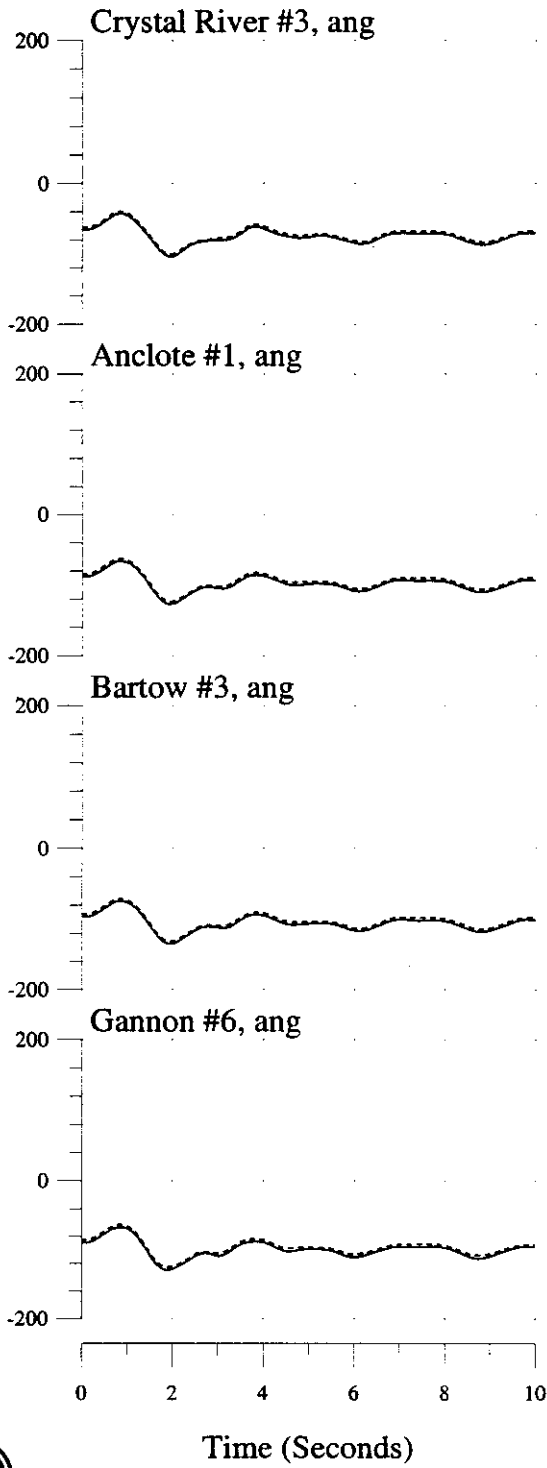
Time (Seconds)

Time (Seconds)



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

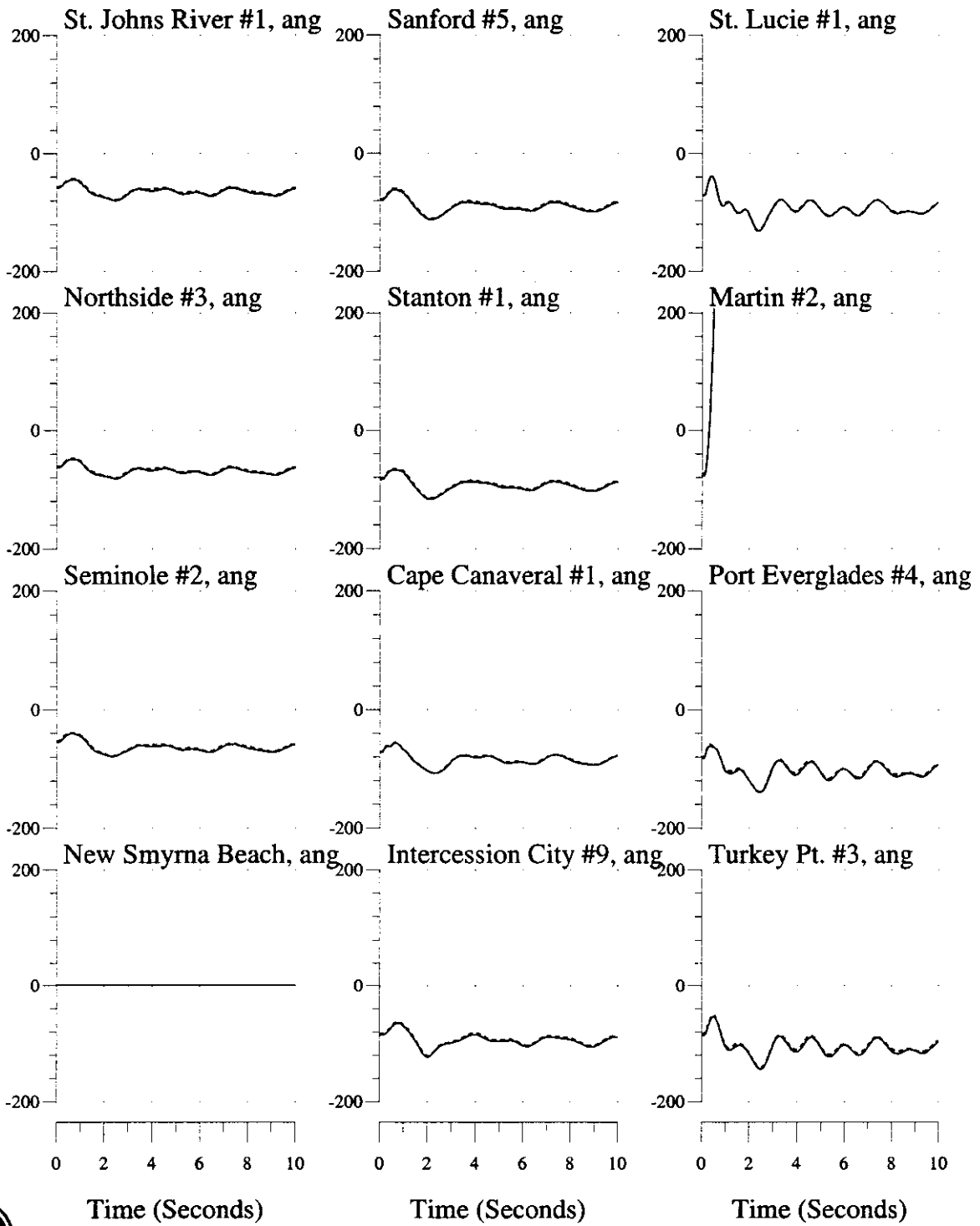
Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without





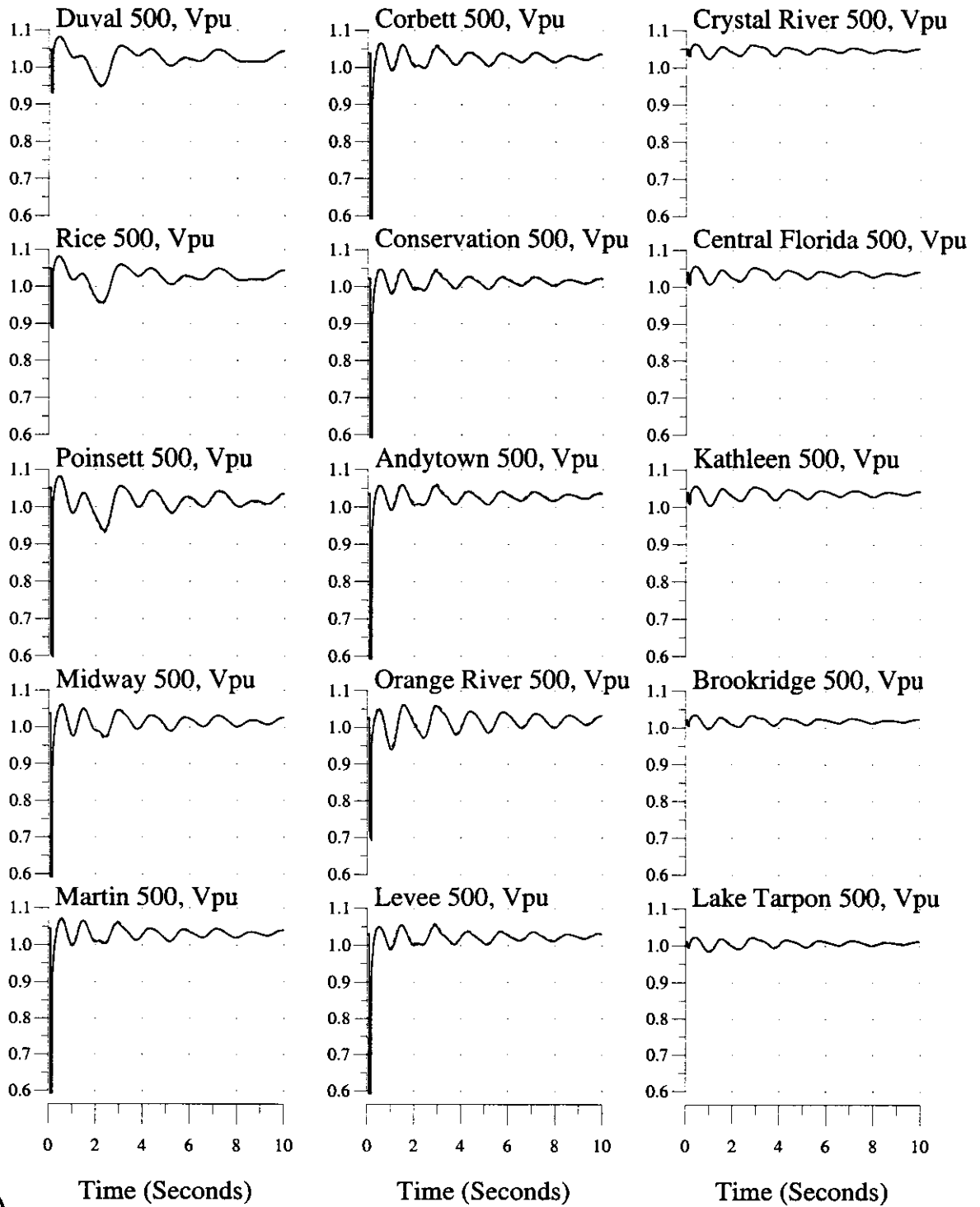
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



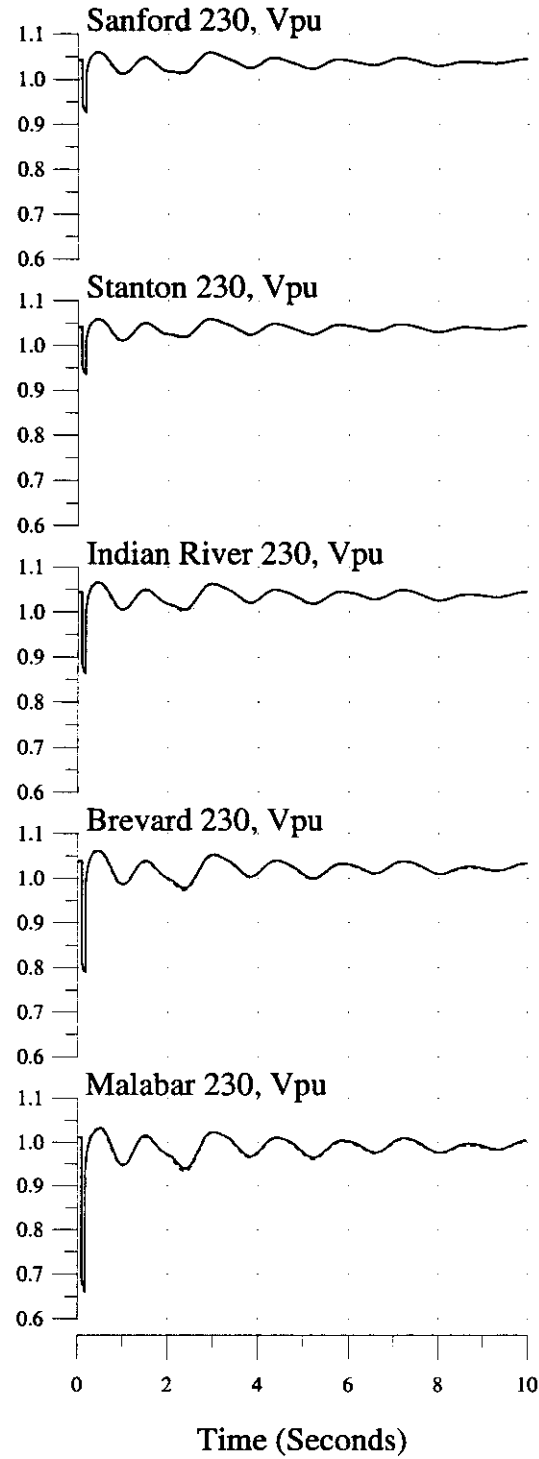
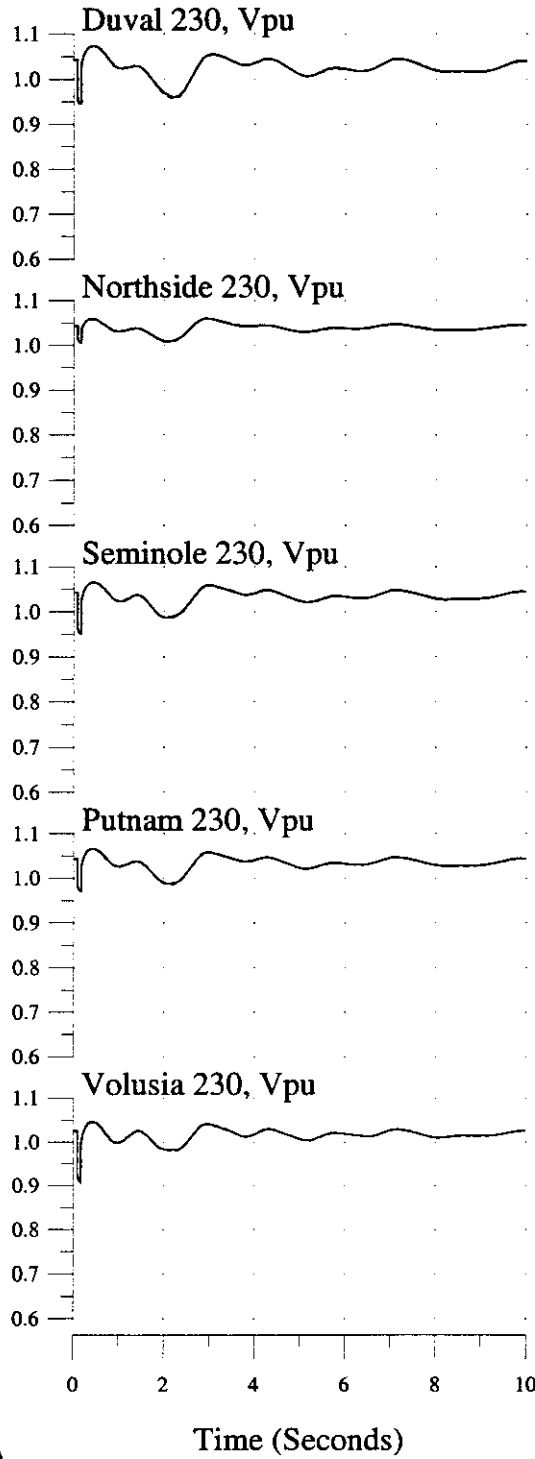
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



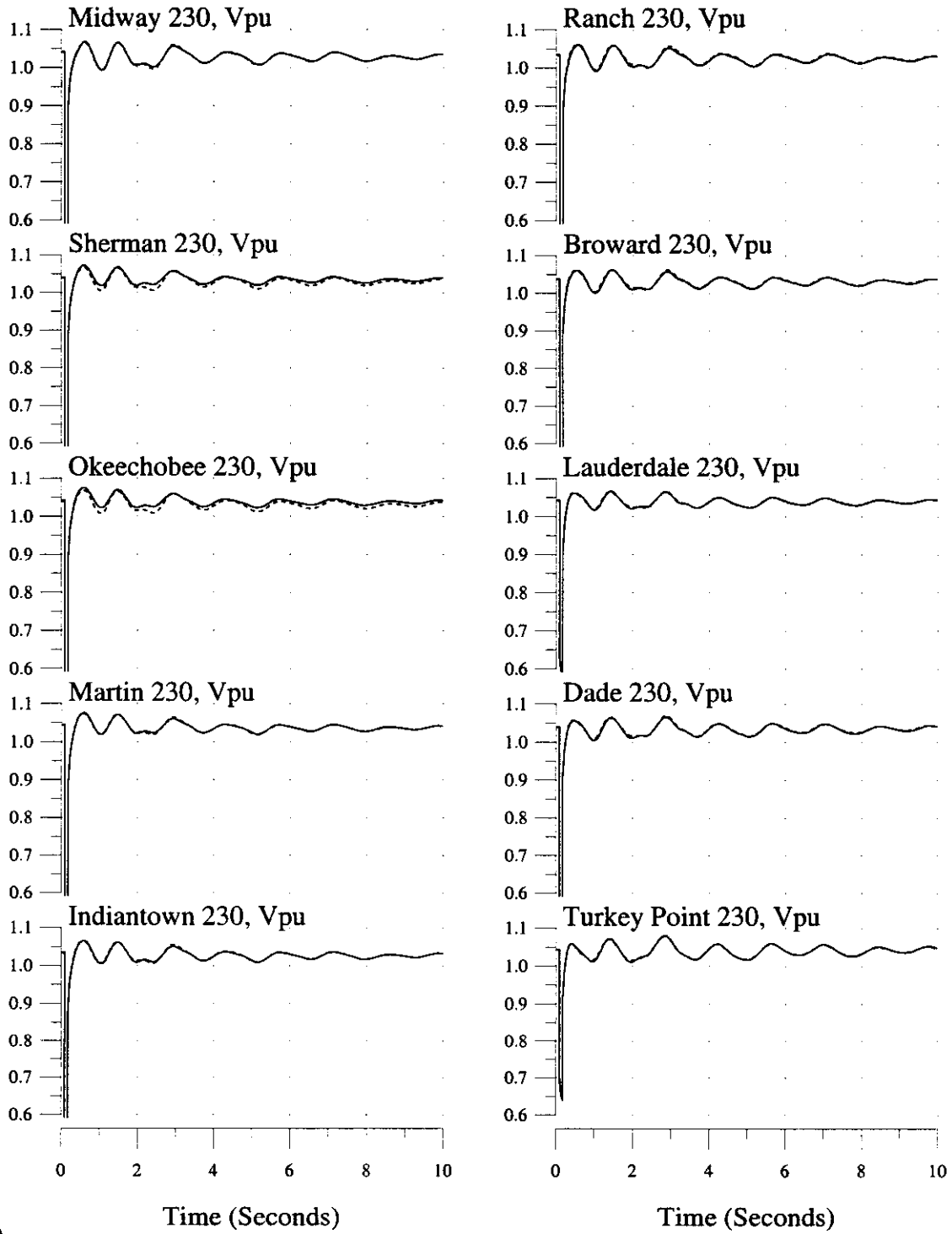
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



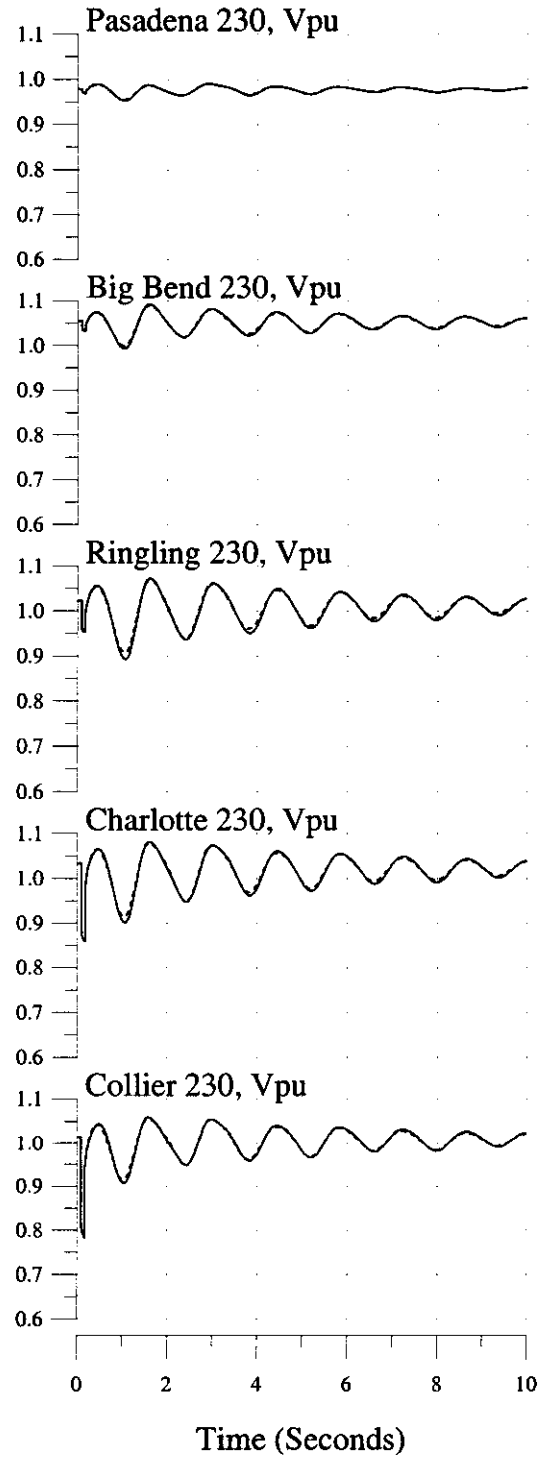
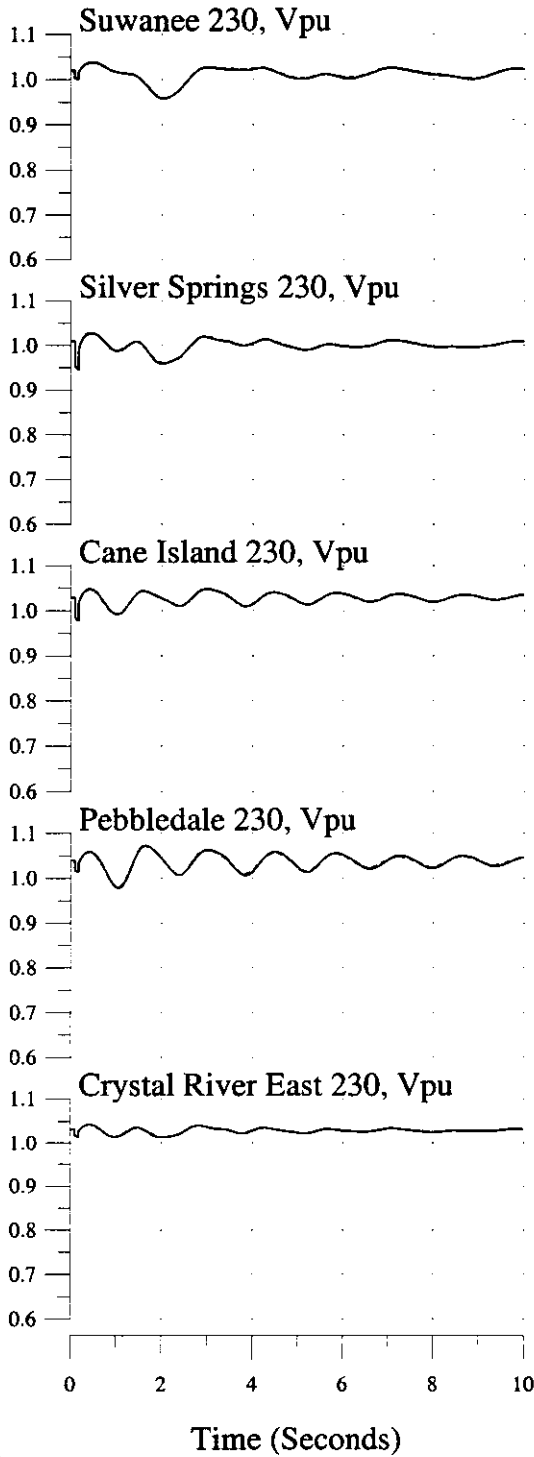
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



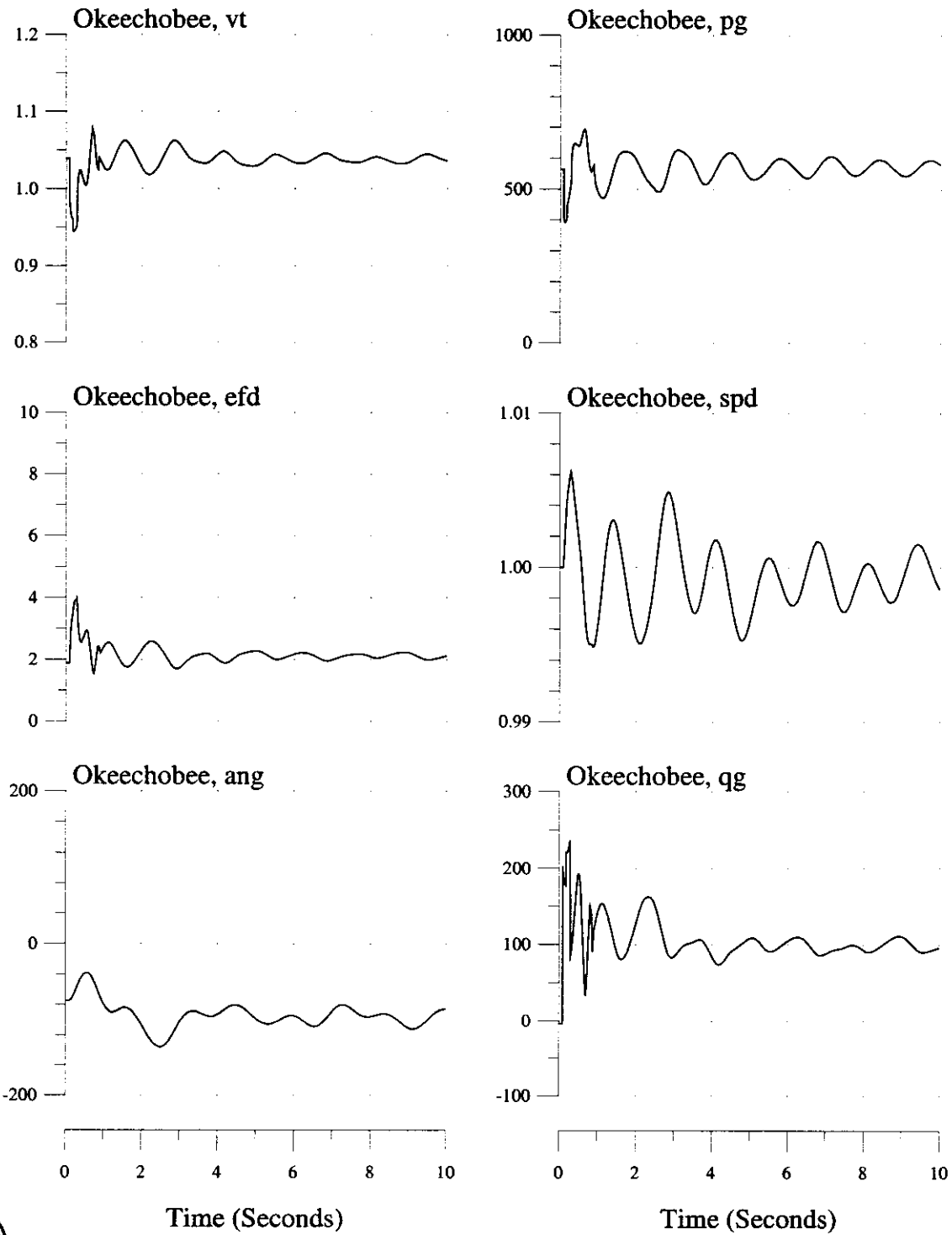
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



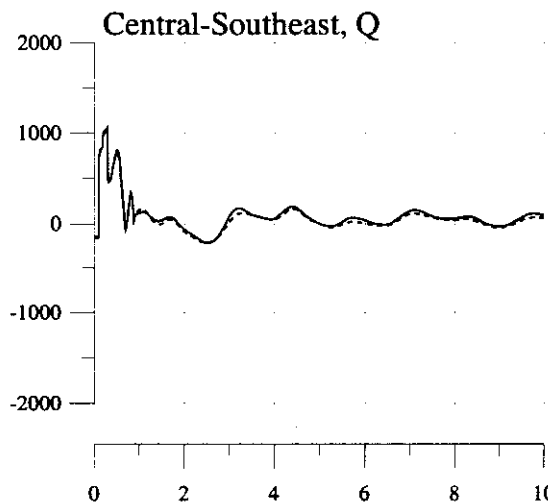
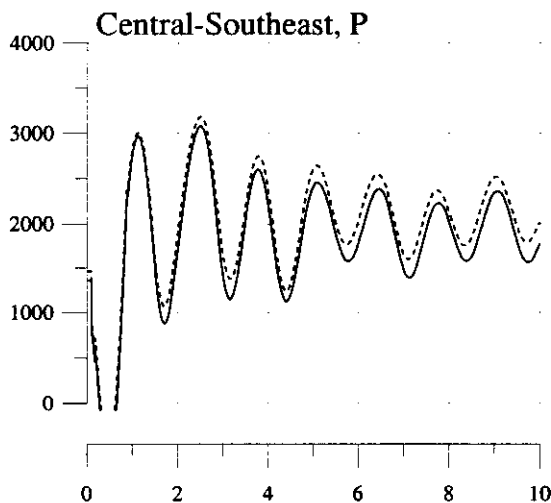
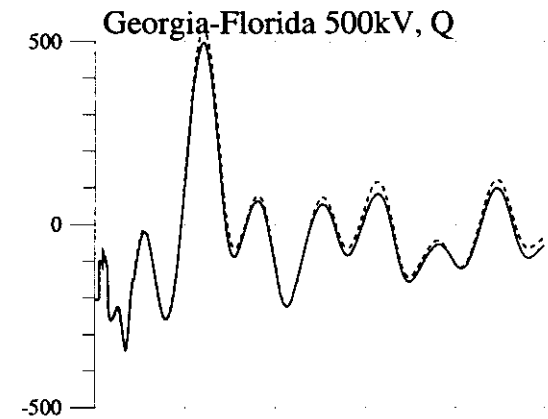
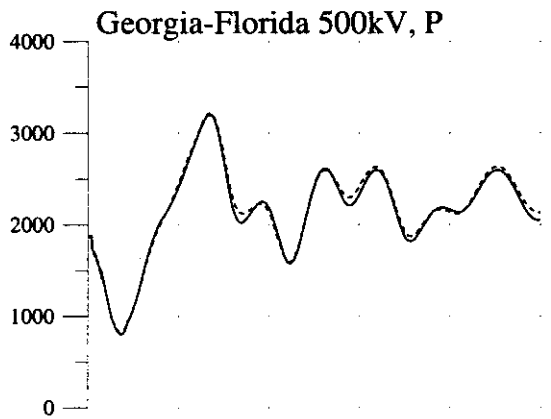
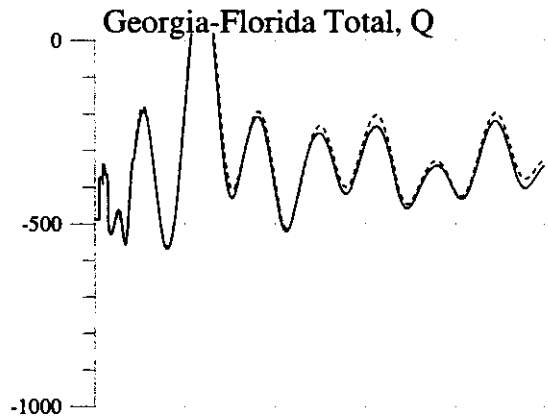
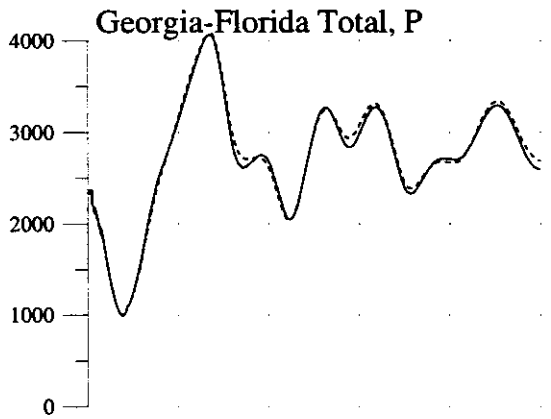
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



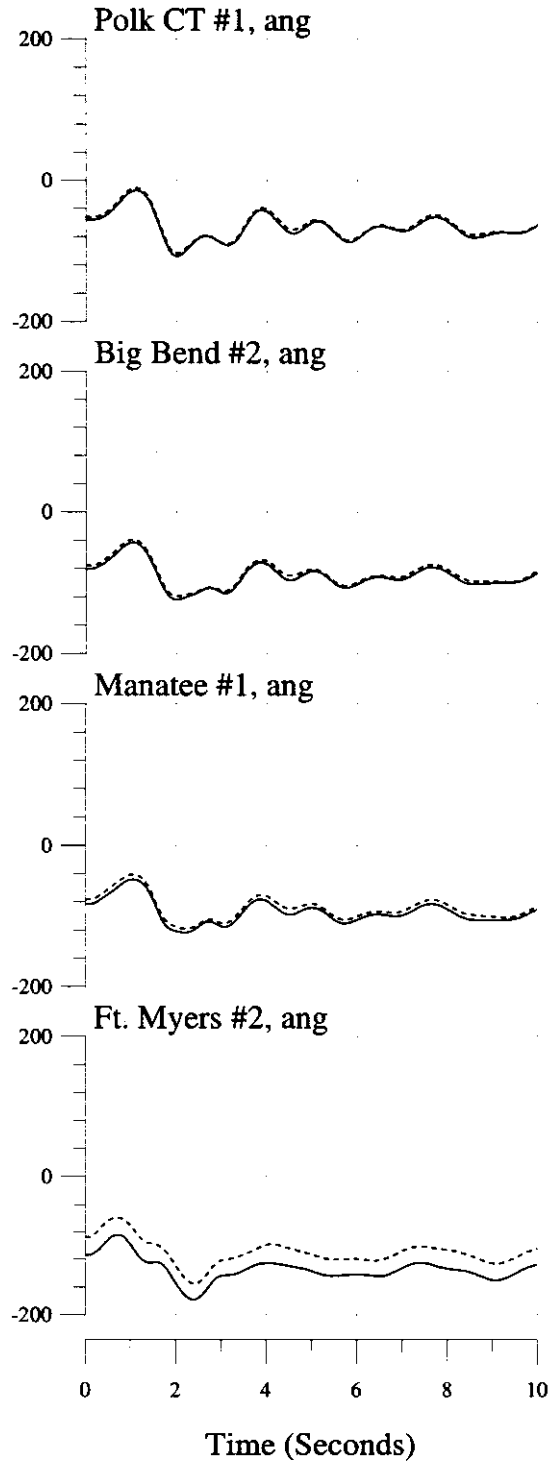
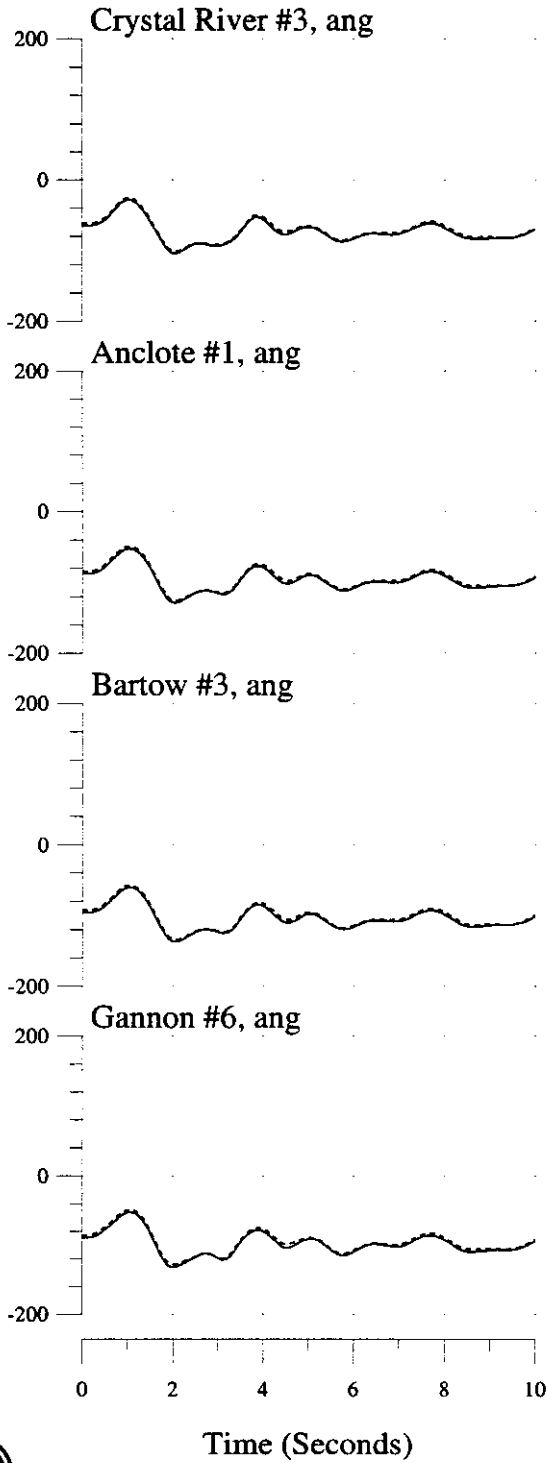
Time (Seconds)

Time (Seconds)



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

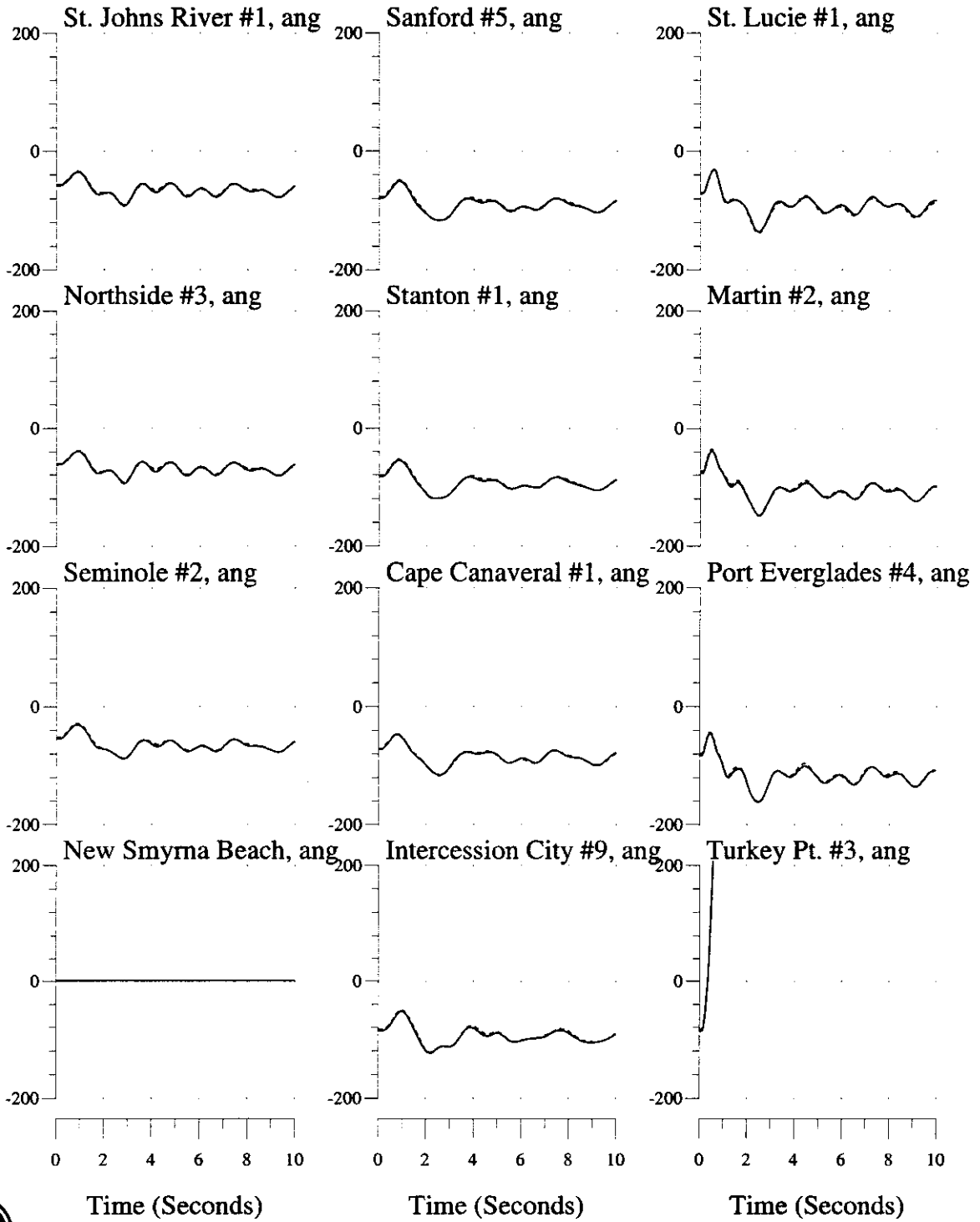
Machine Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without





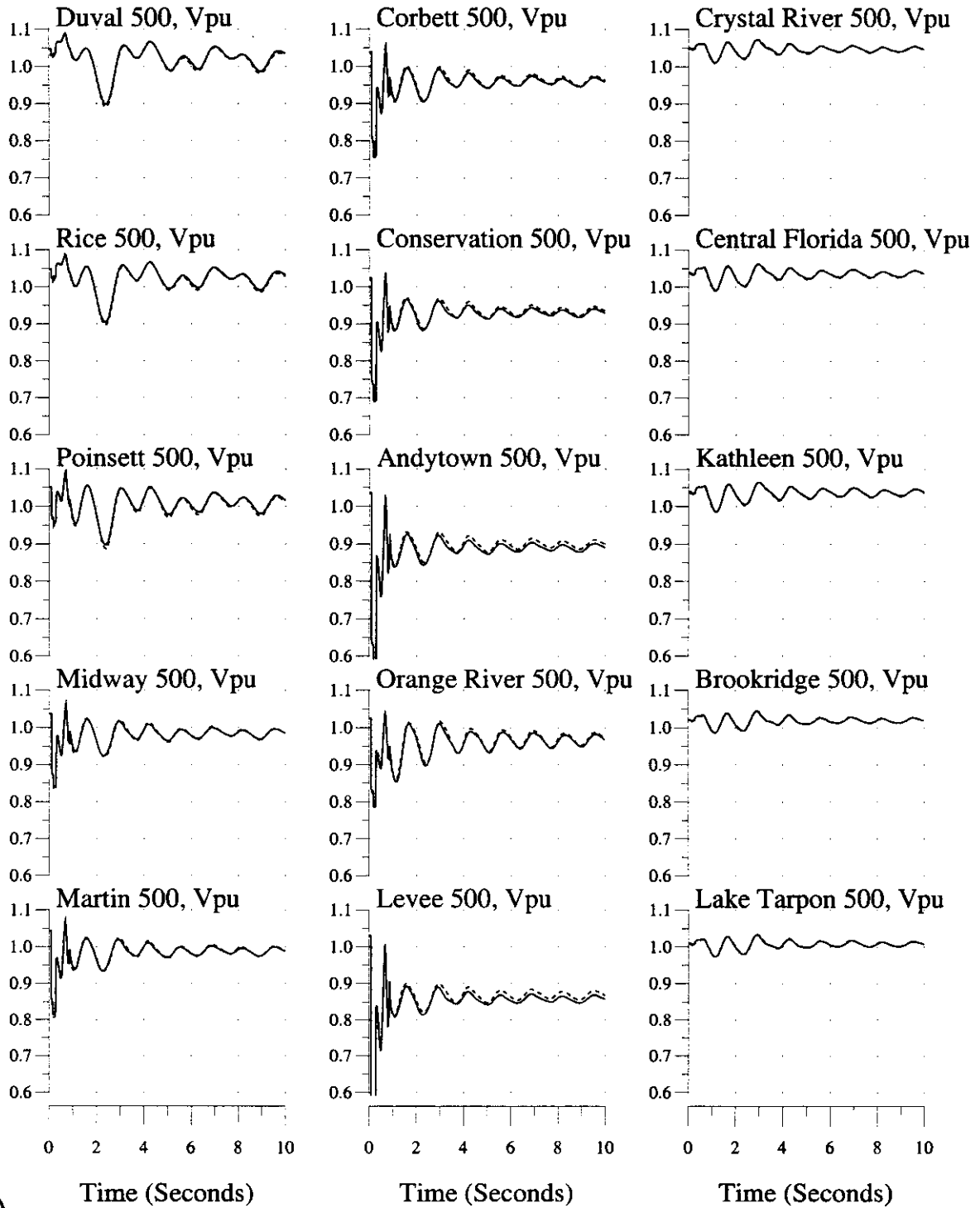
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Machine Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



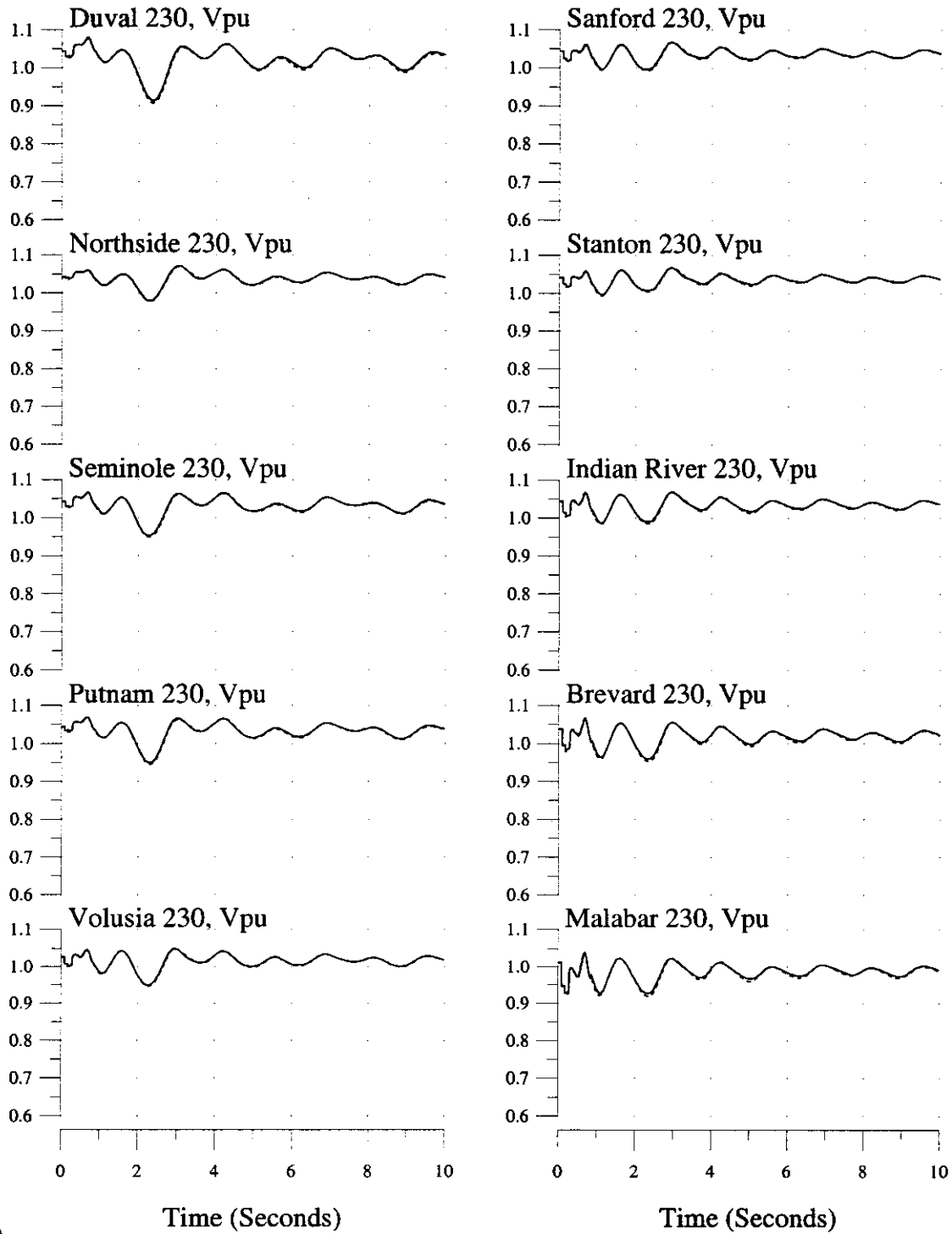
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 2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



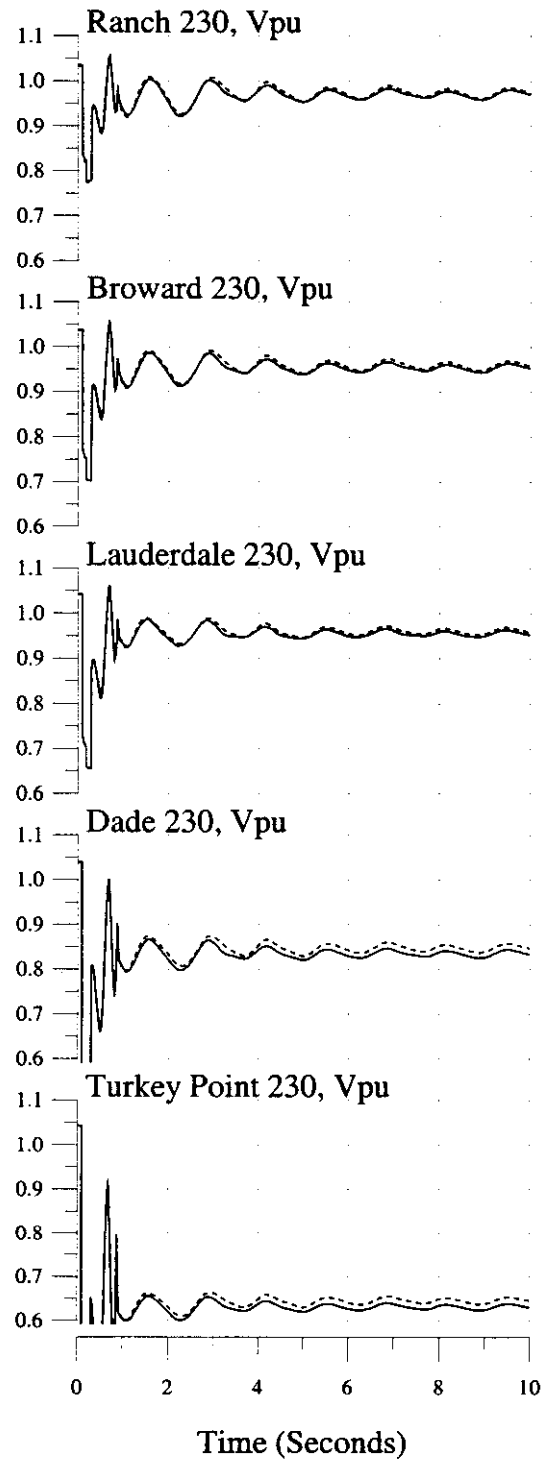
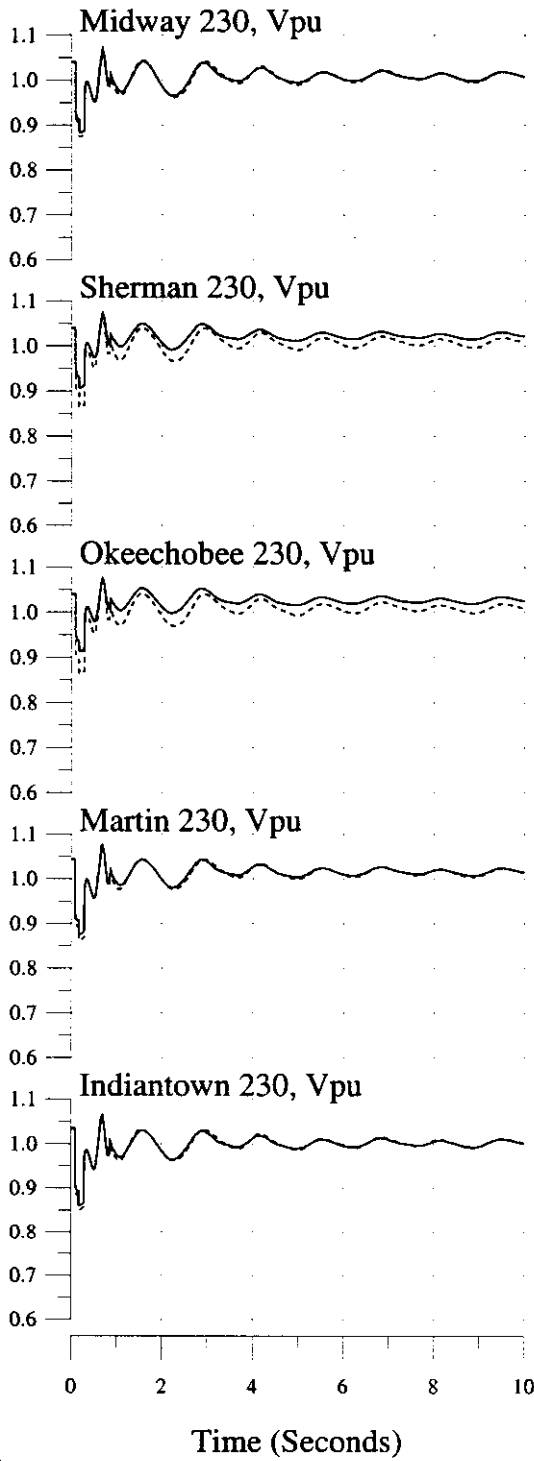
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without



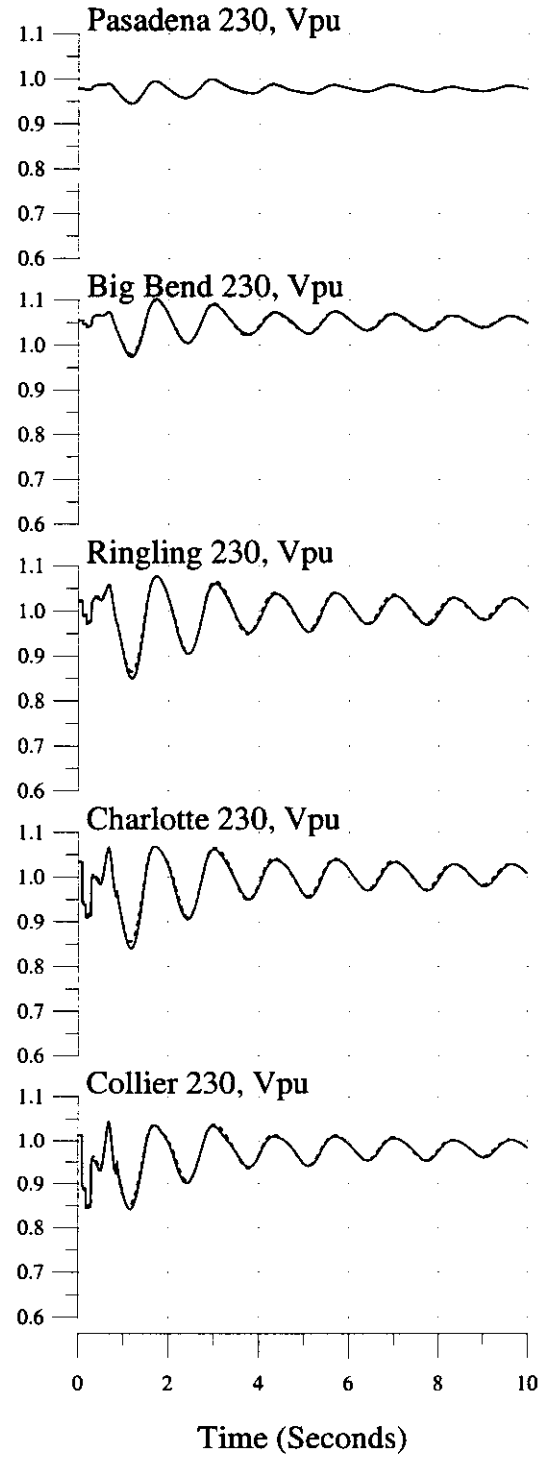
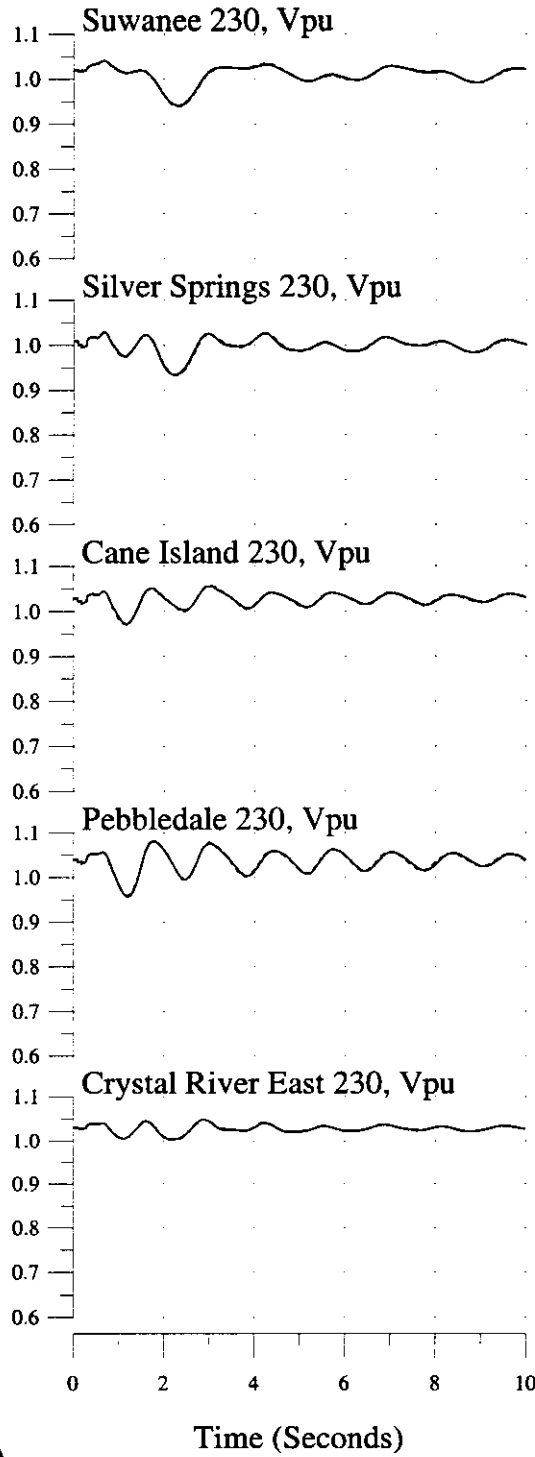
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Bus Variables: (—) With Okeechobee So. FPL Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

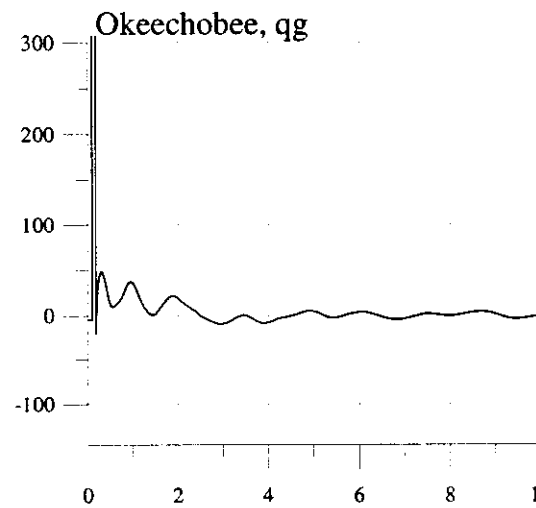
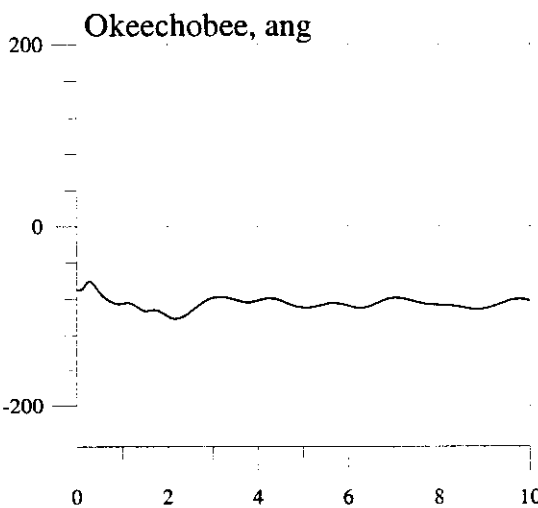
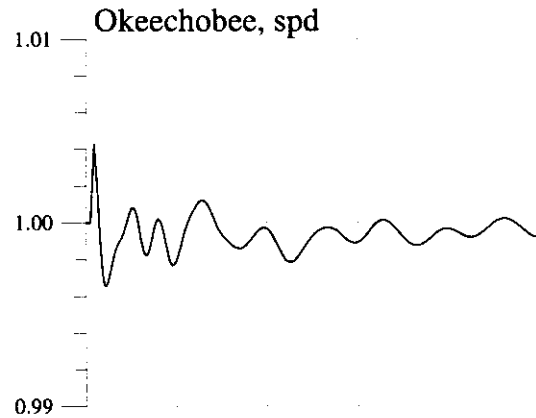
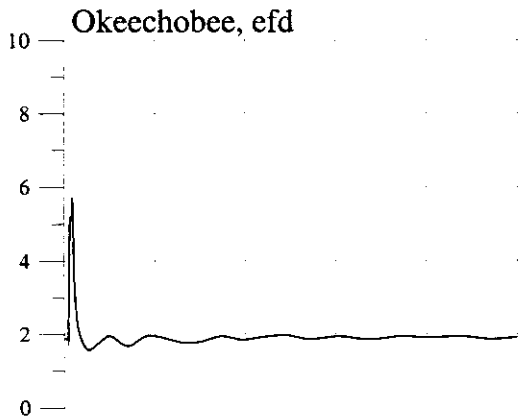
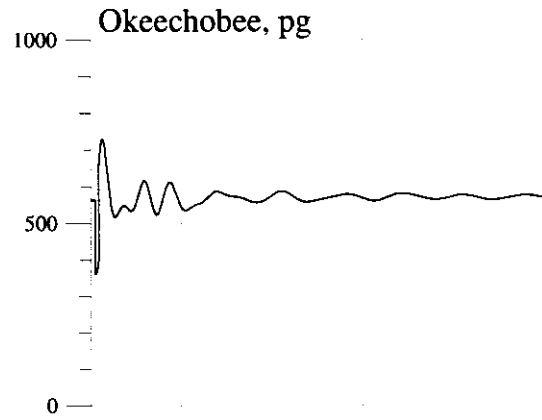
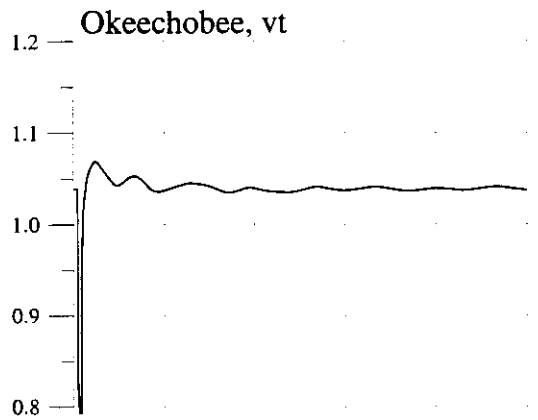
Bus Variables: (\_\_\_) With Okeechobee So. FPL Dispatch, (...) Without





3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



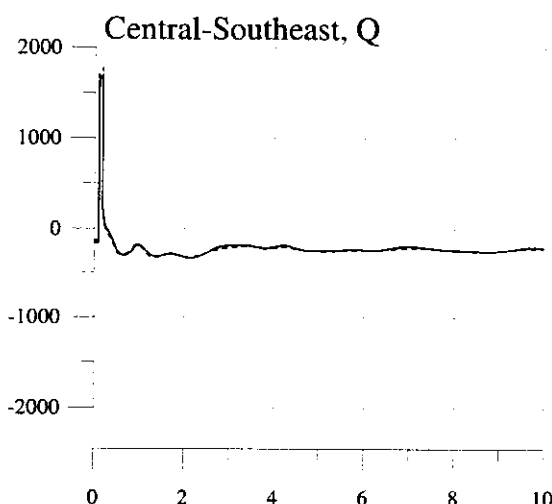
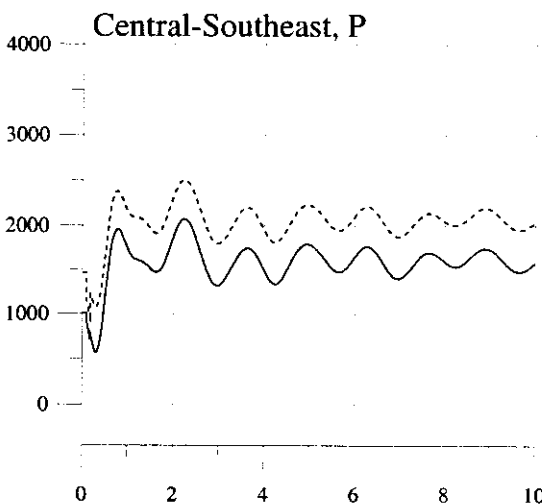
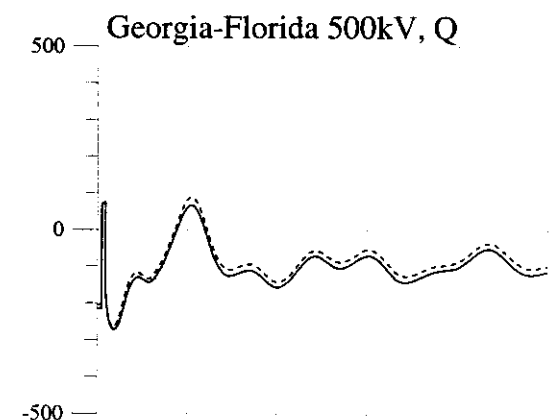
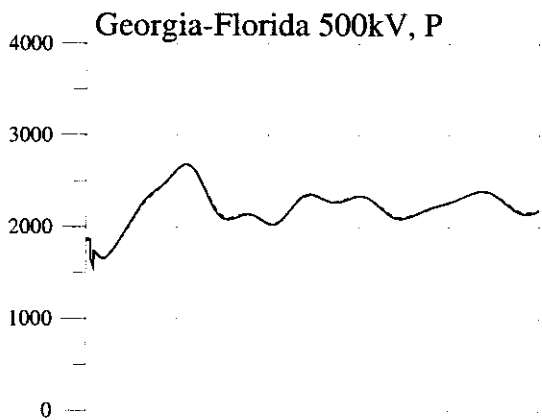
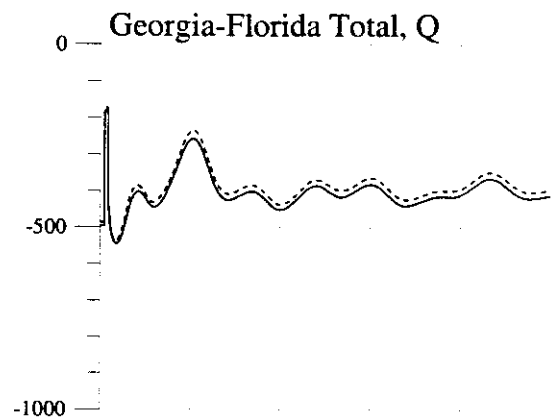
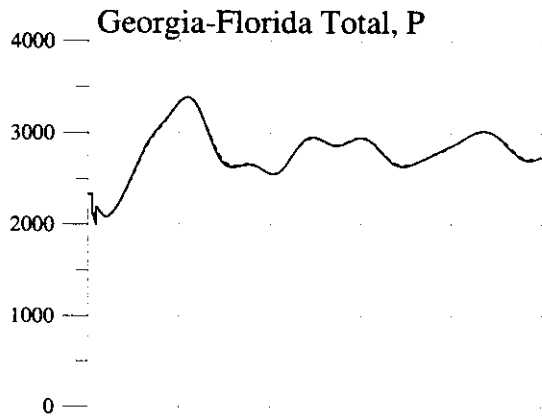
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

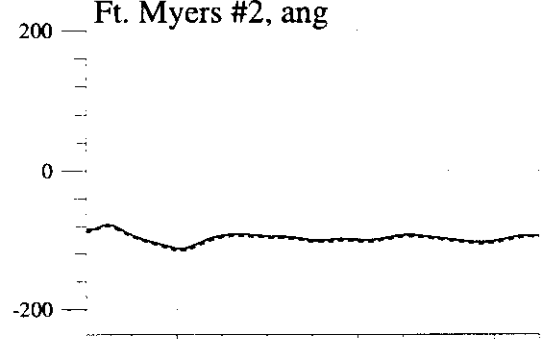
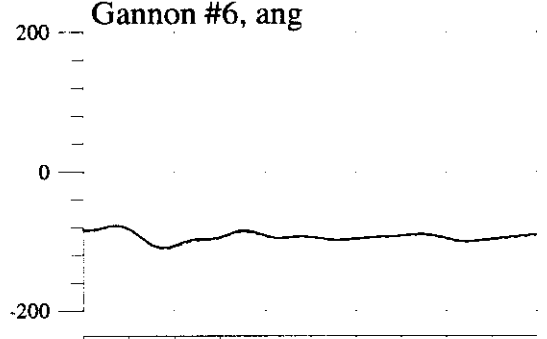
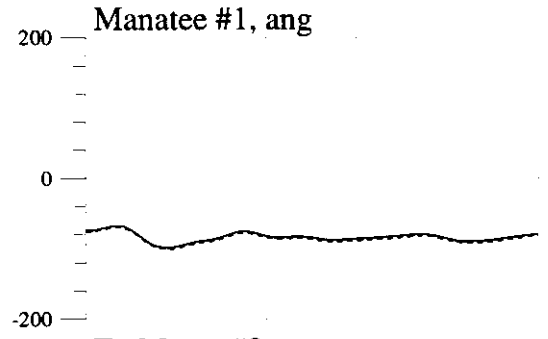
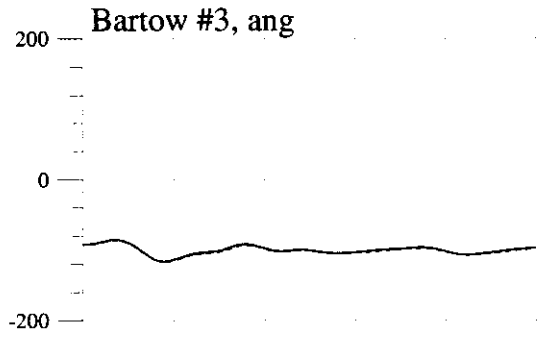
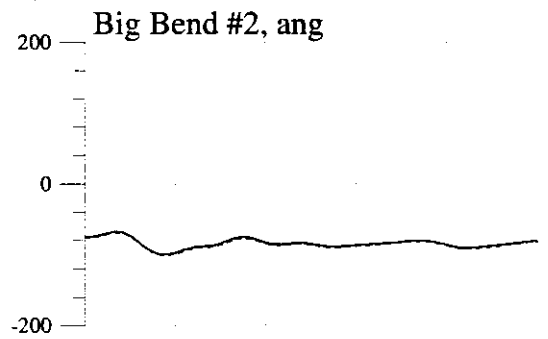
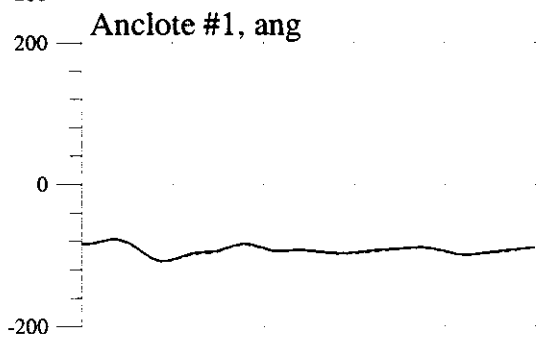
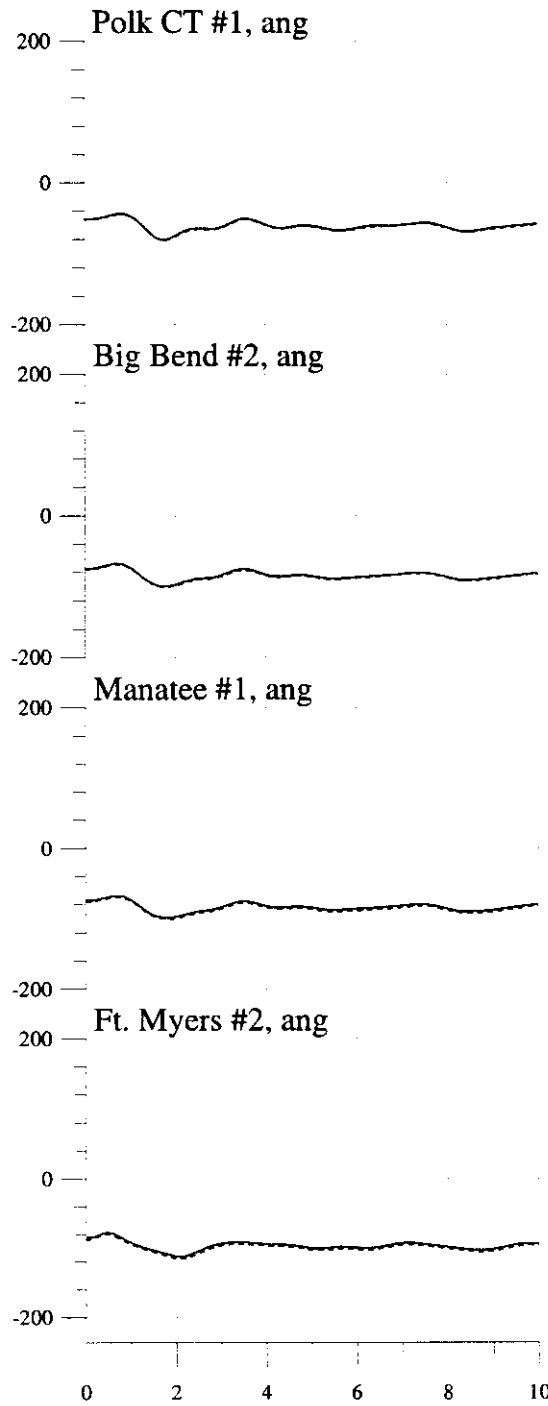
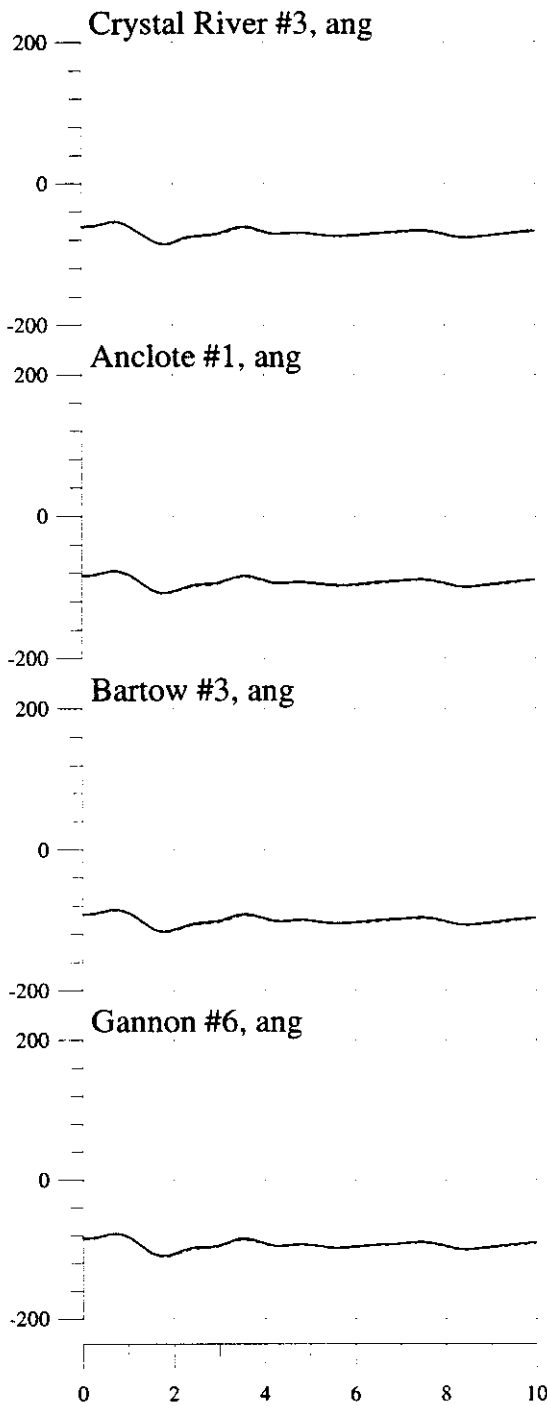
Time (Seconds)





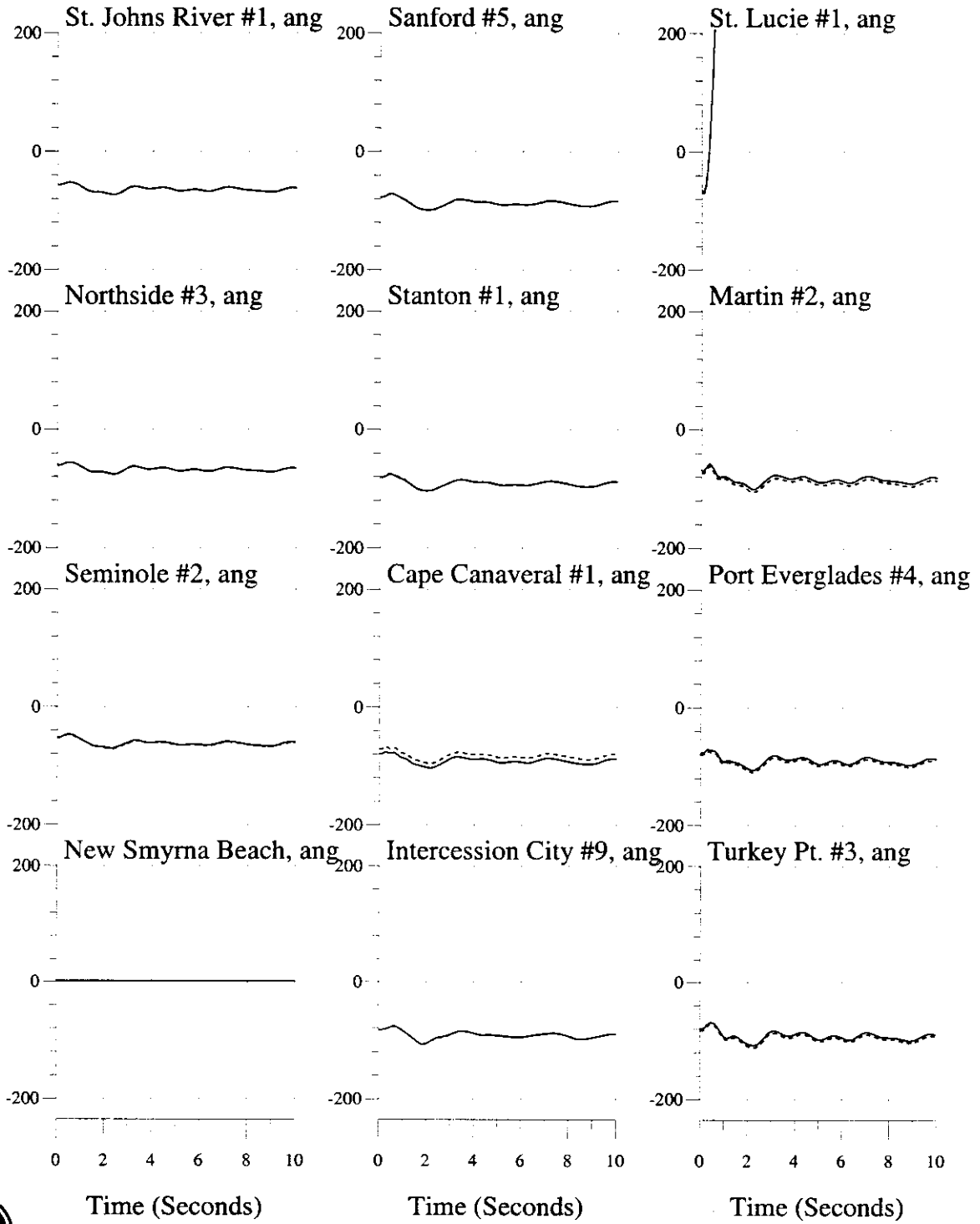
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



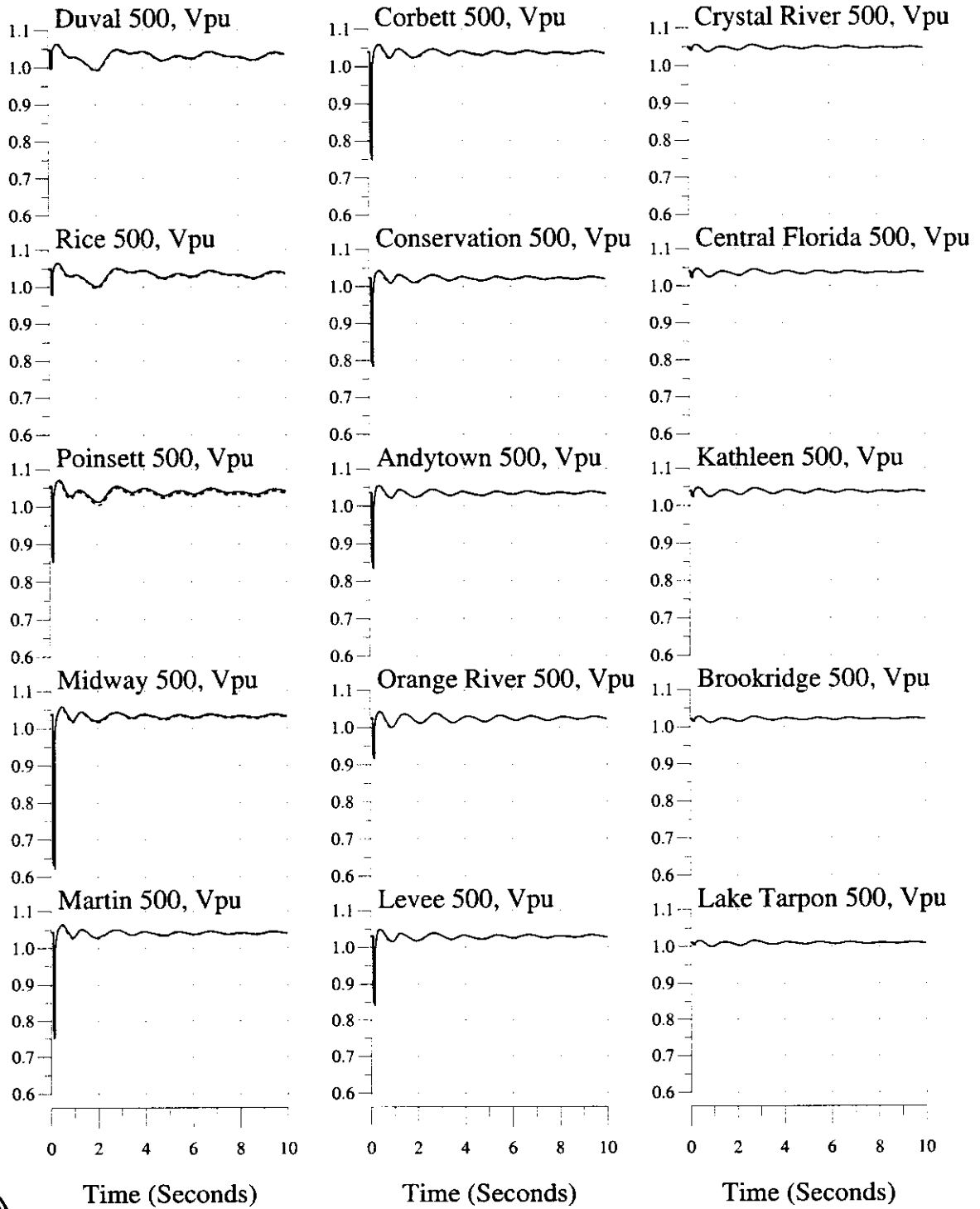
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



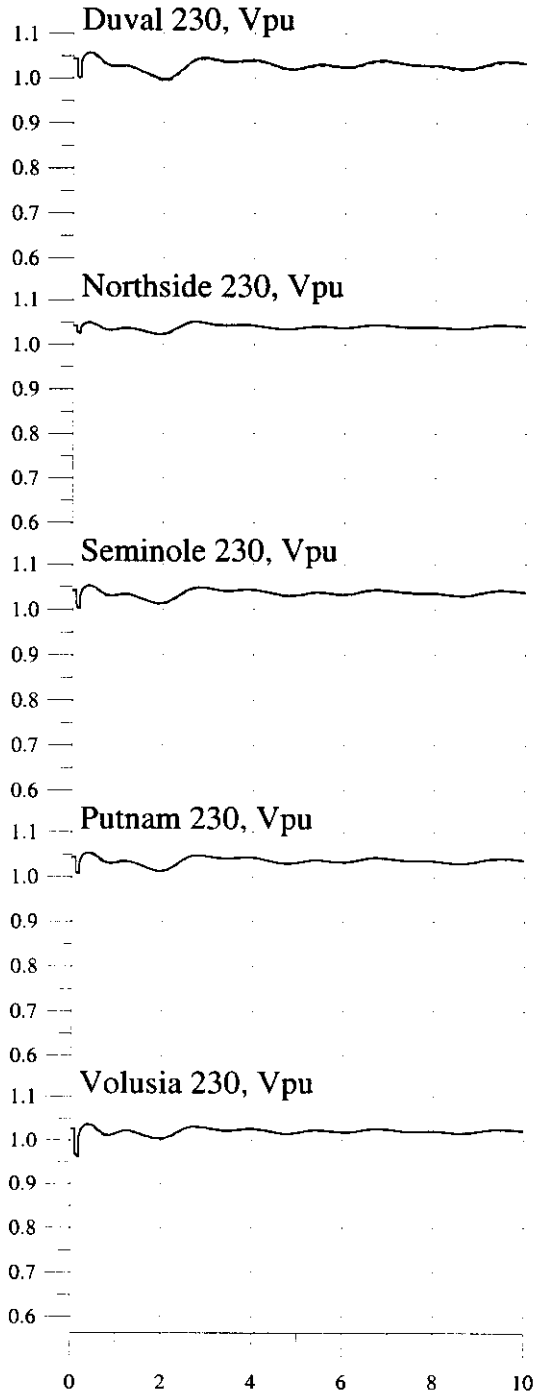
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

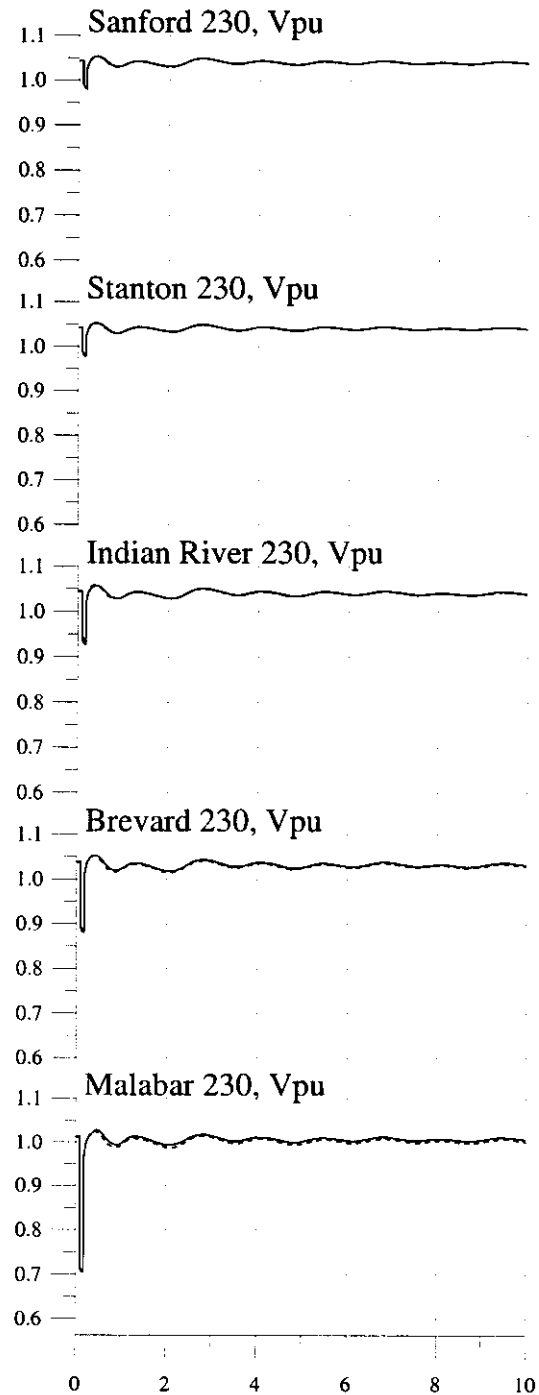


3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

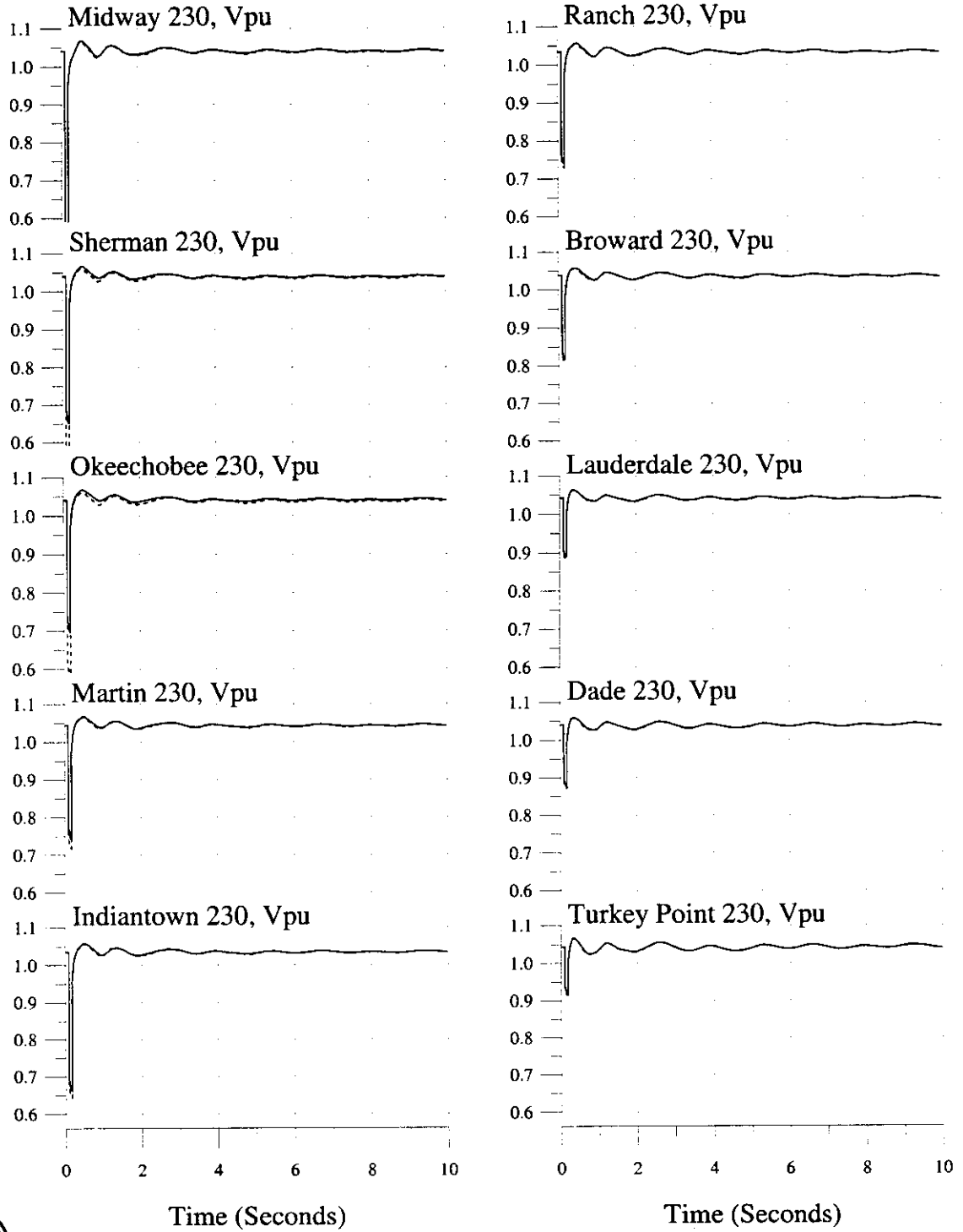


Time (Seconds)



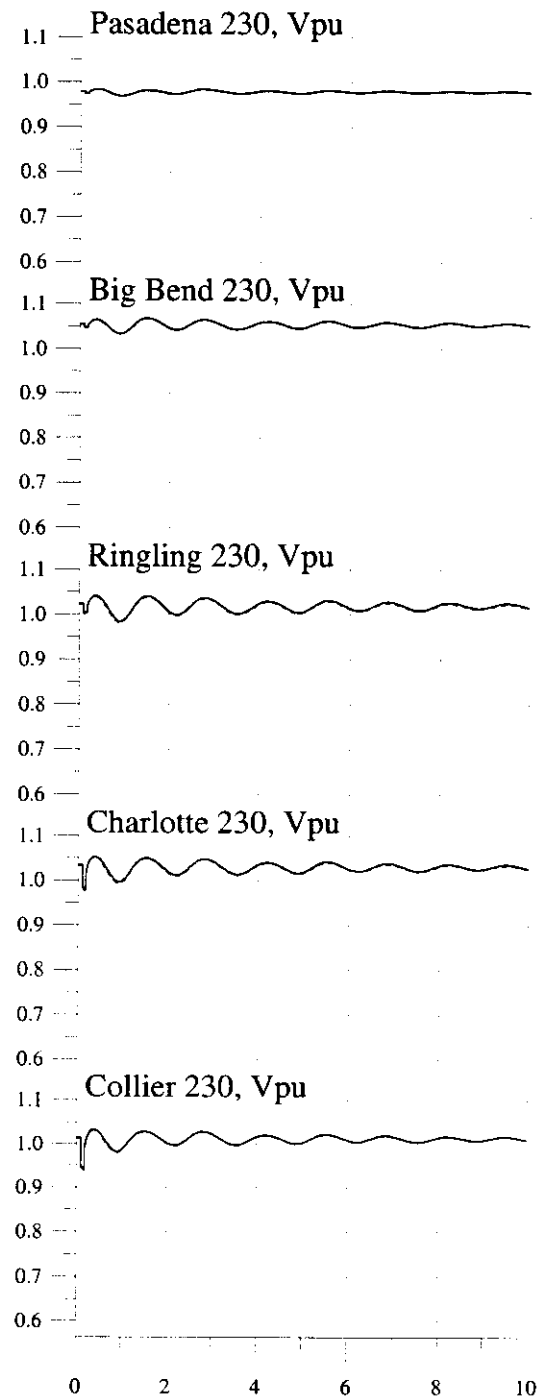
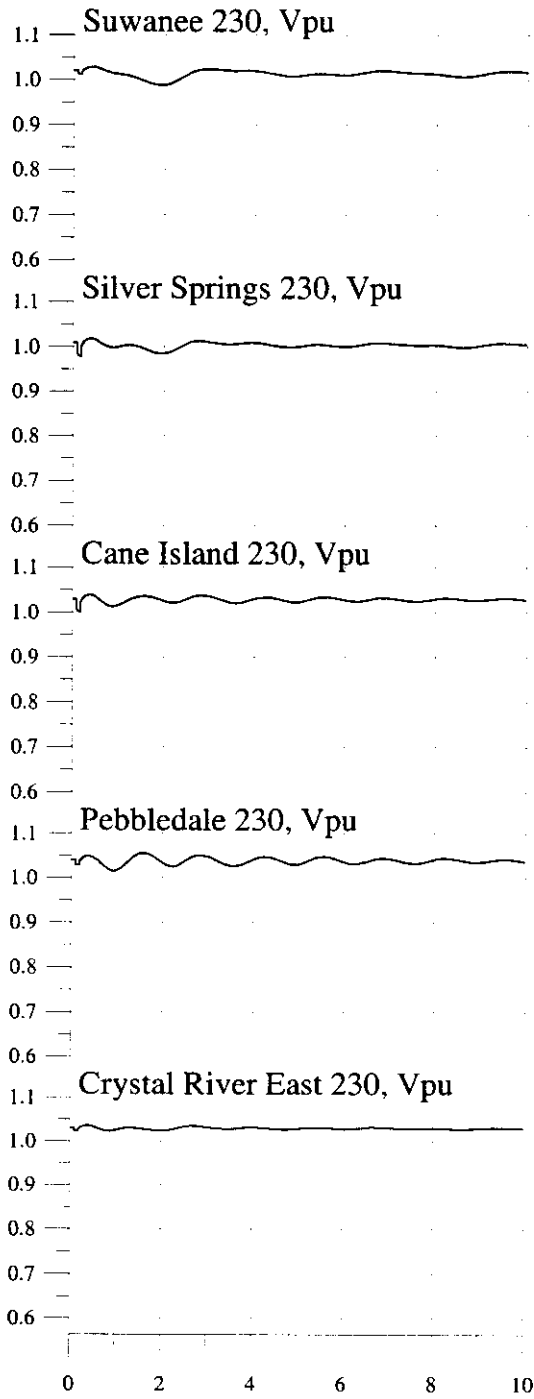
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



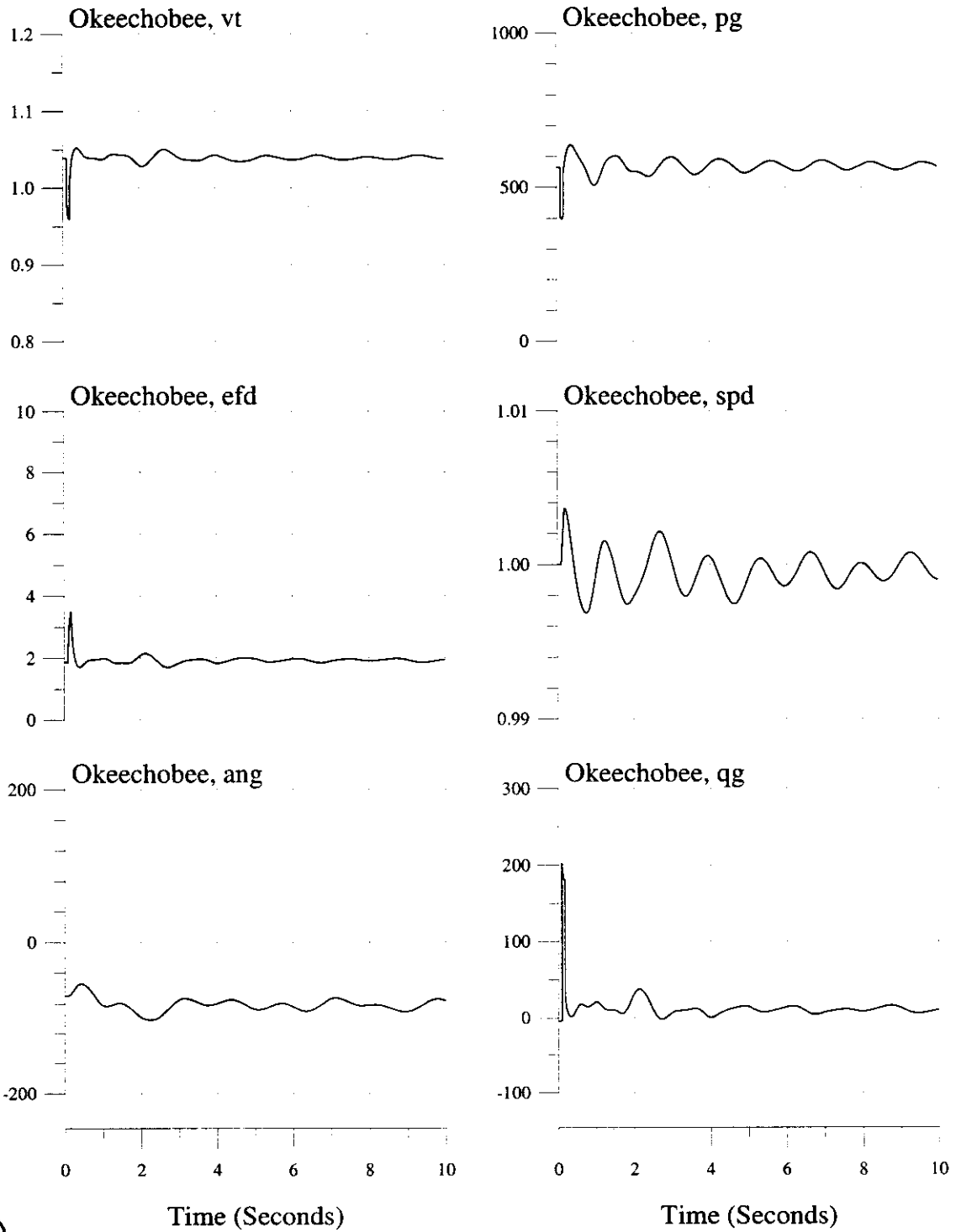
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



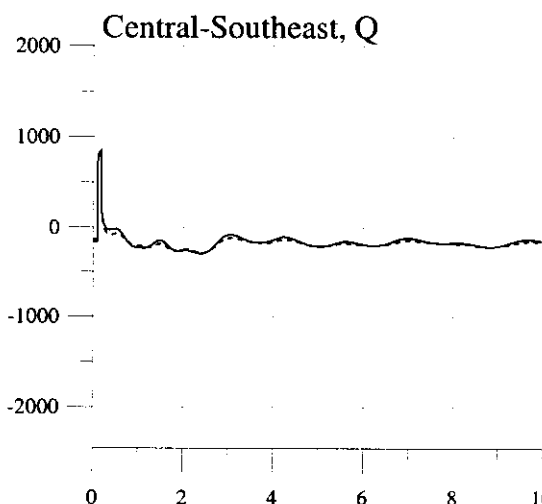
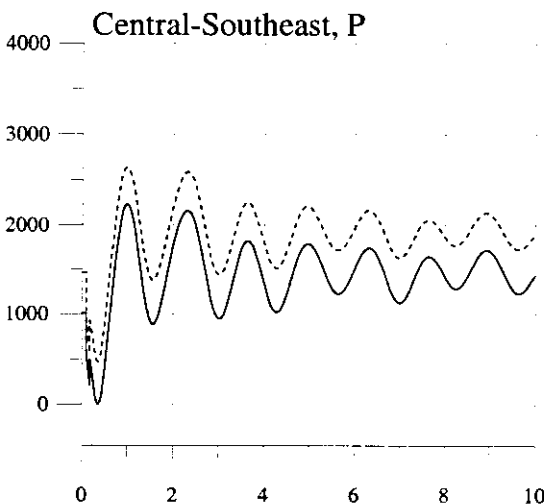
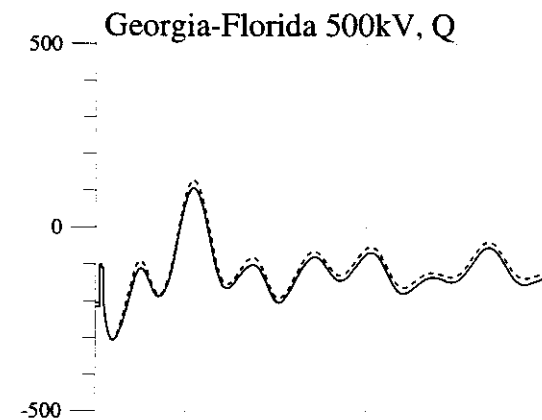
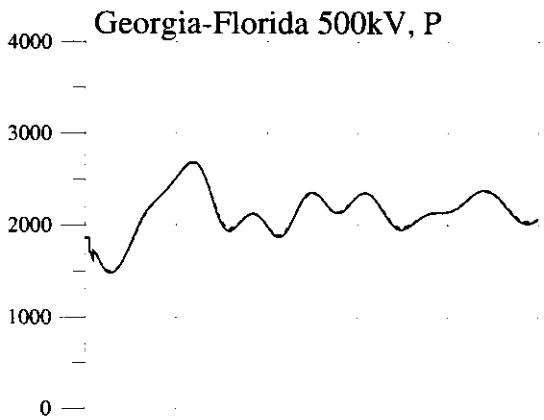
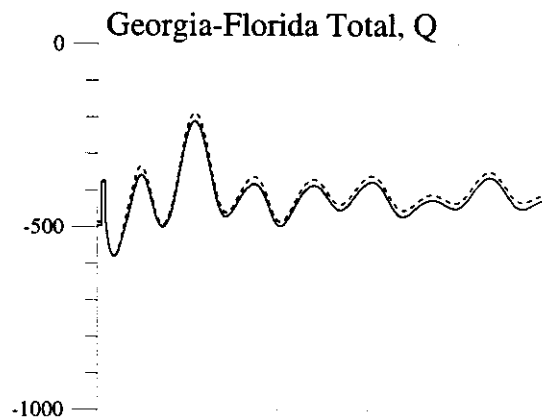
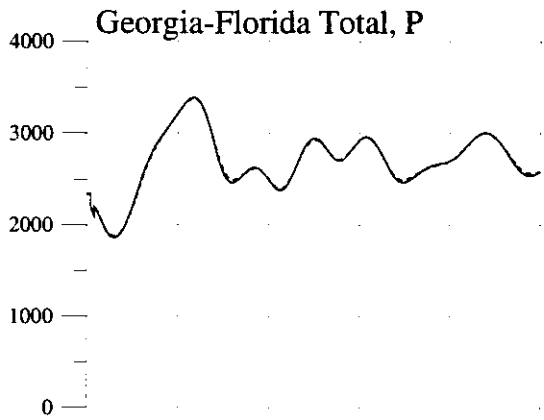
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

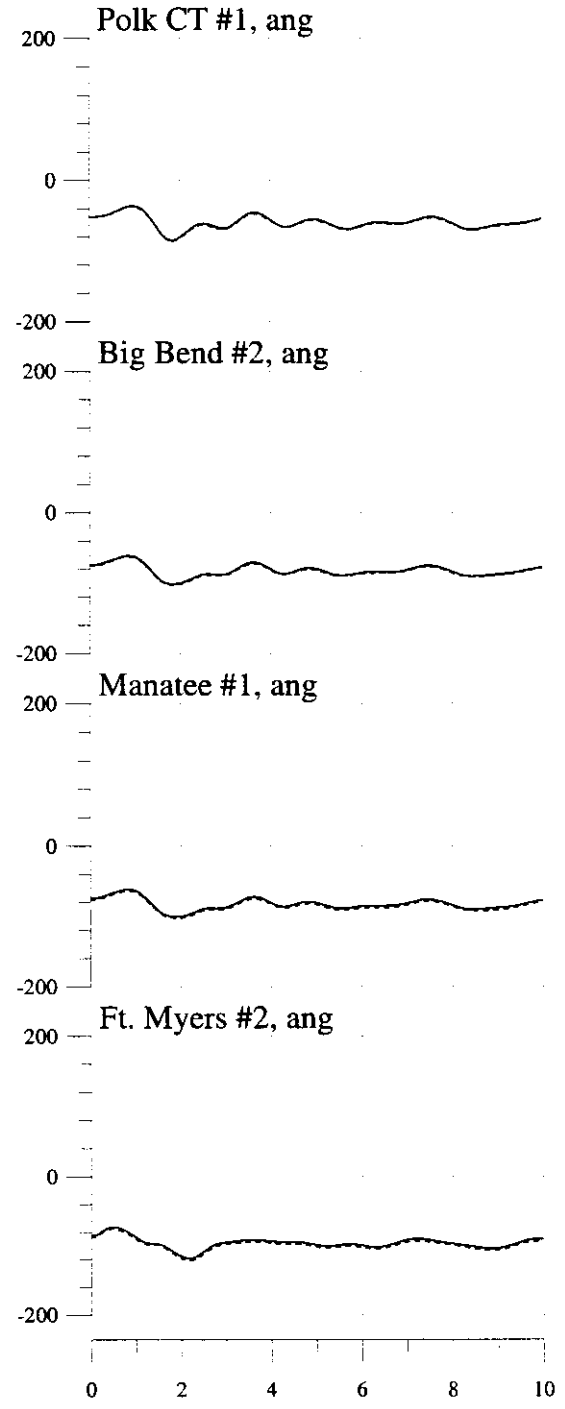
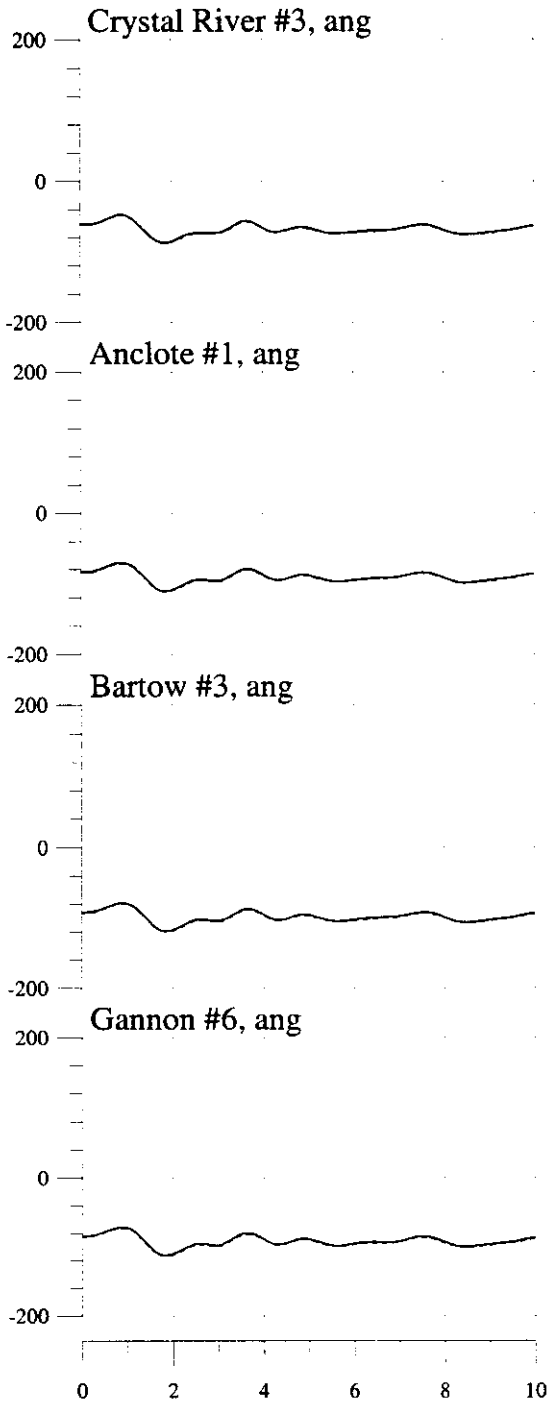
Time (Seconds)





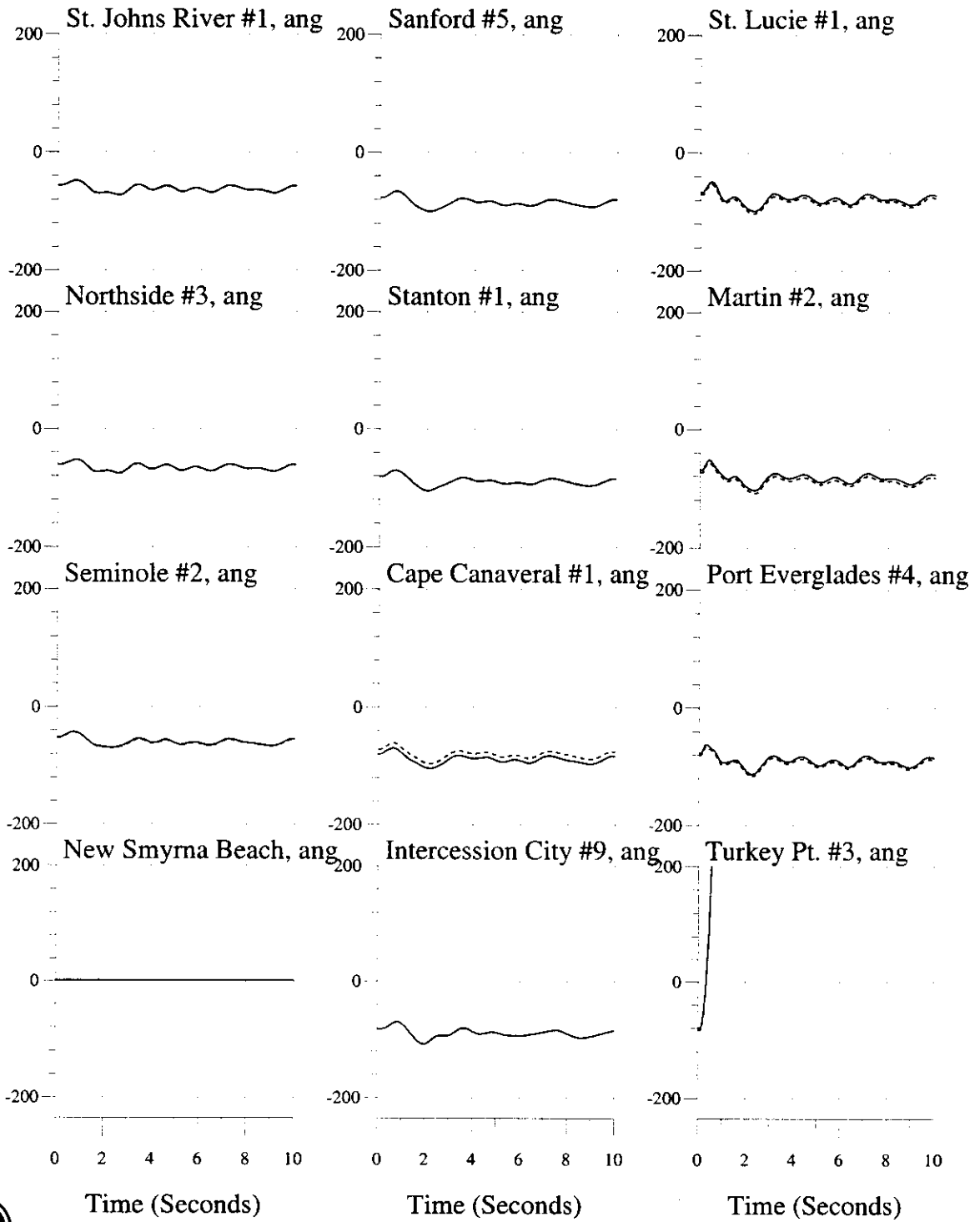
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



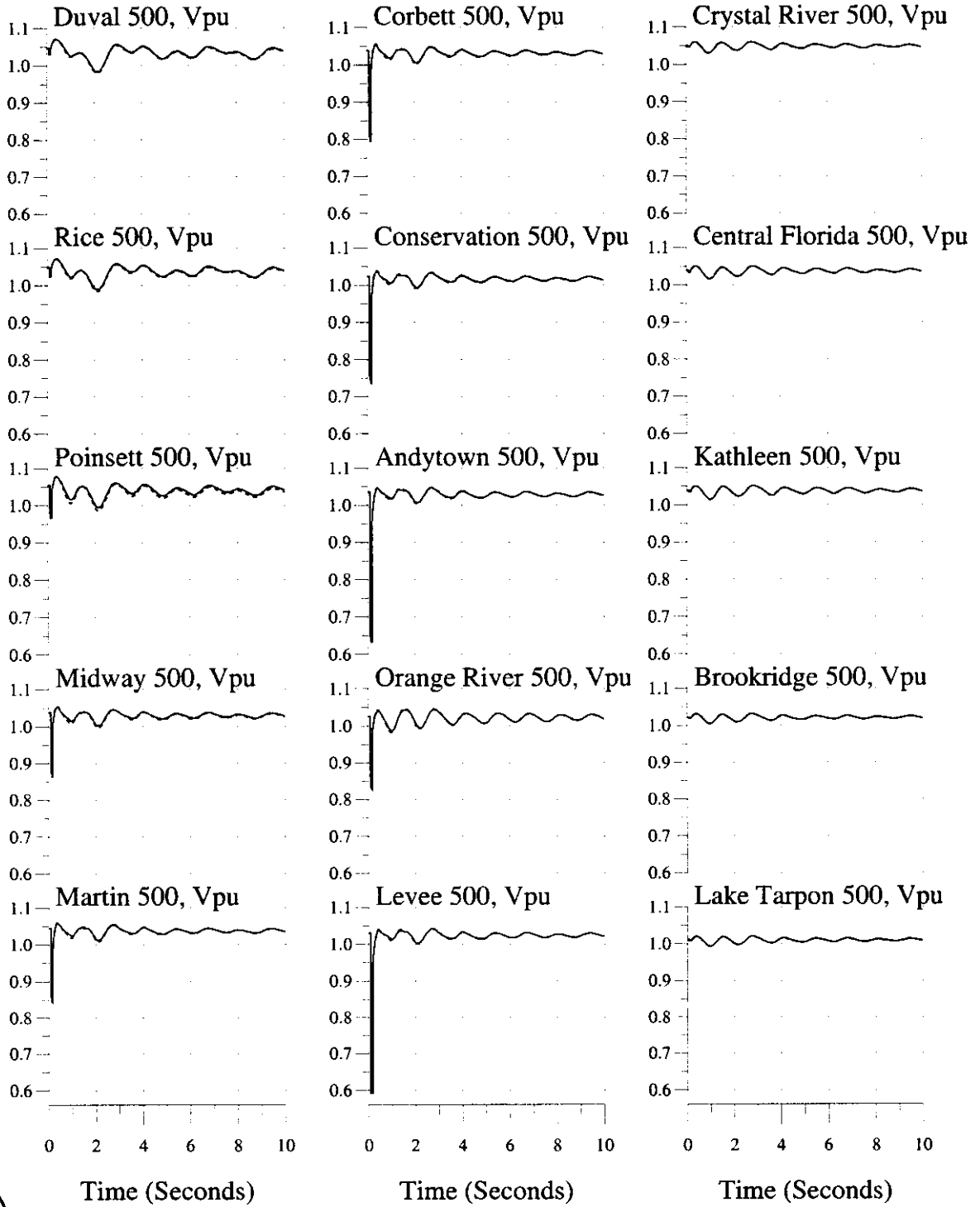
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



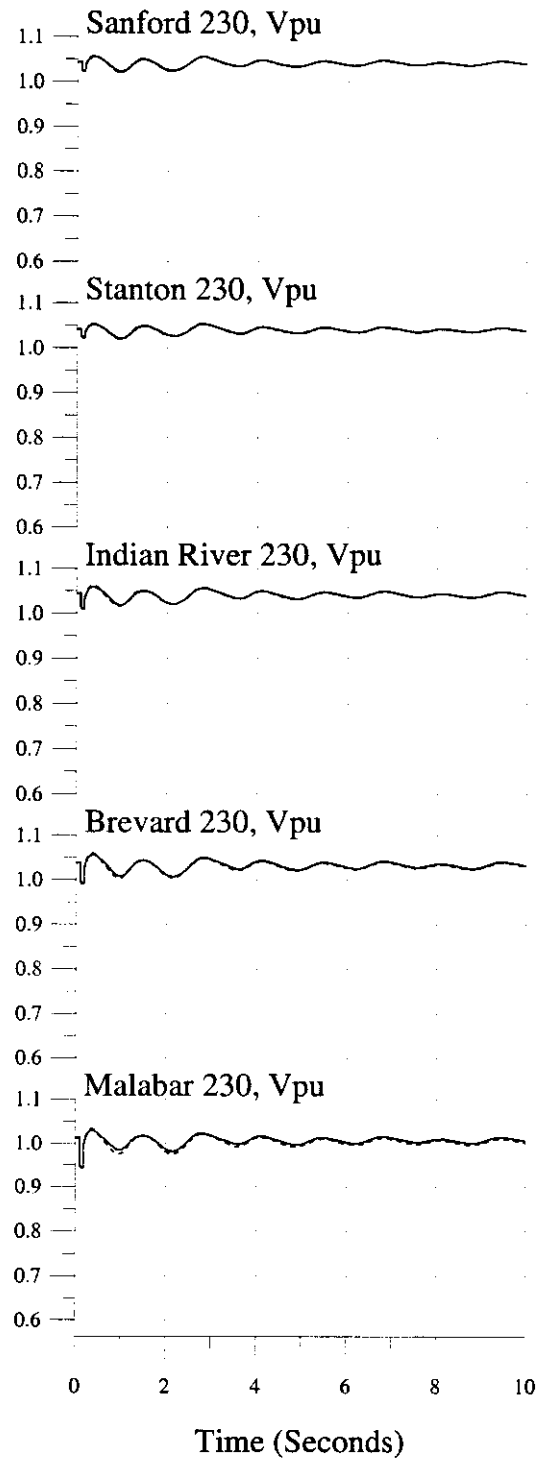
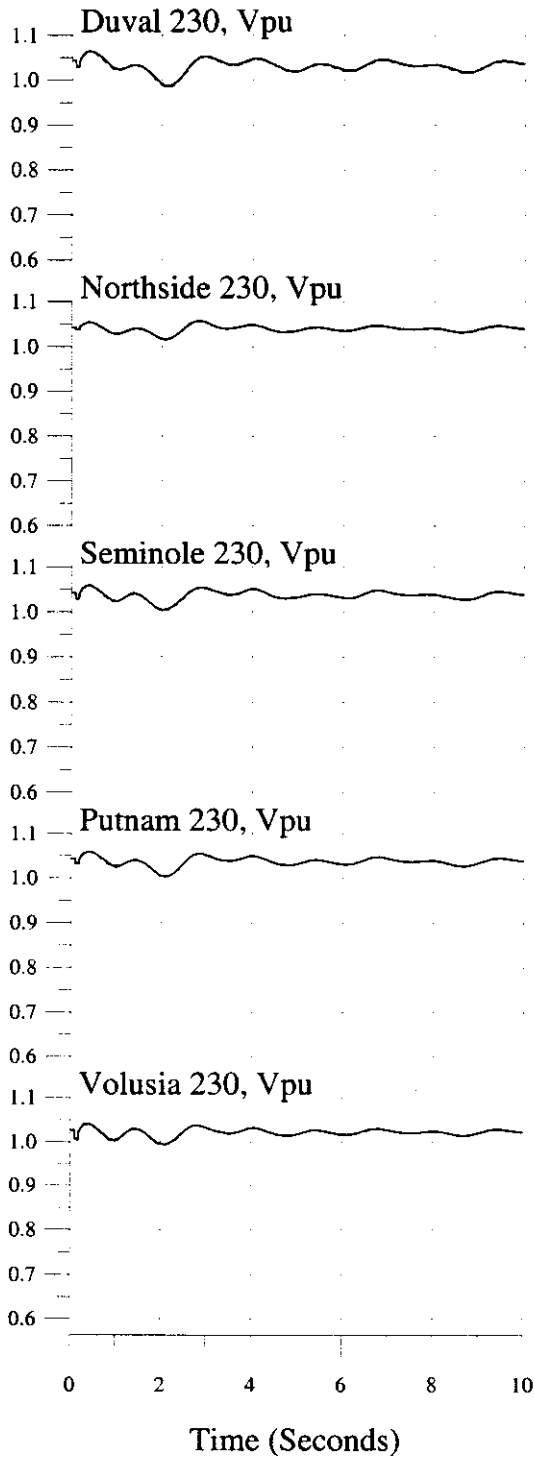
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



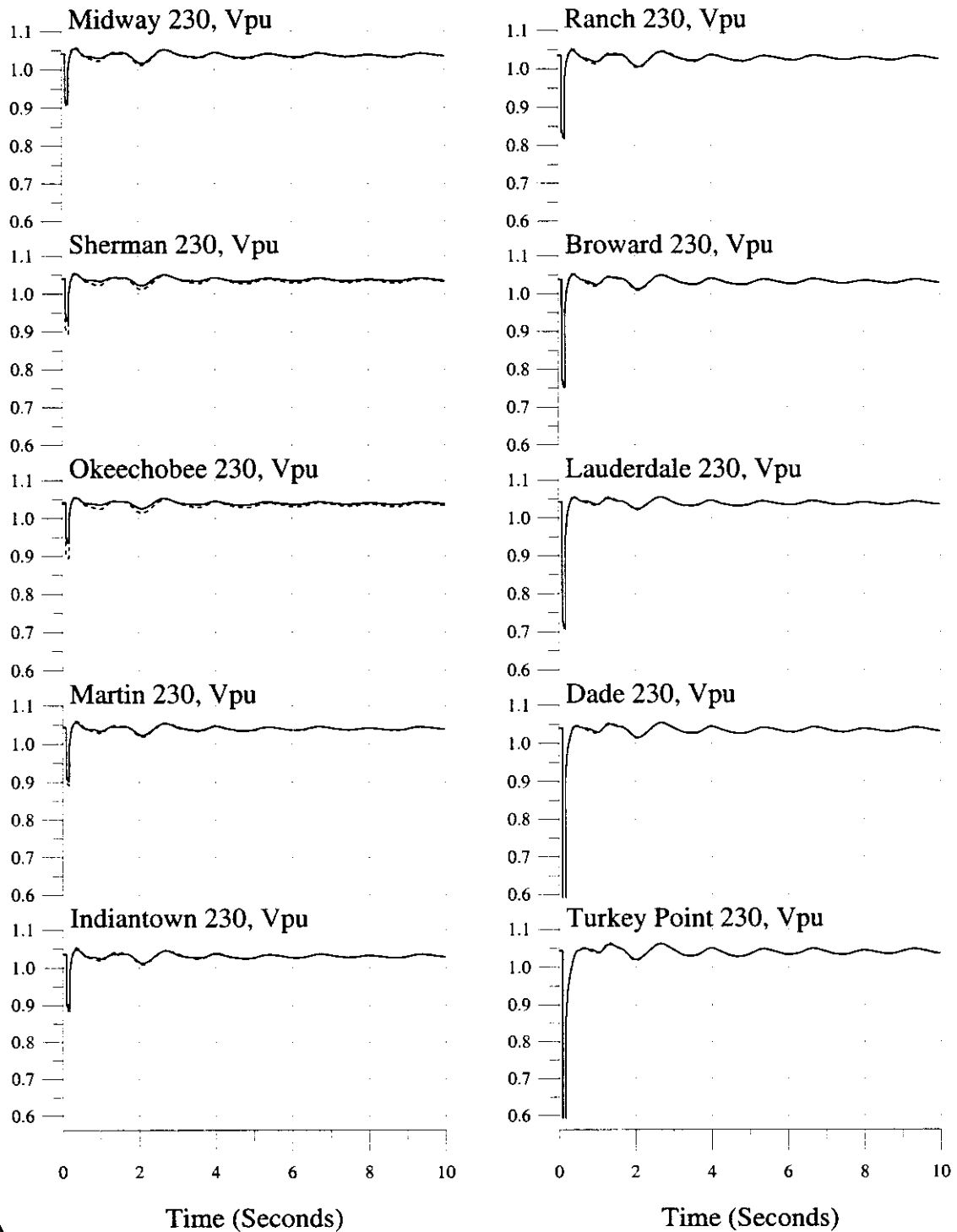
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



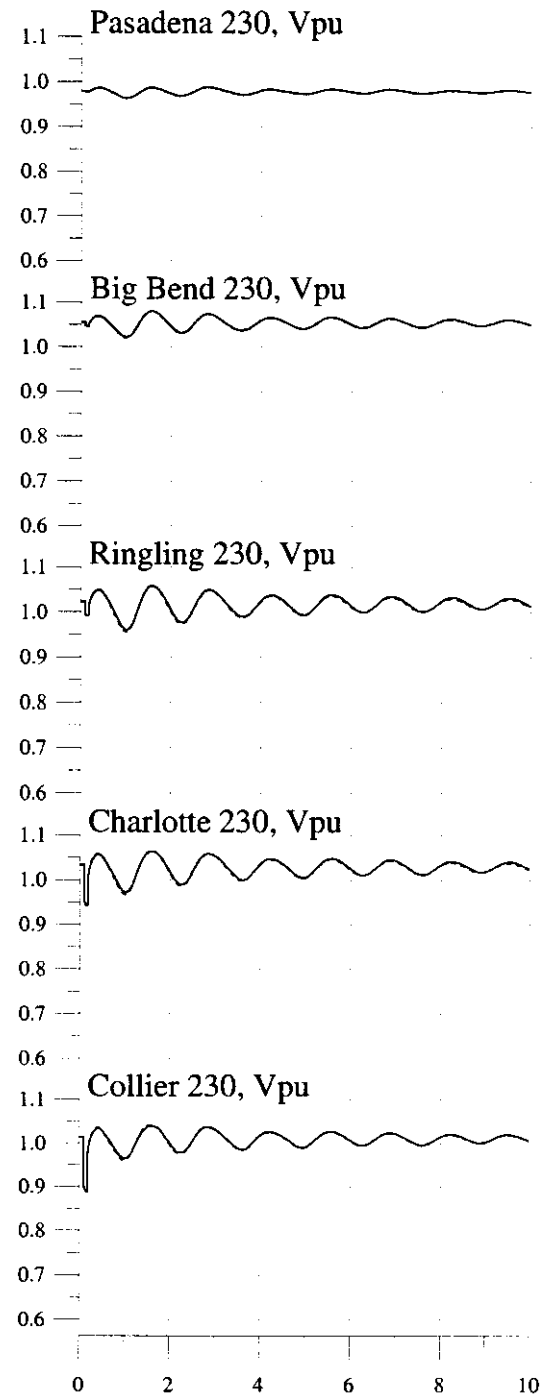
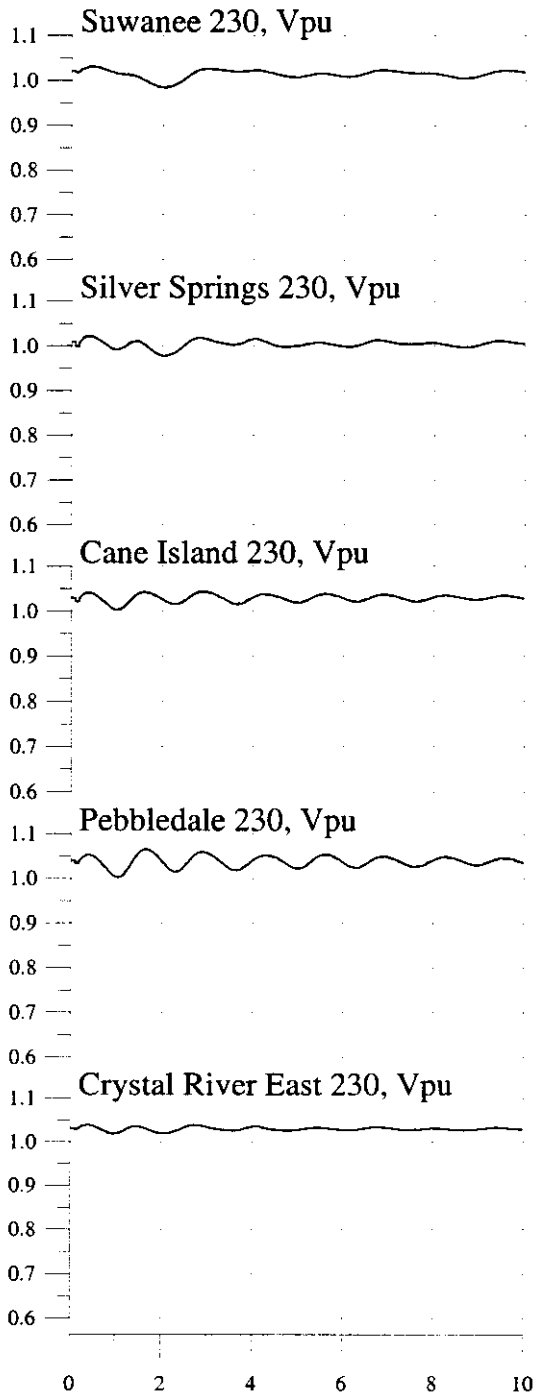
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



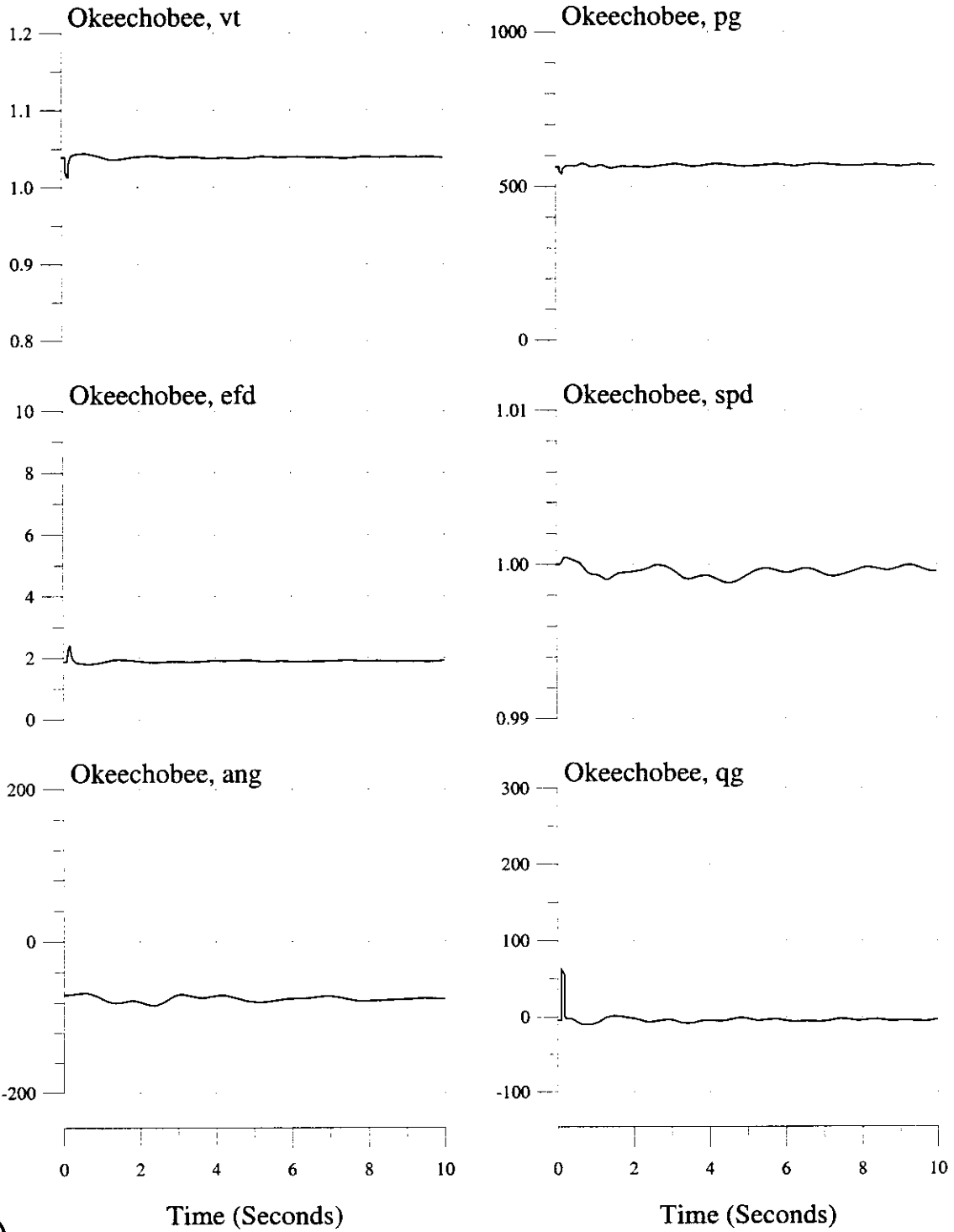
Time (Seconds)

Time (Seconds)



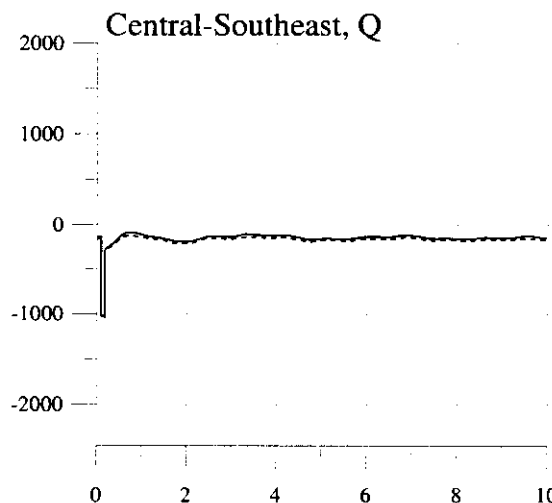
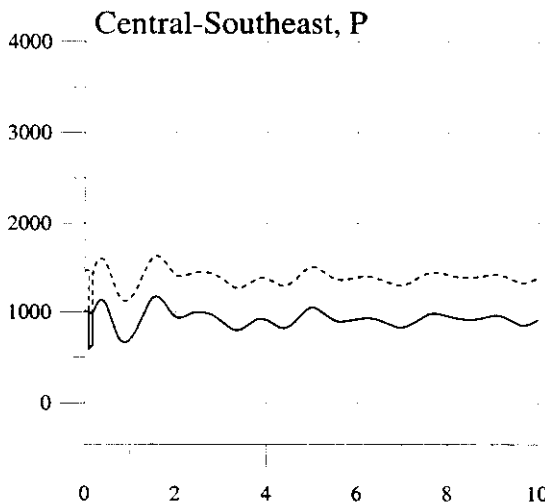
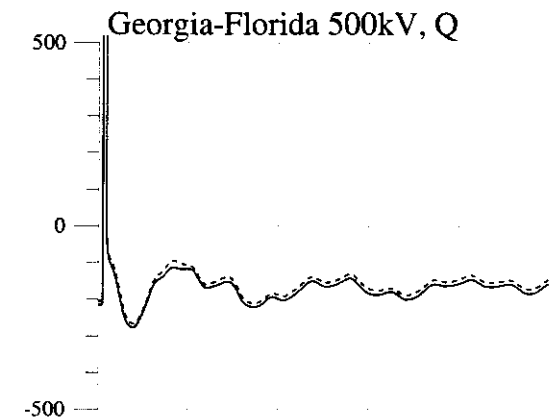
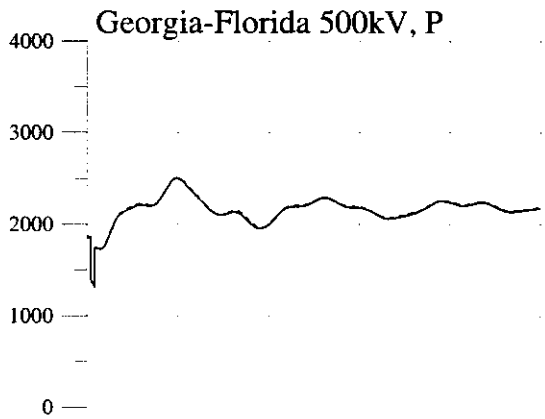
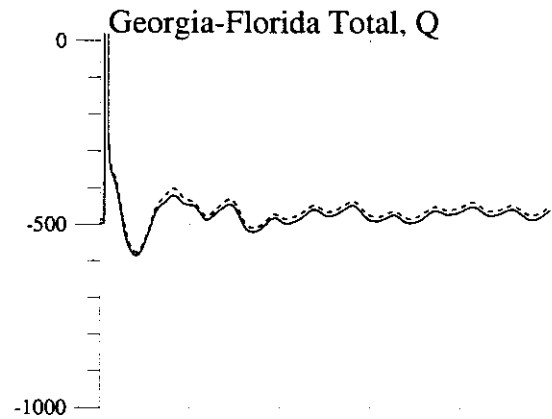
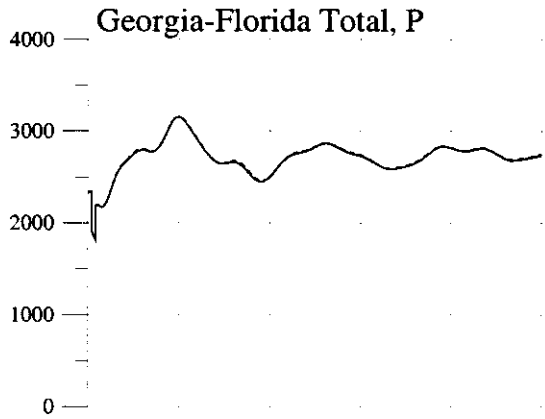
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



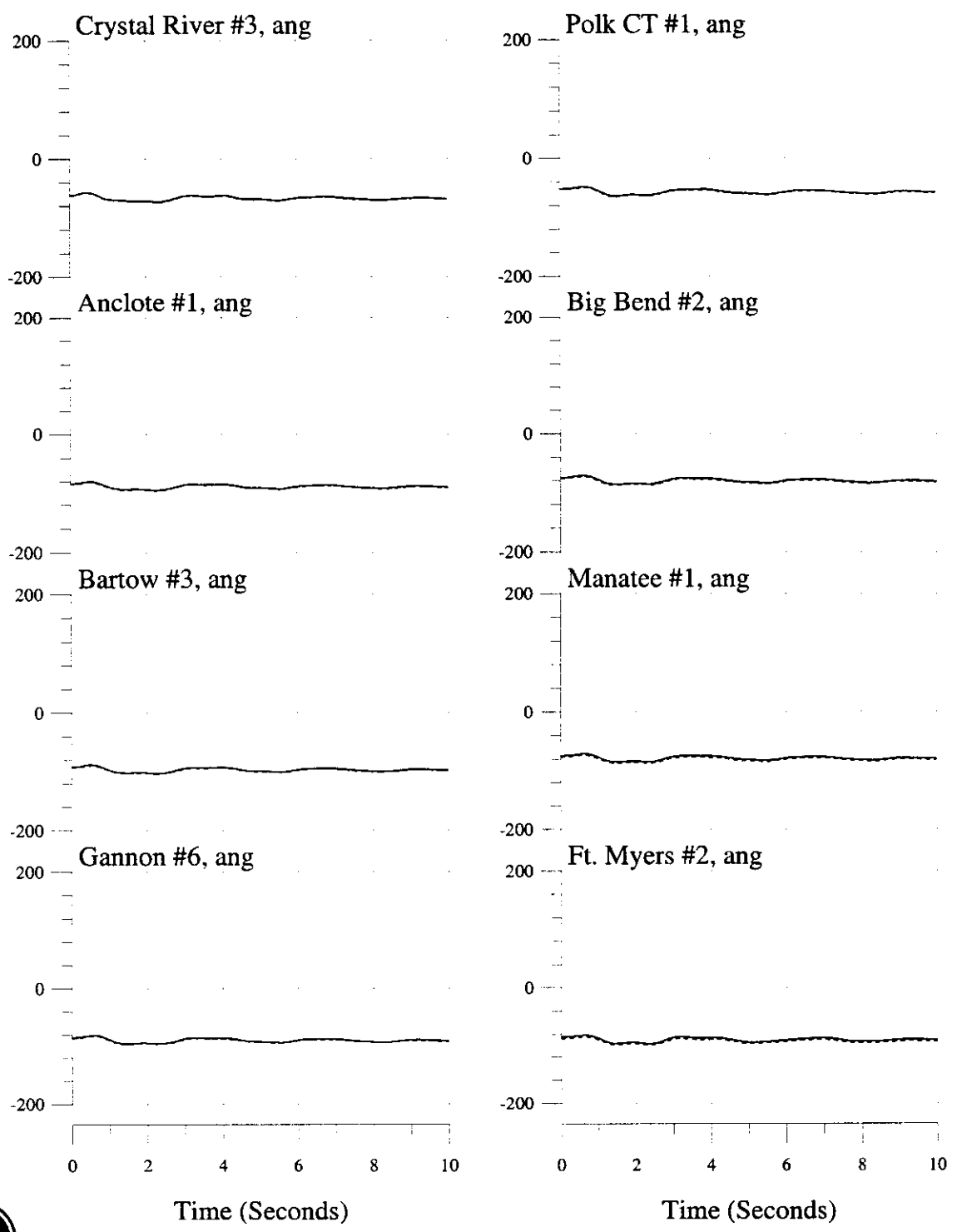
Time (Seconds)

Time (Seconds)



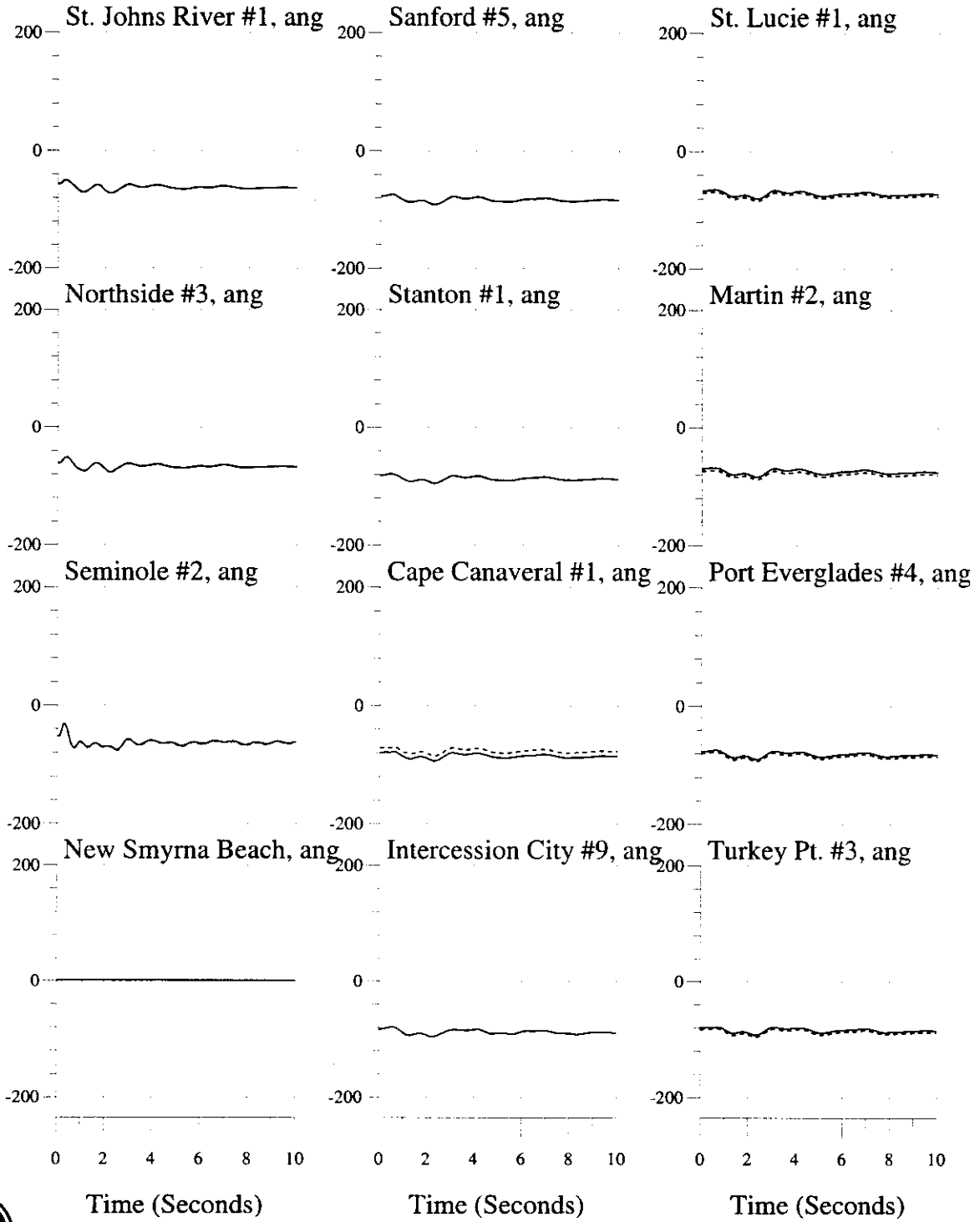


3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System  
 Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



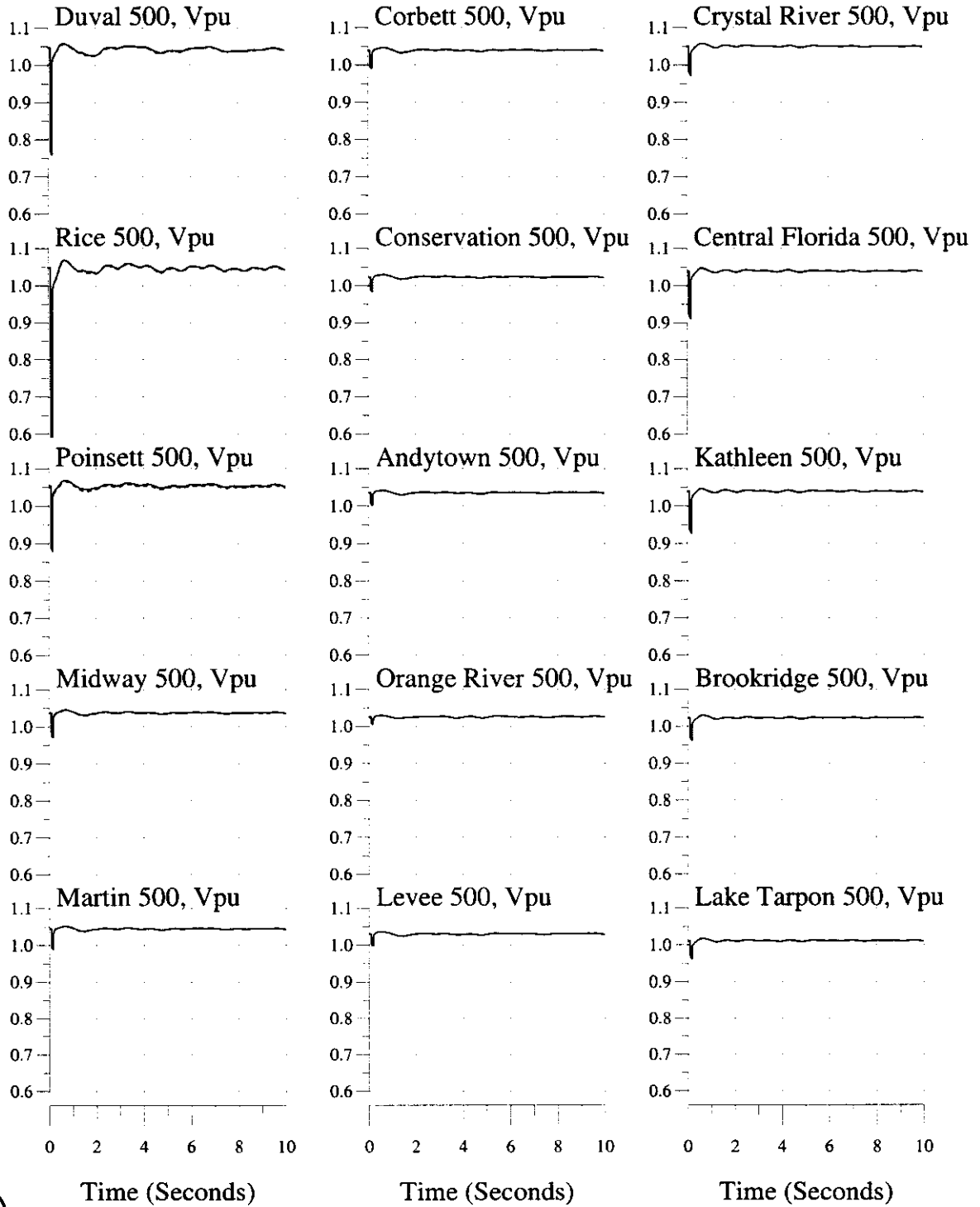
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



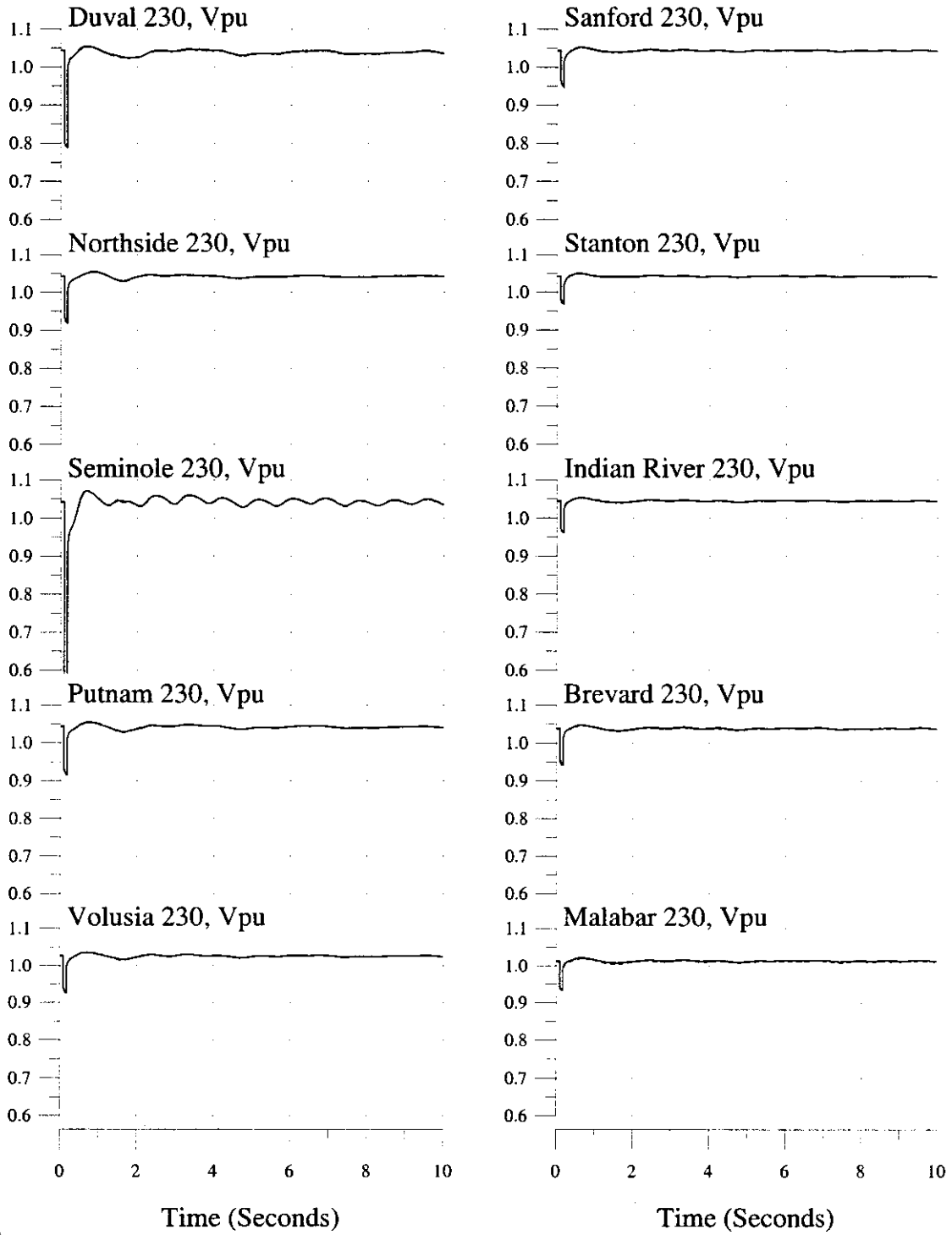
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



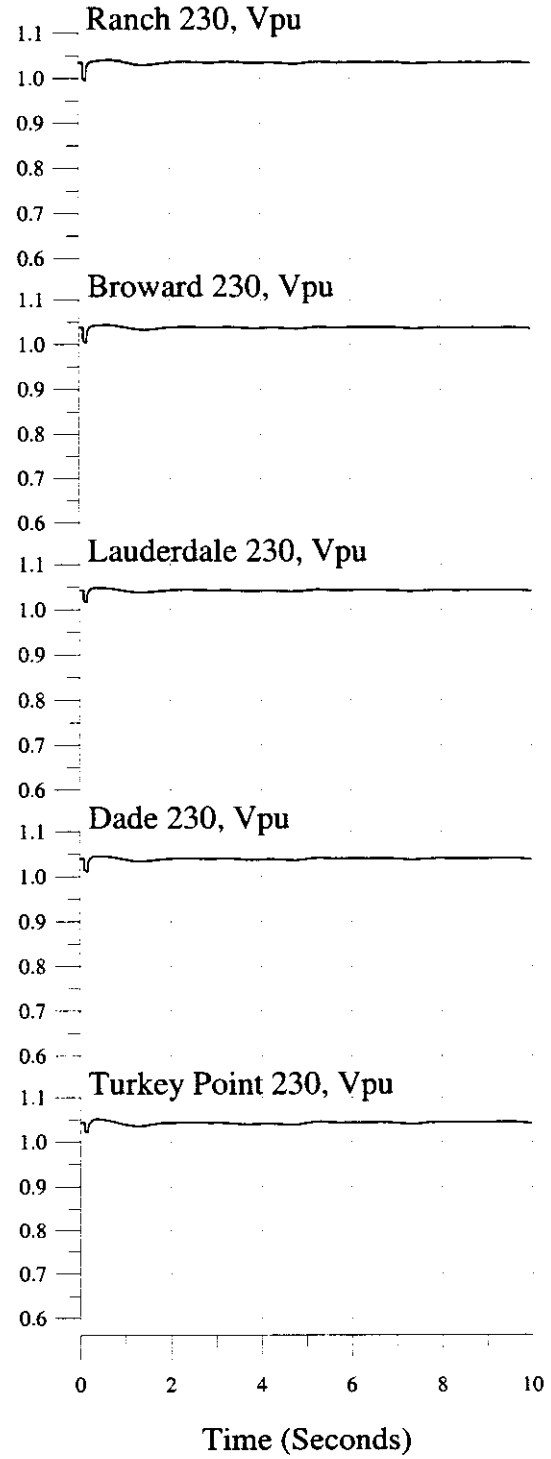
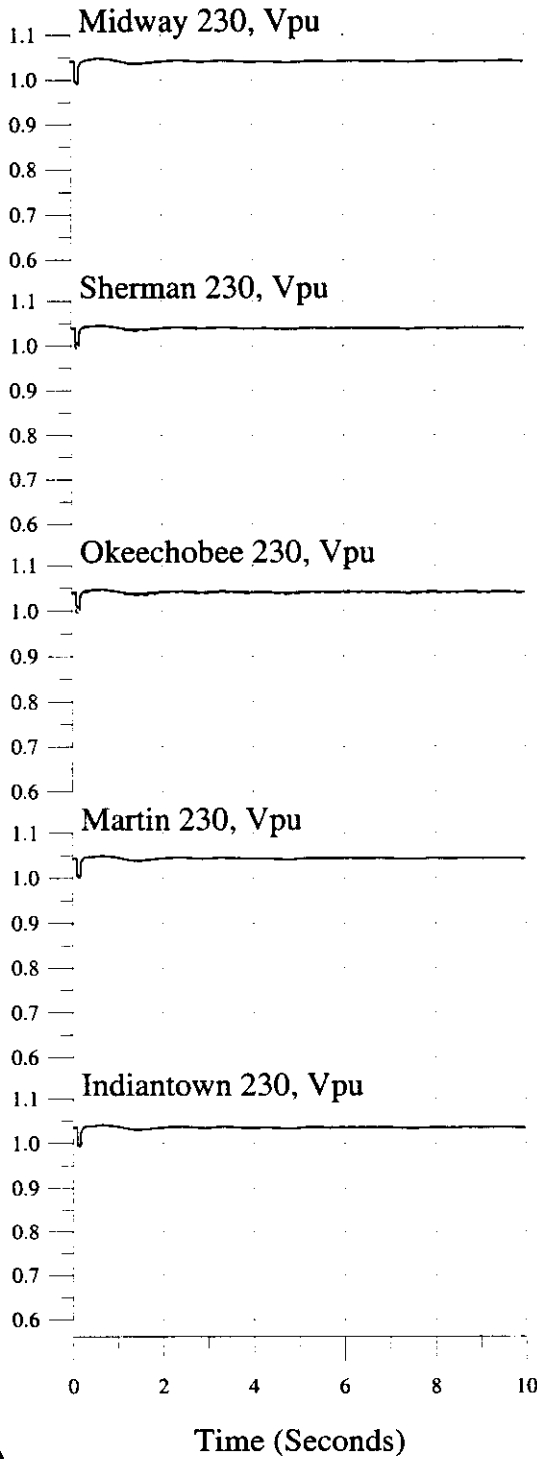
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



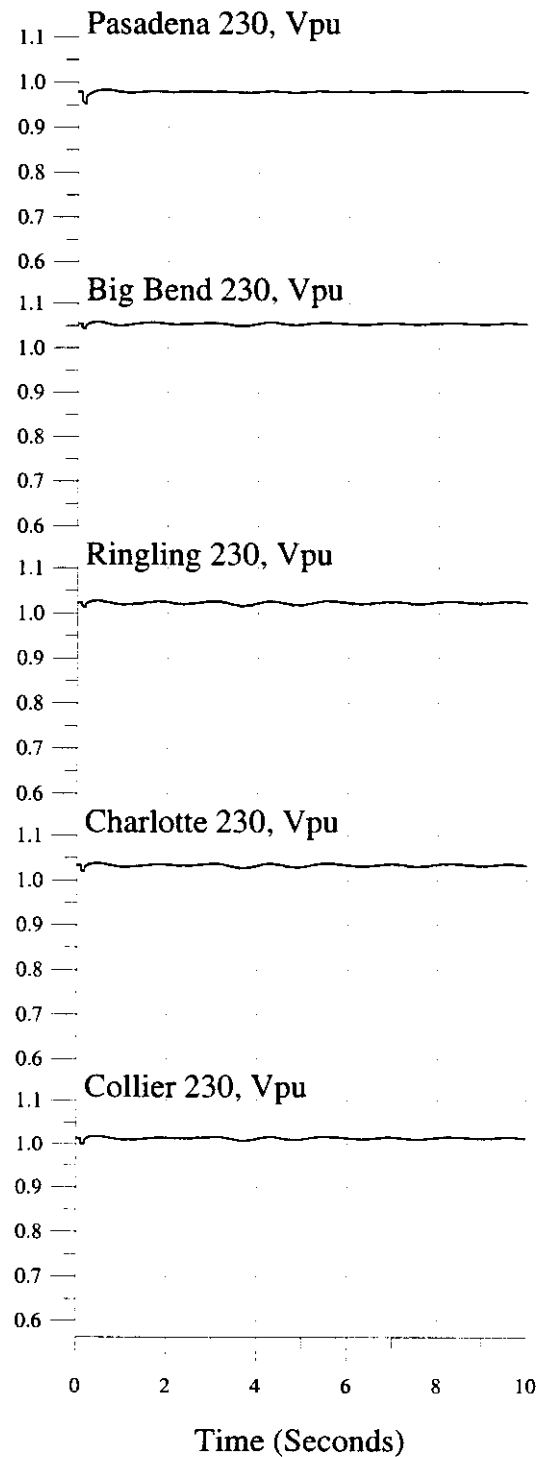
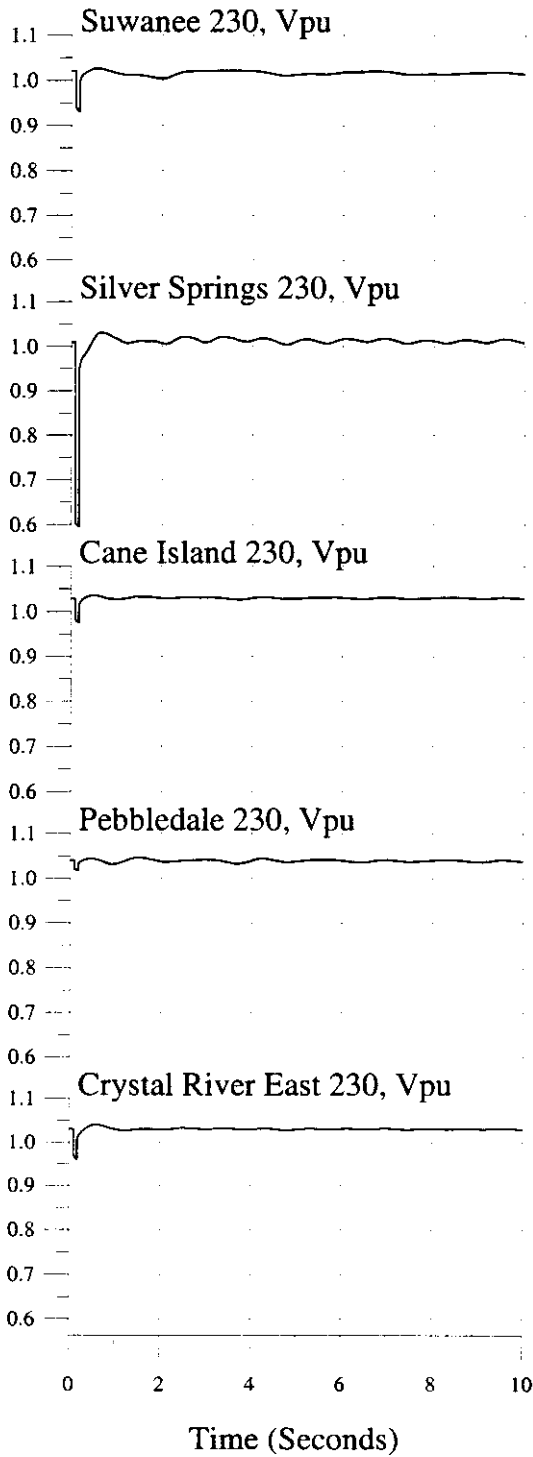
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



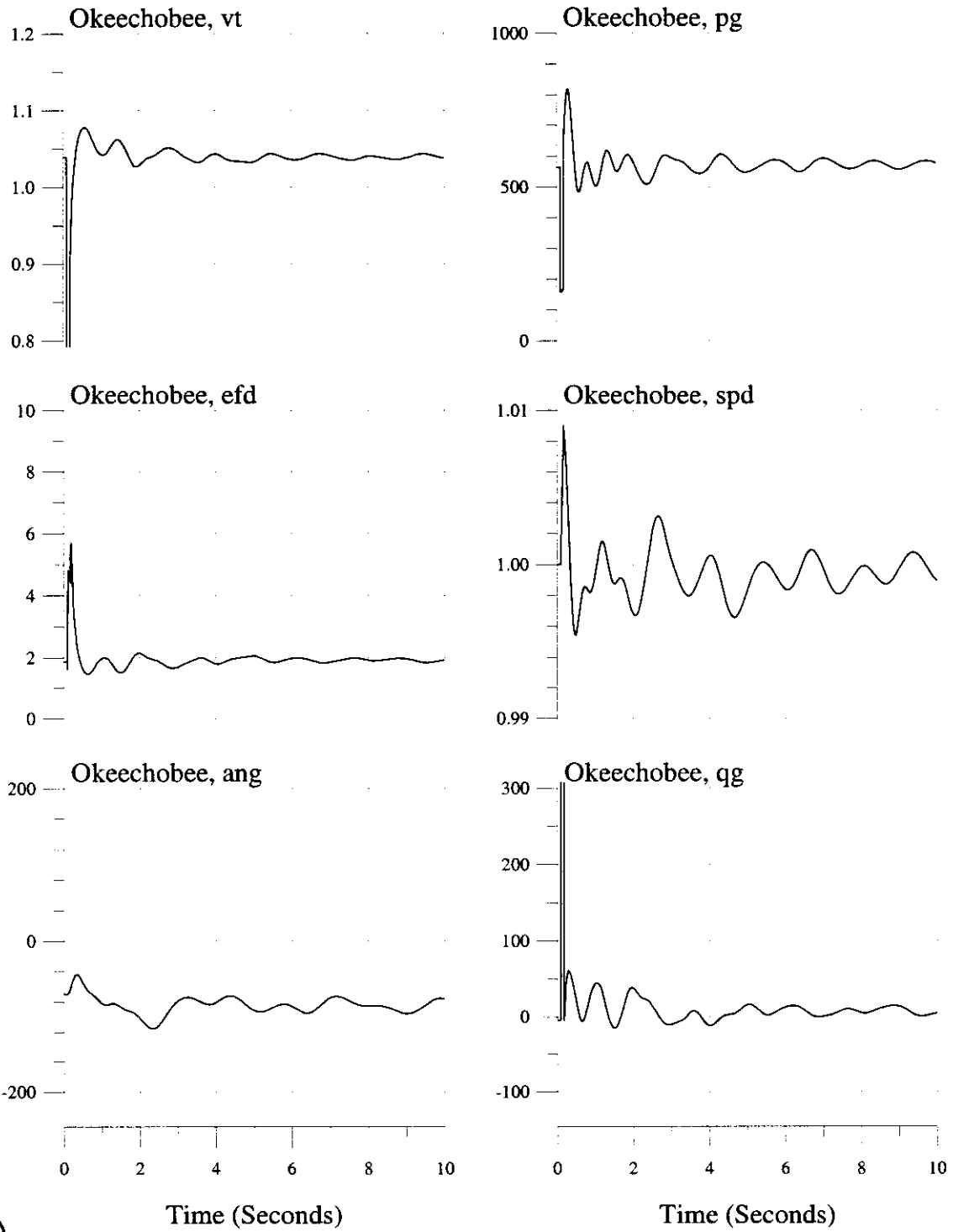
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



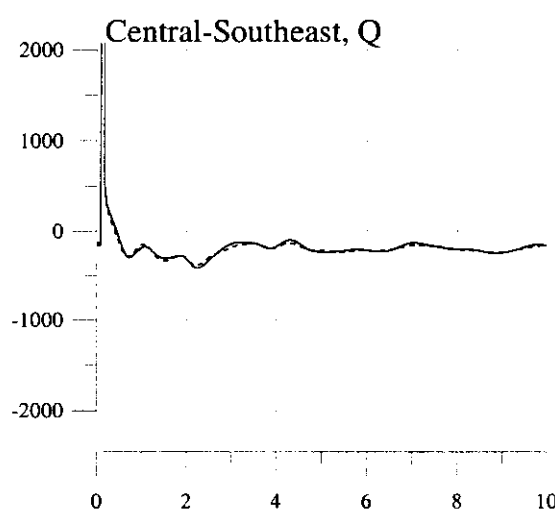
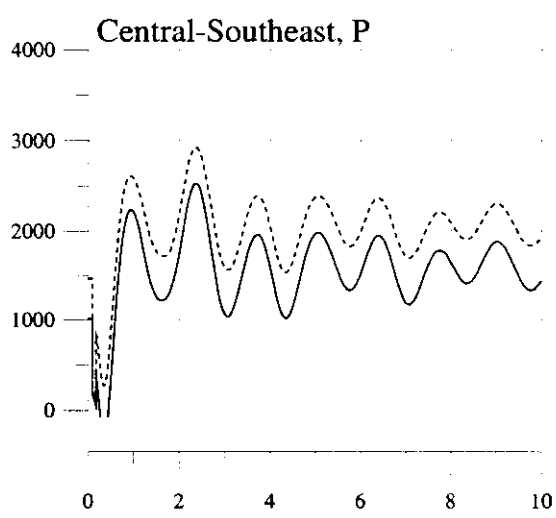
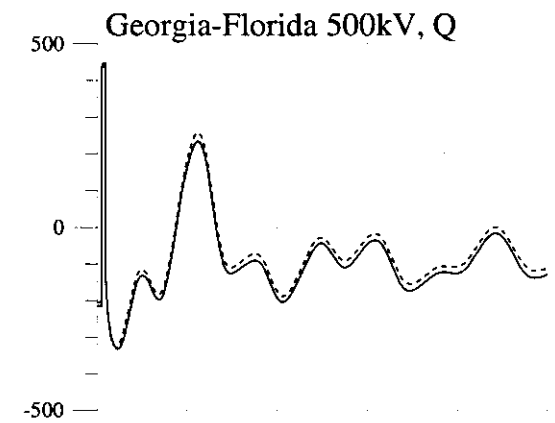
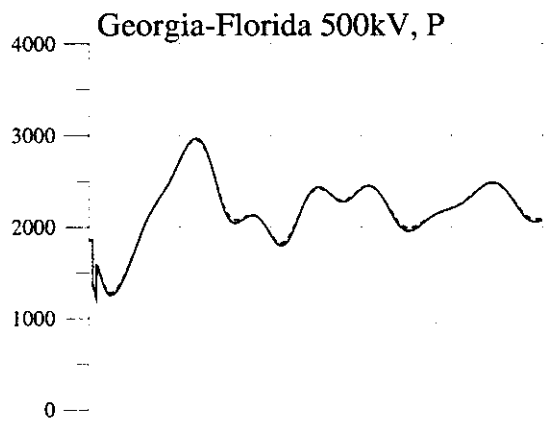
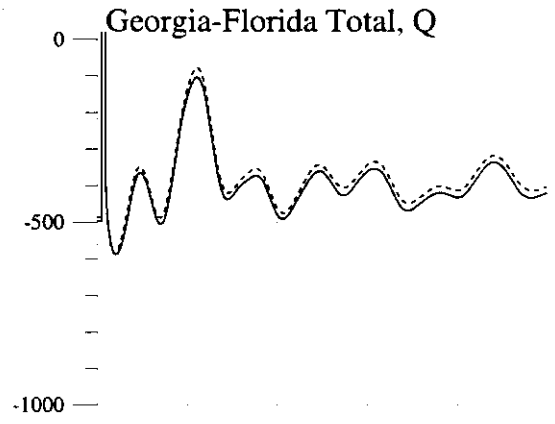
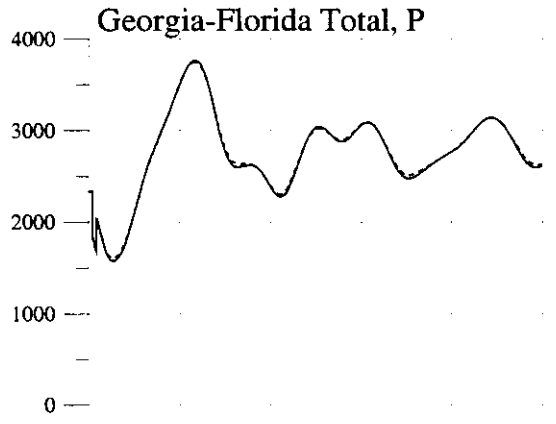
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

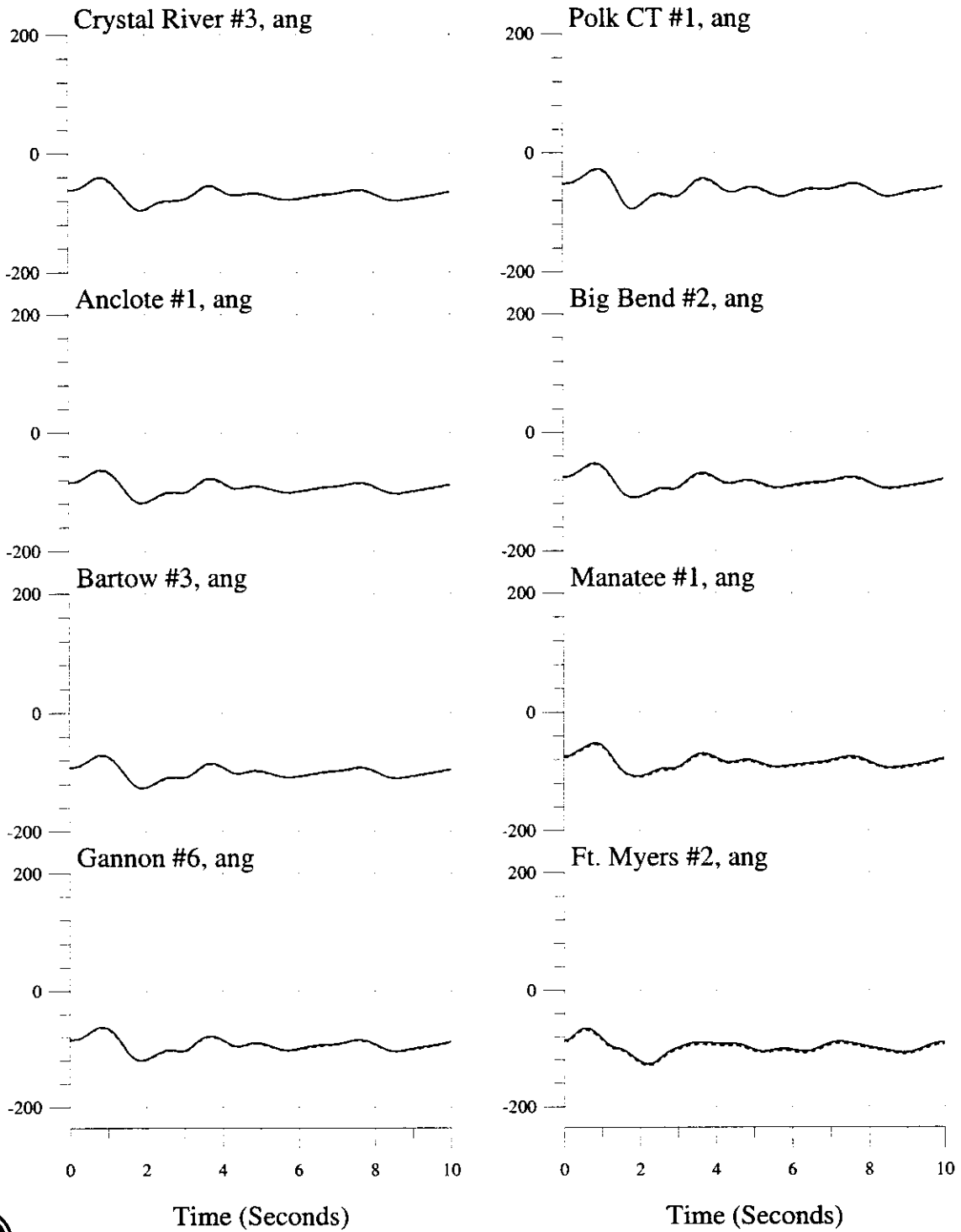
Time (Seconds)





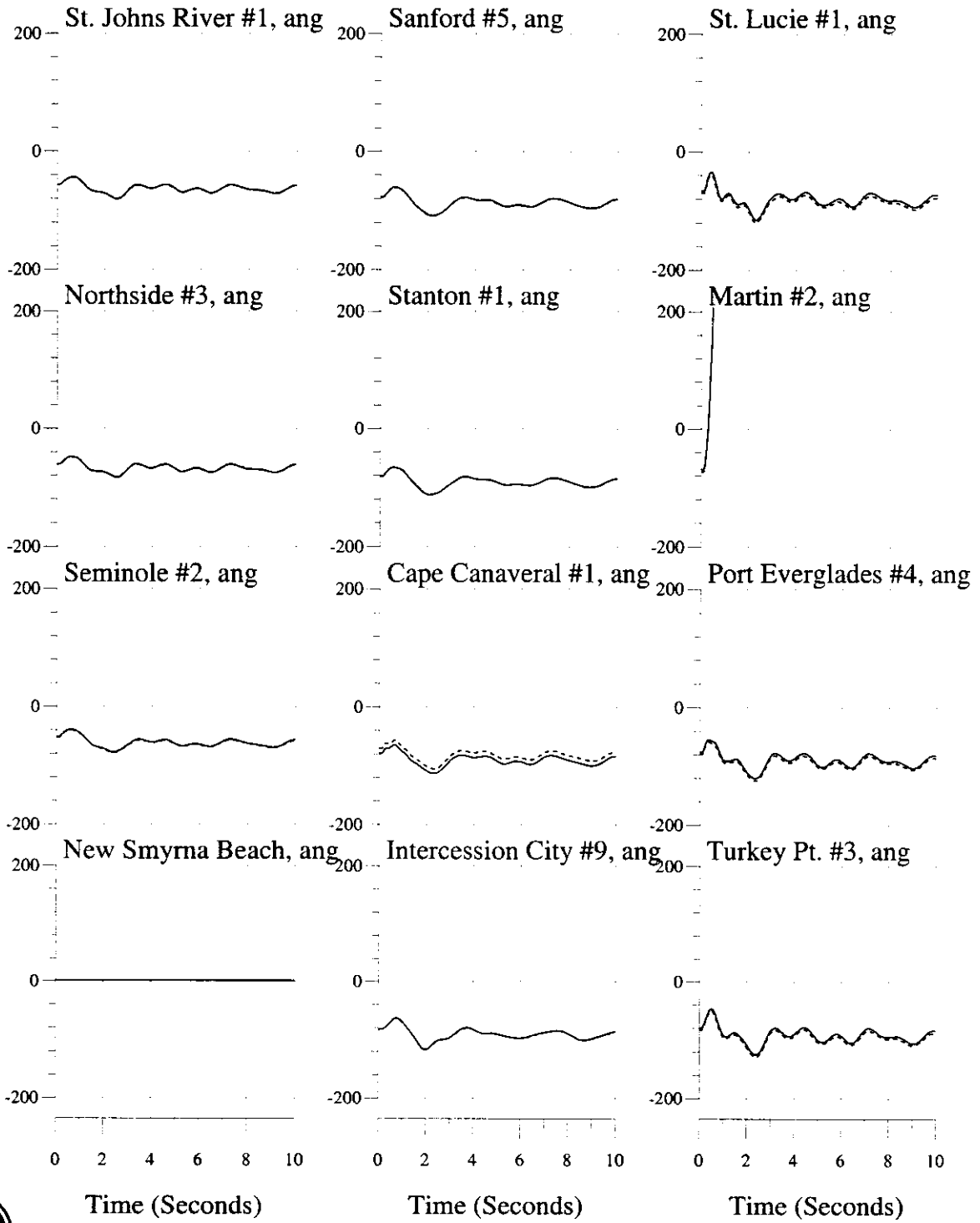
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



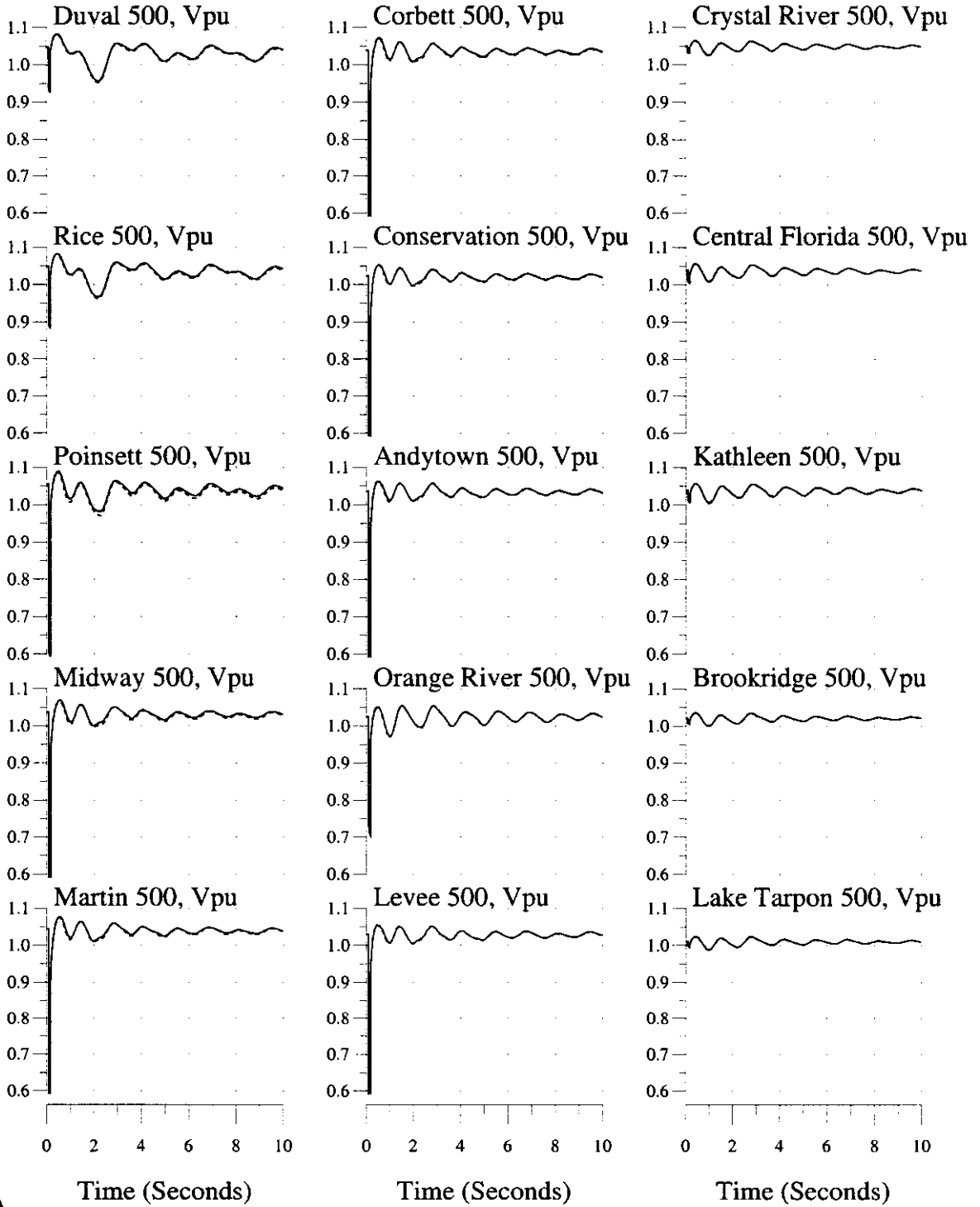
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



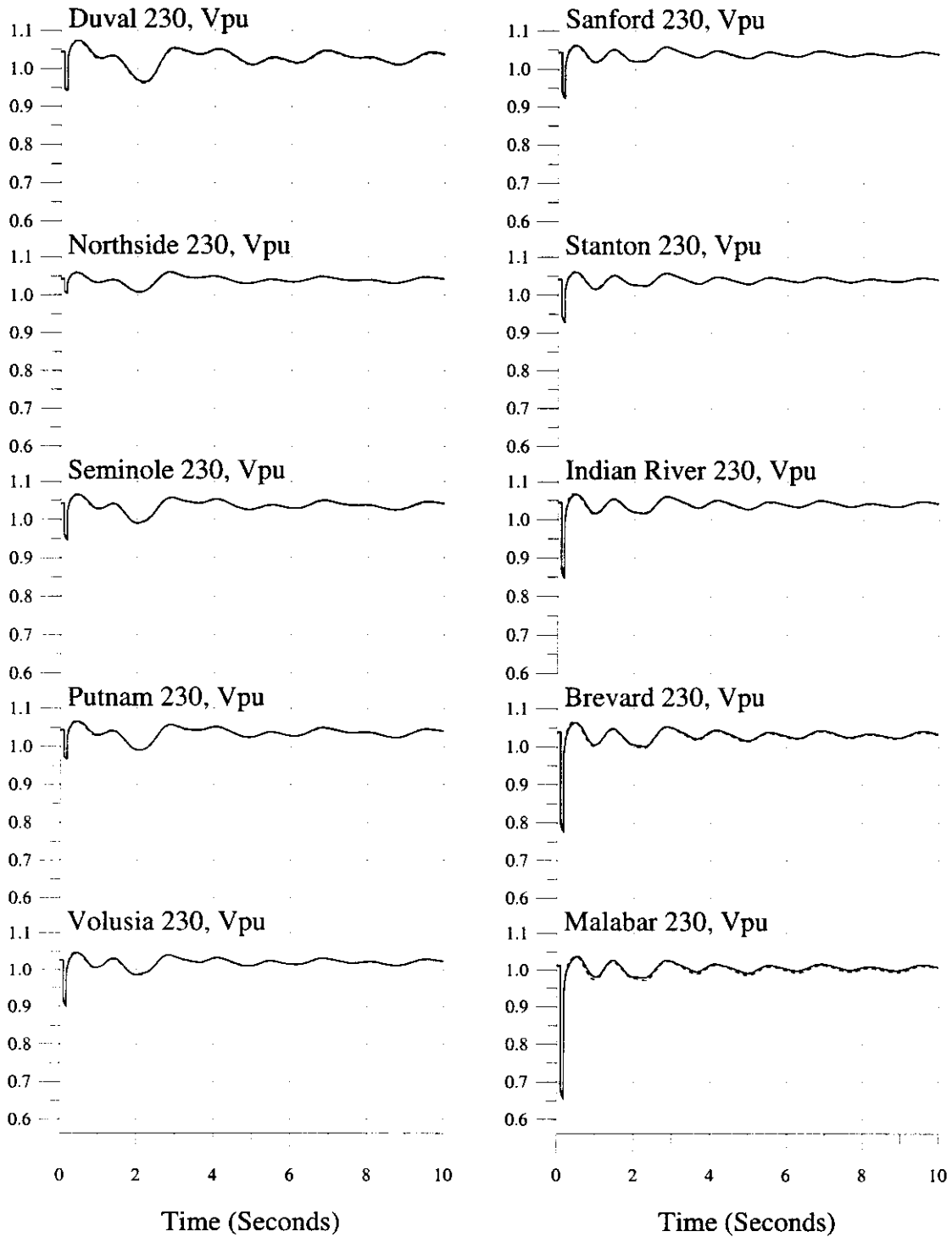
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



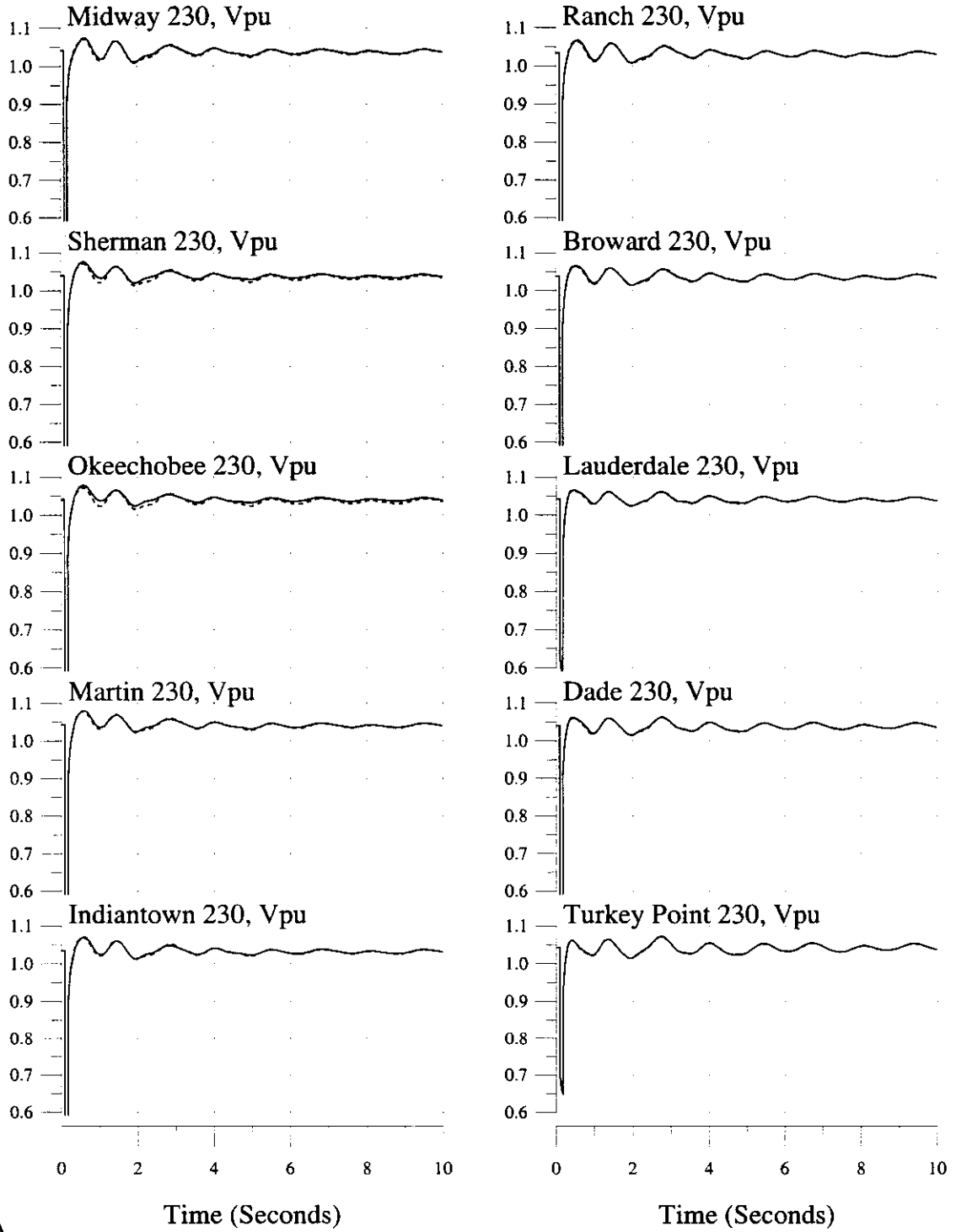
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



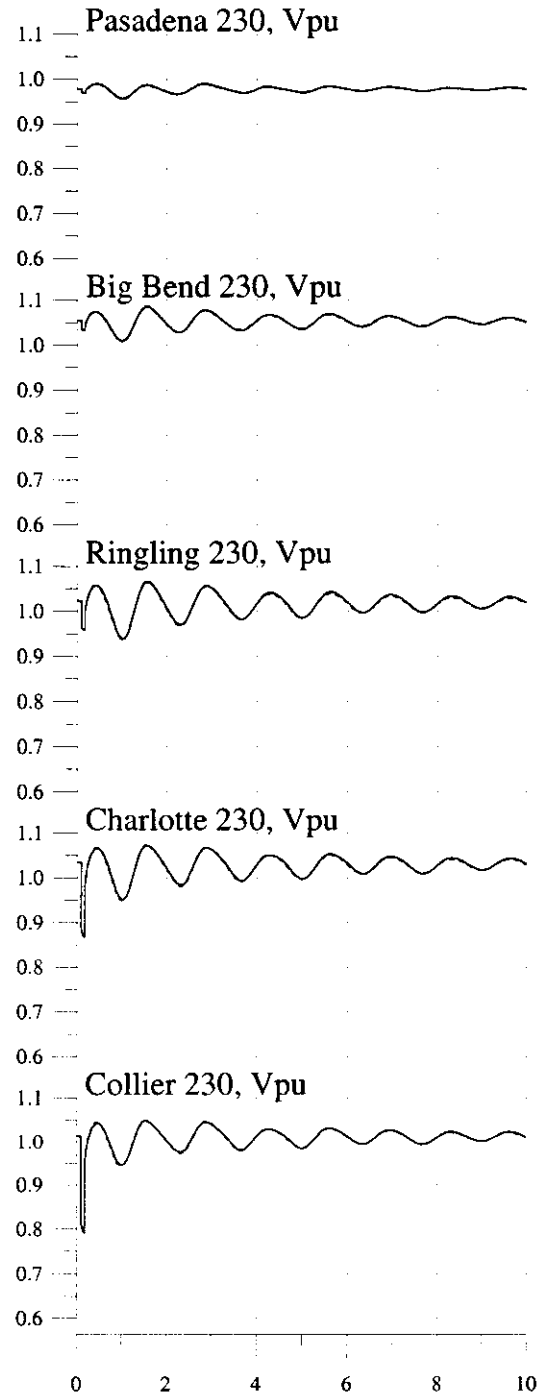
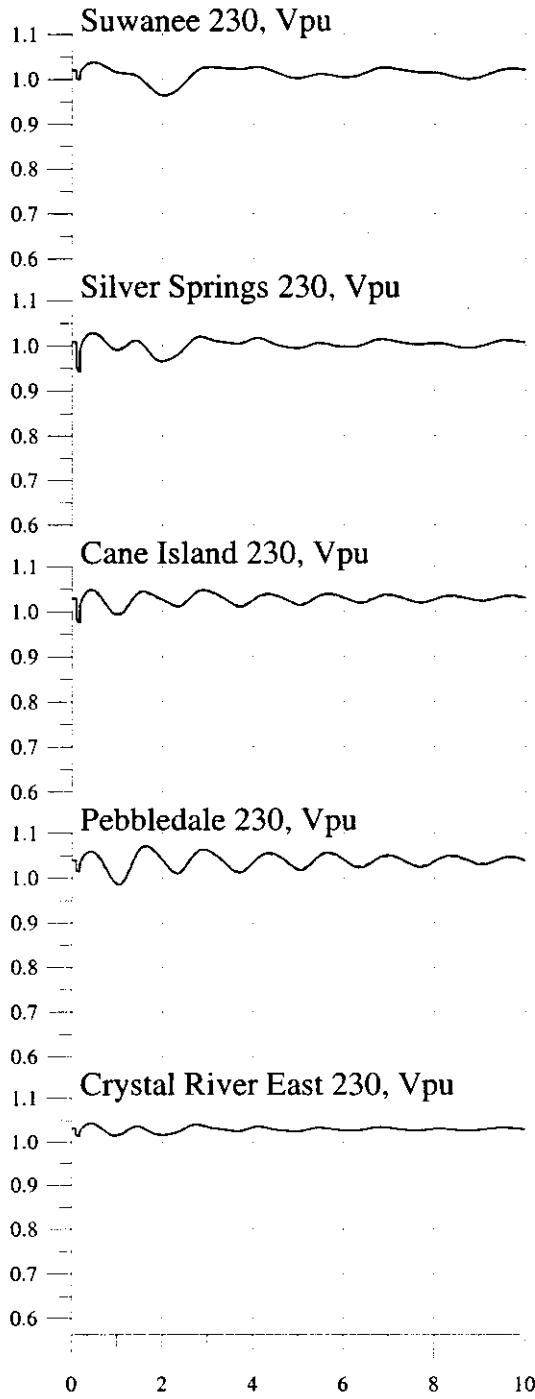
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



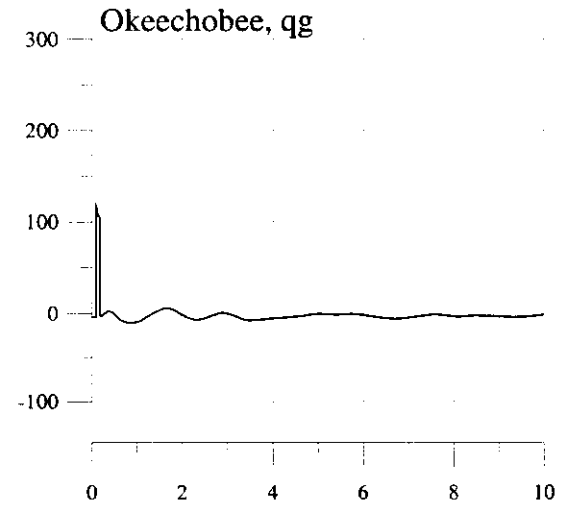
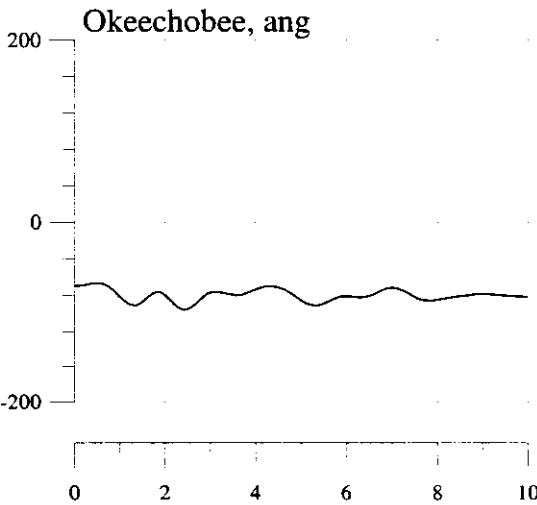
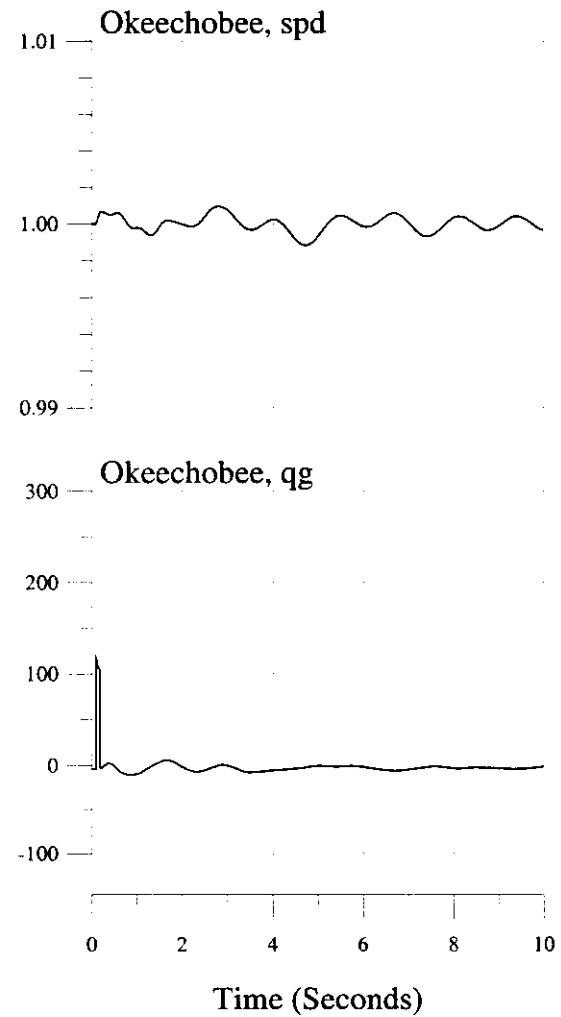
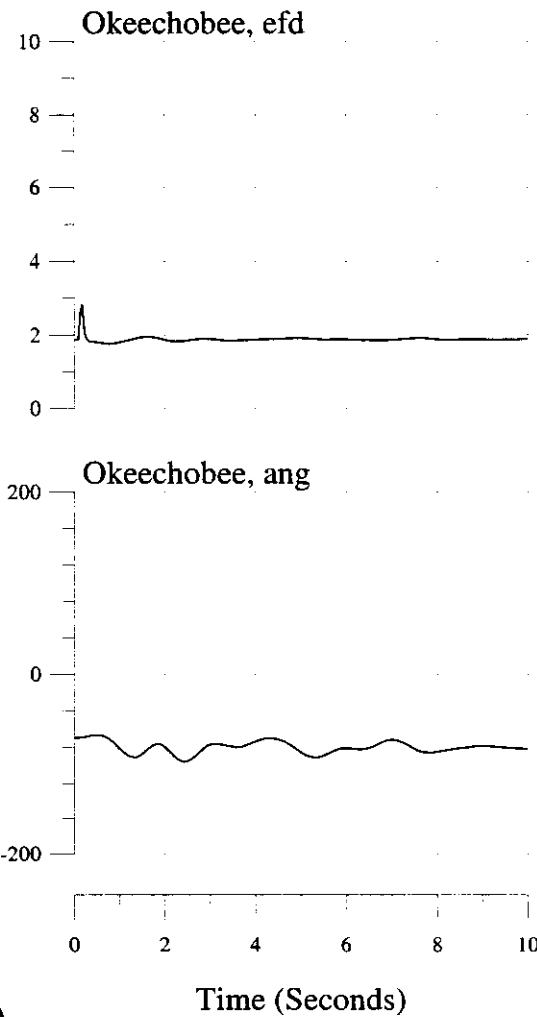
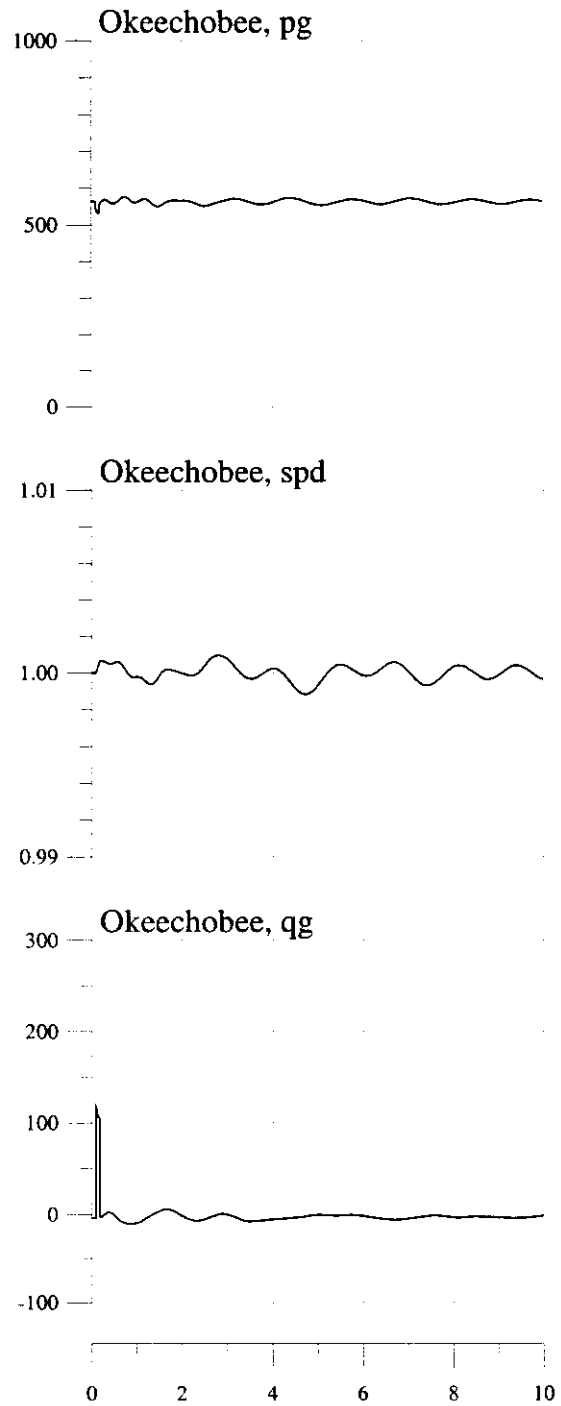
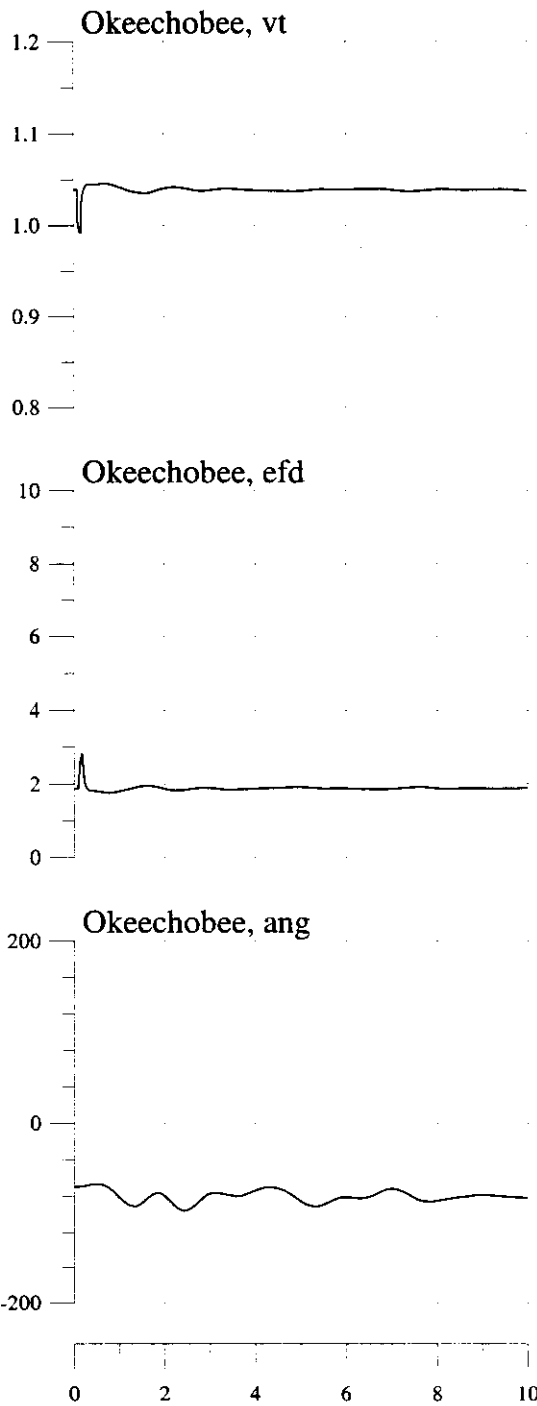
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



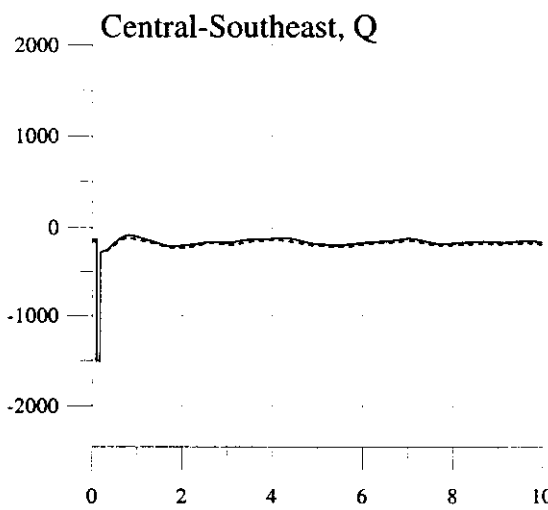
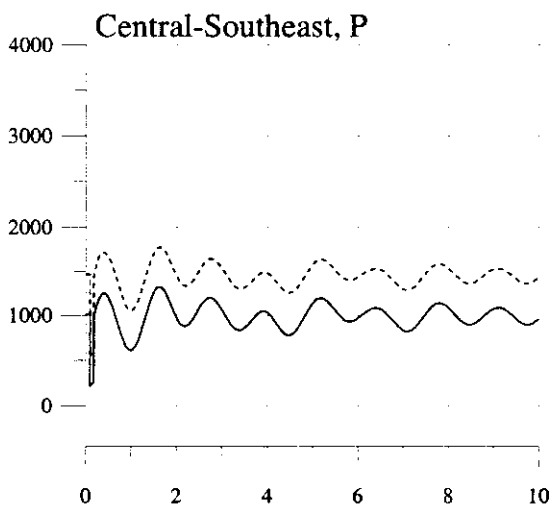
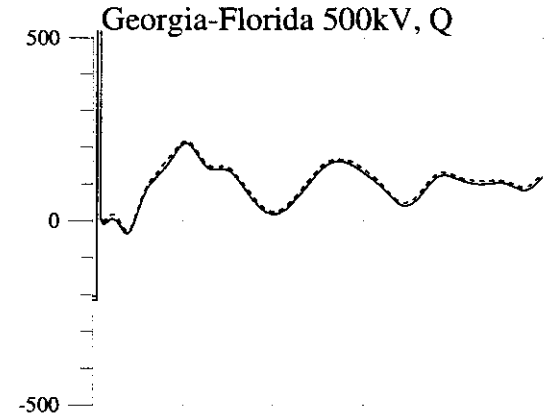
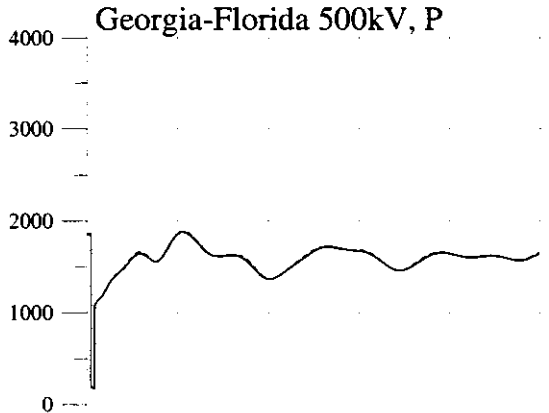
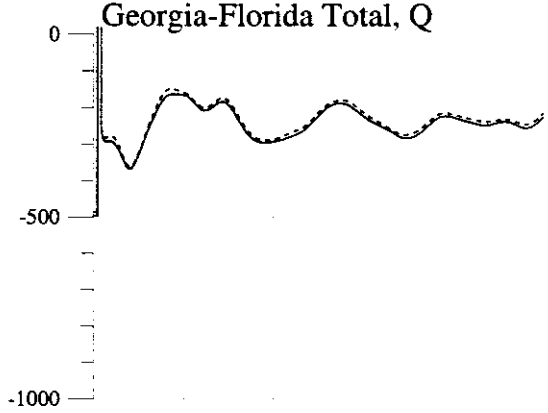
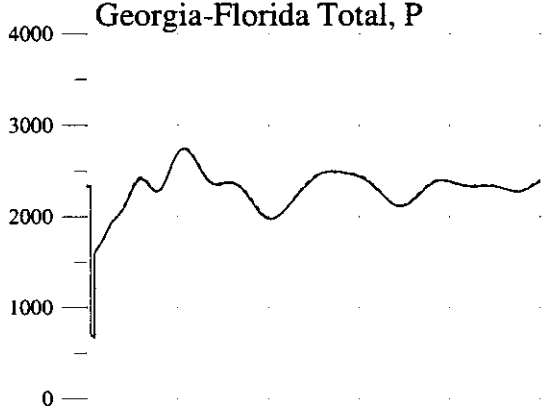
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

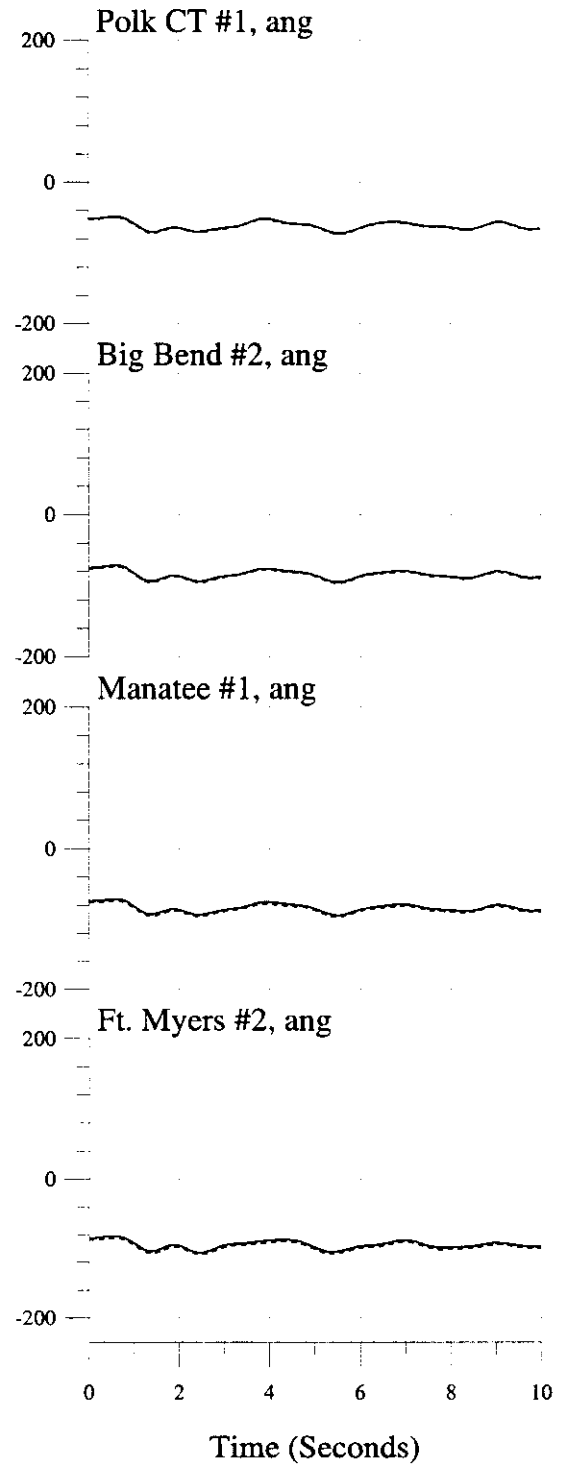
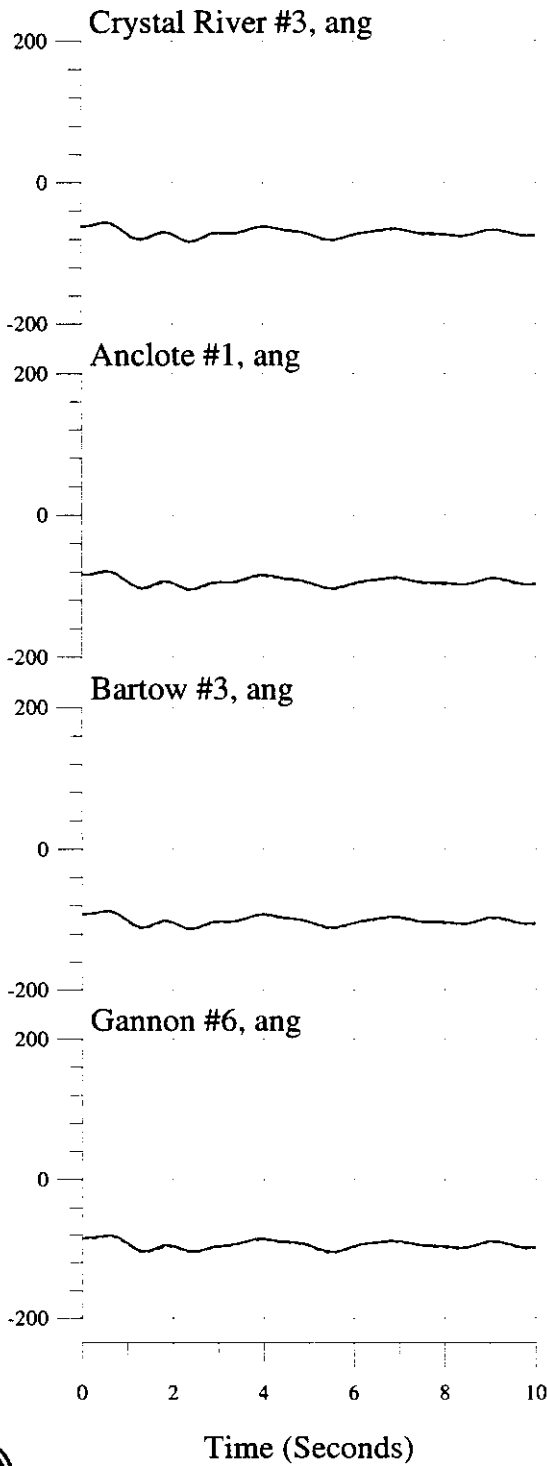
Time (Seconds)





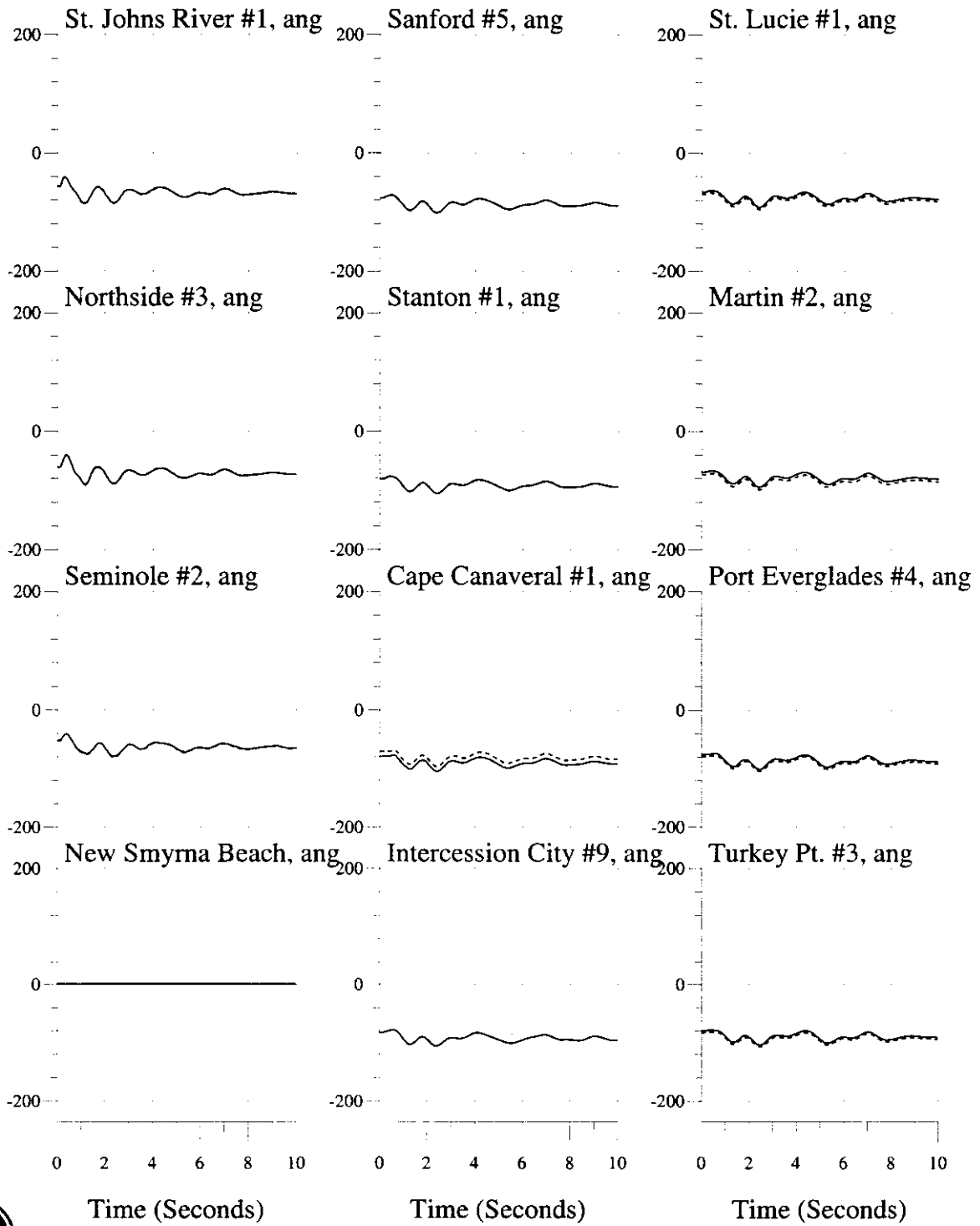
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



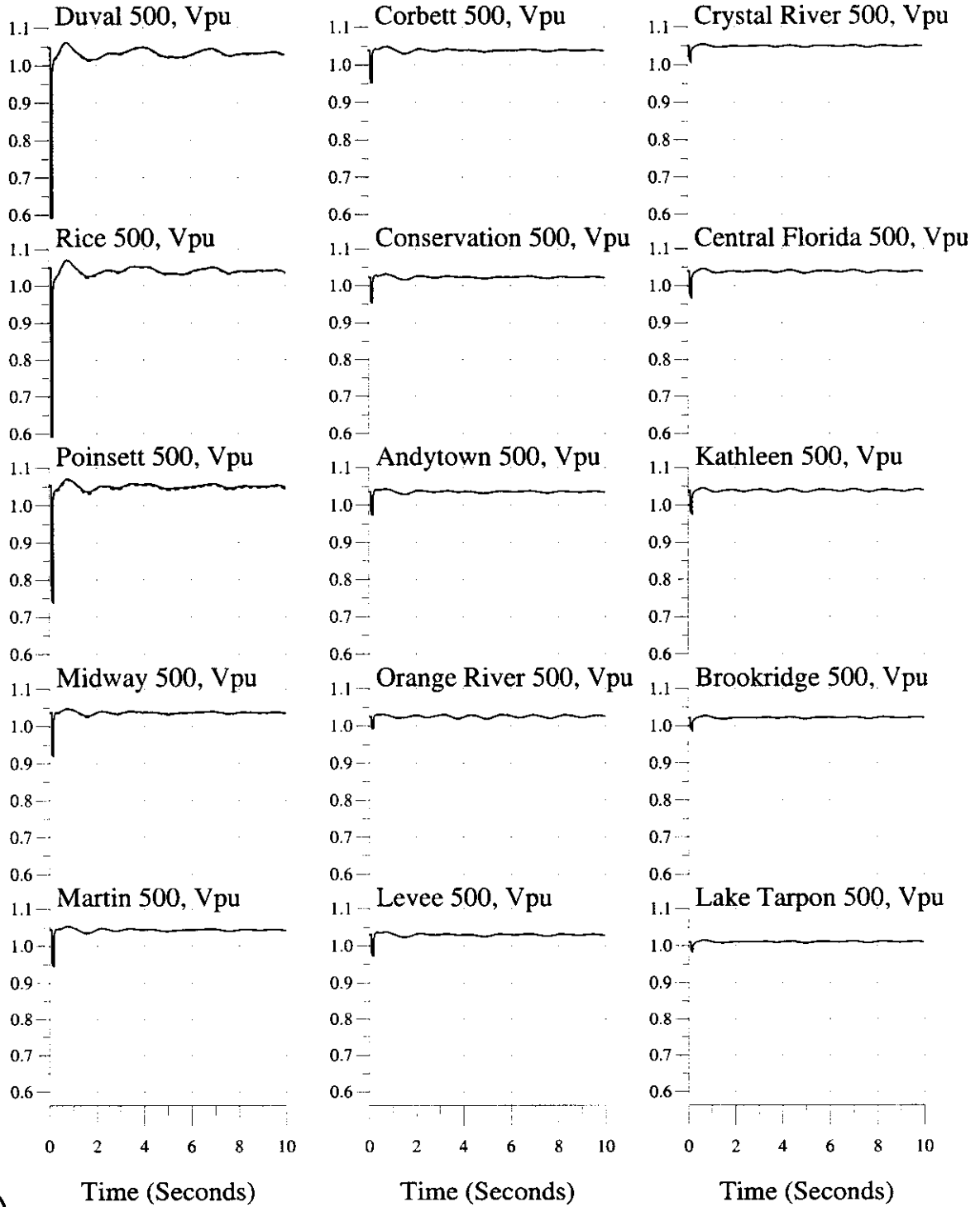
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



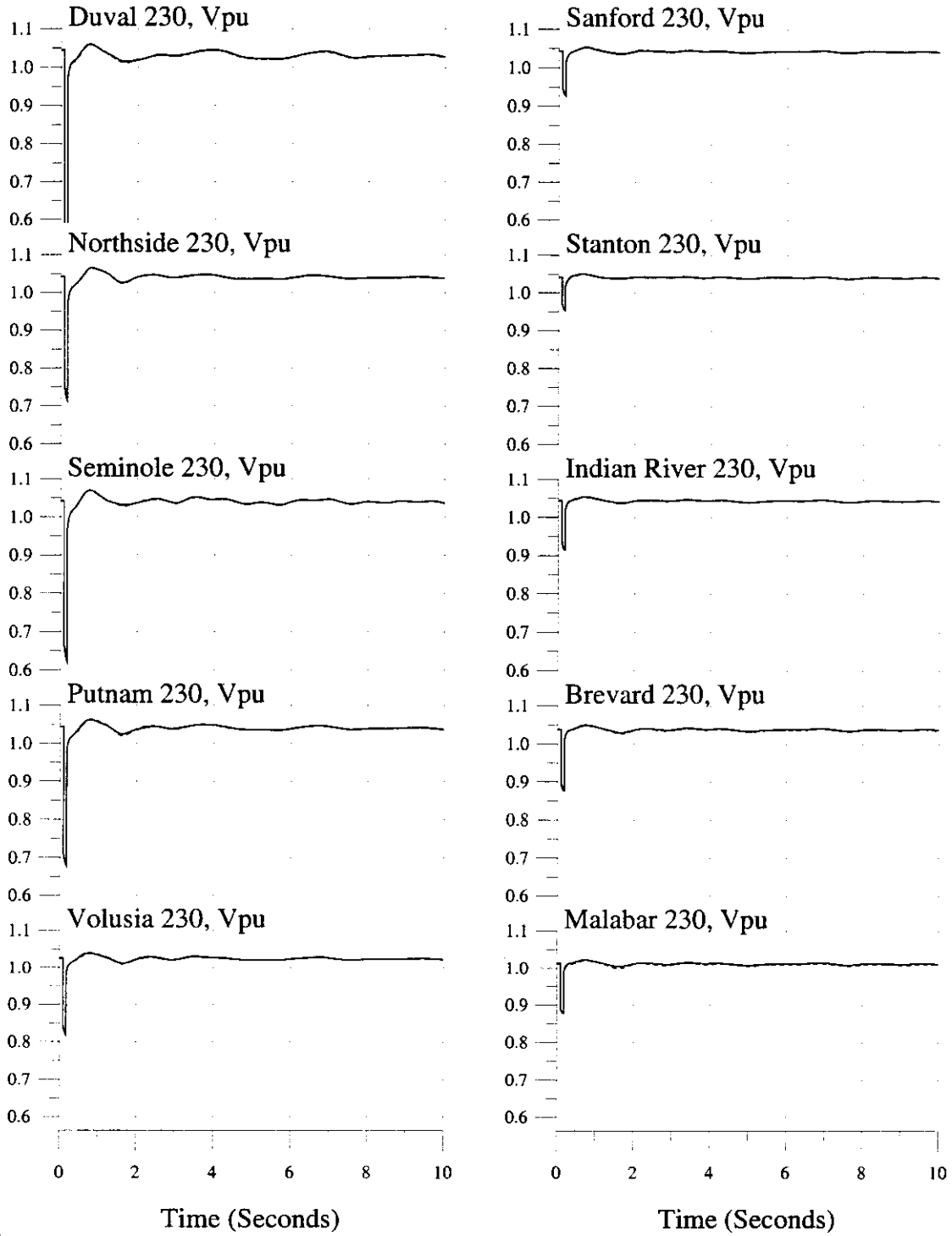
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



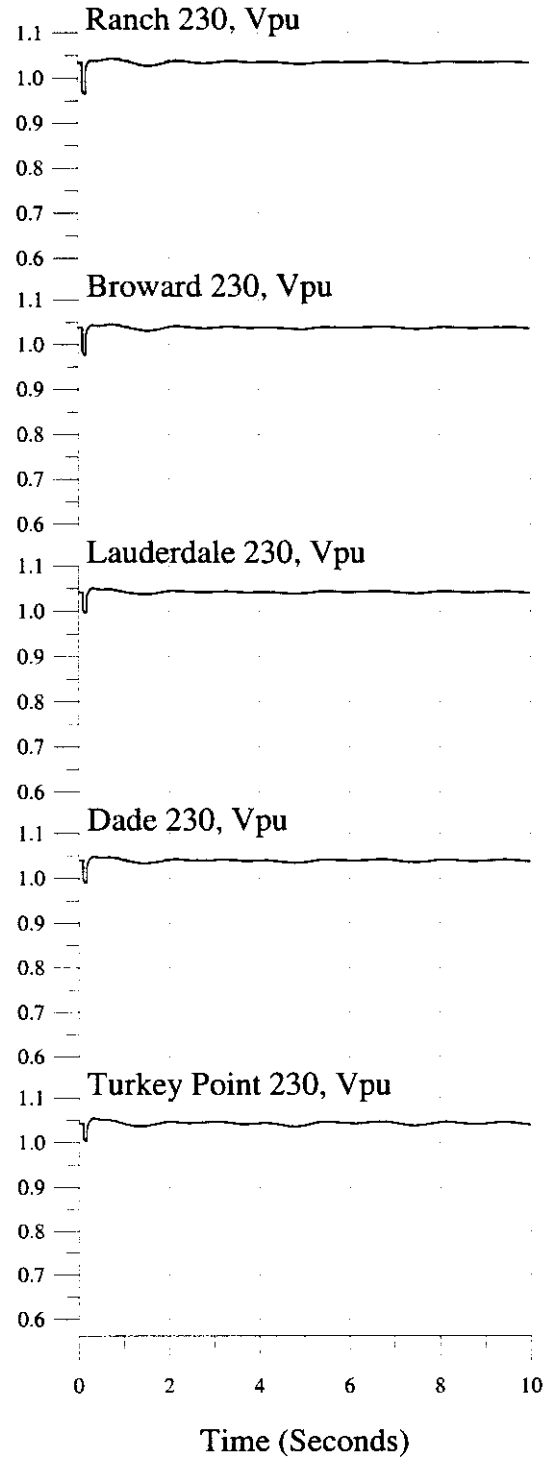
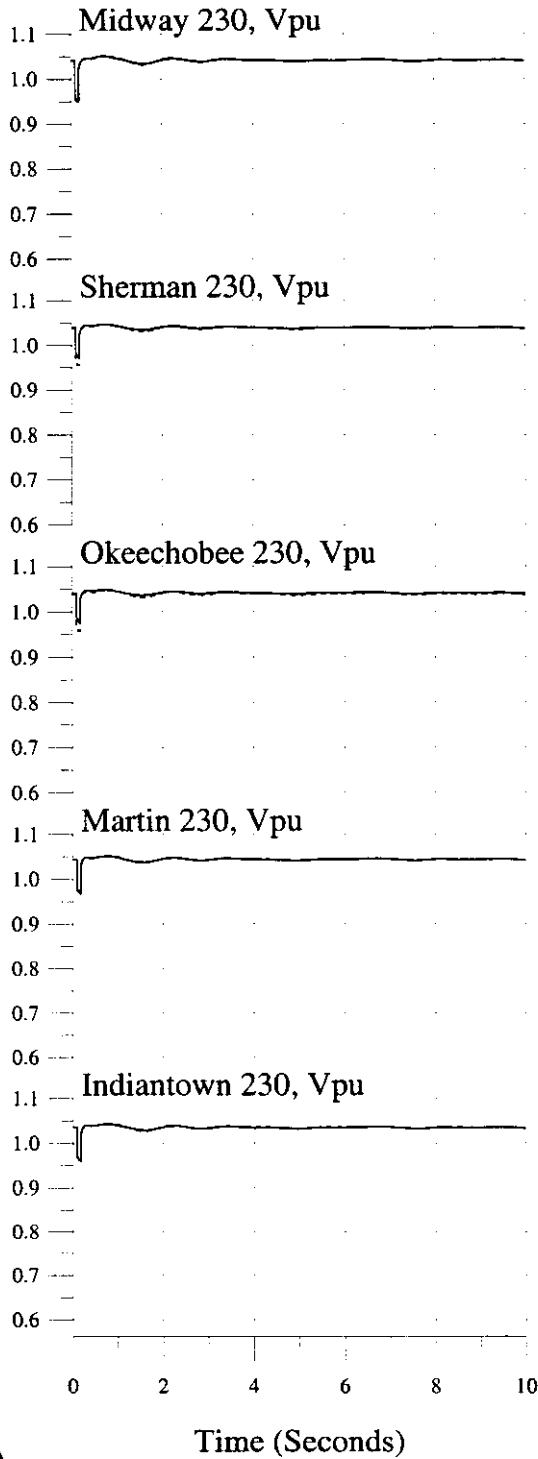
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



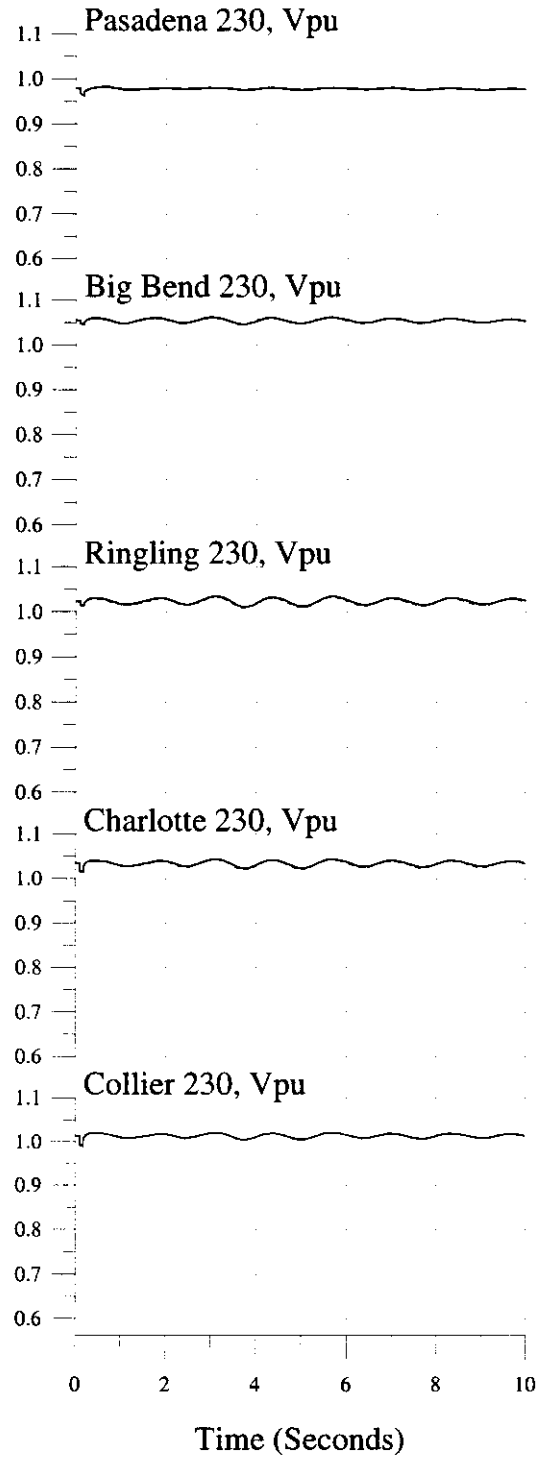
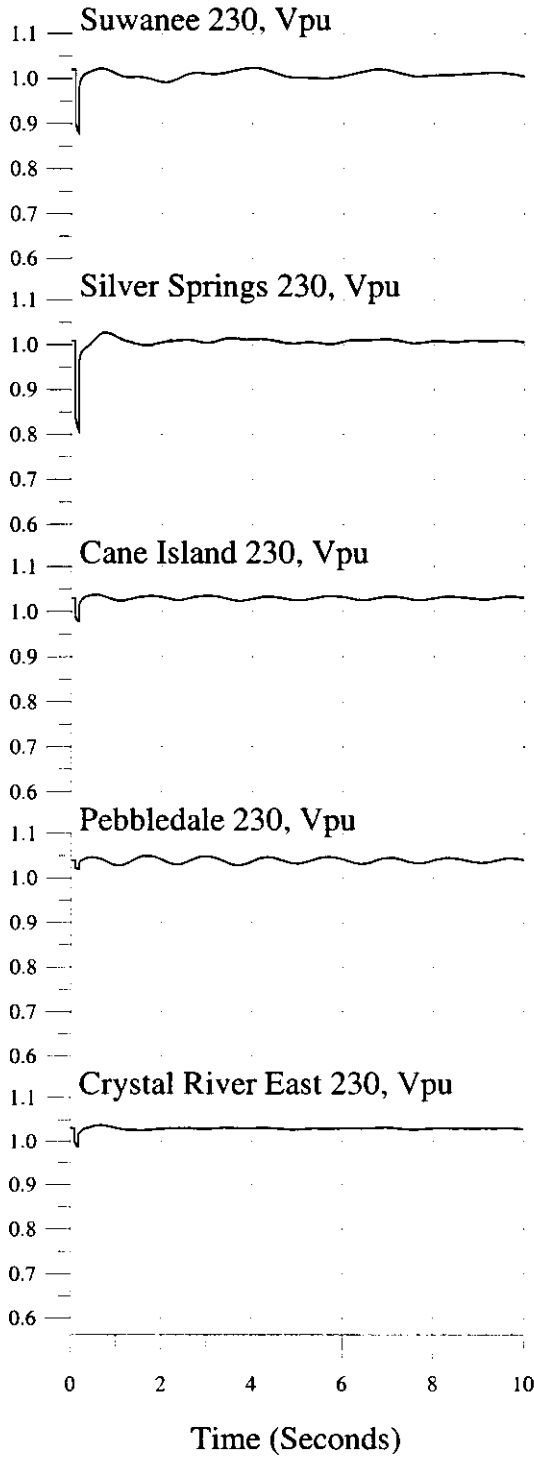
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



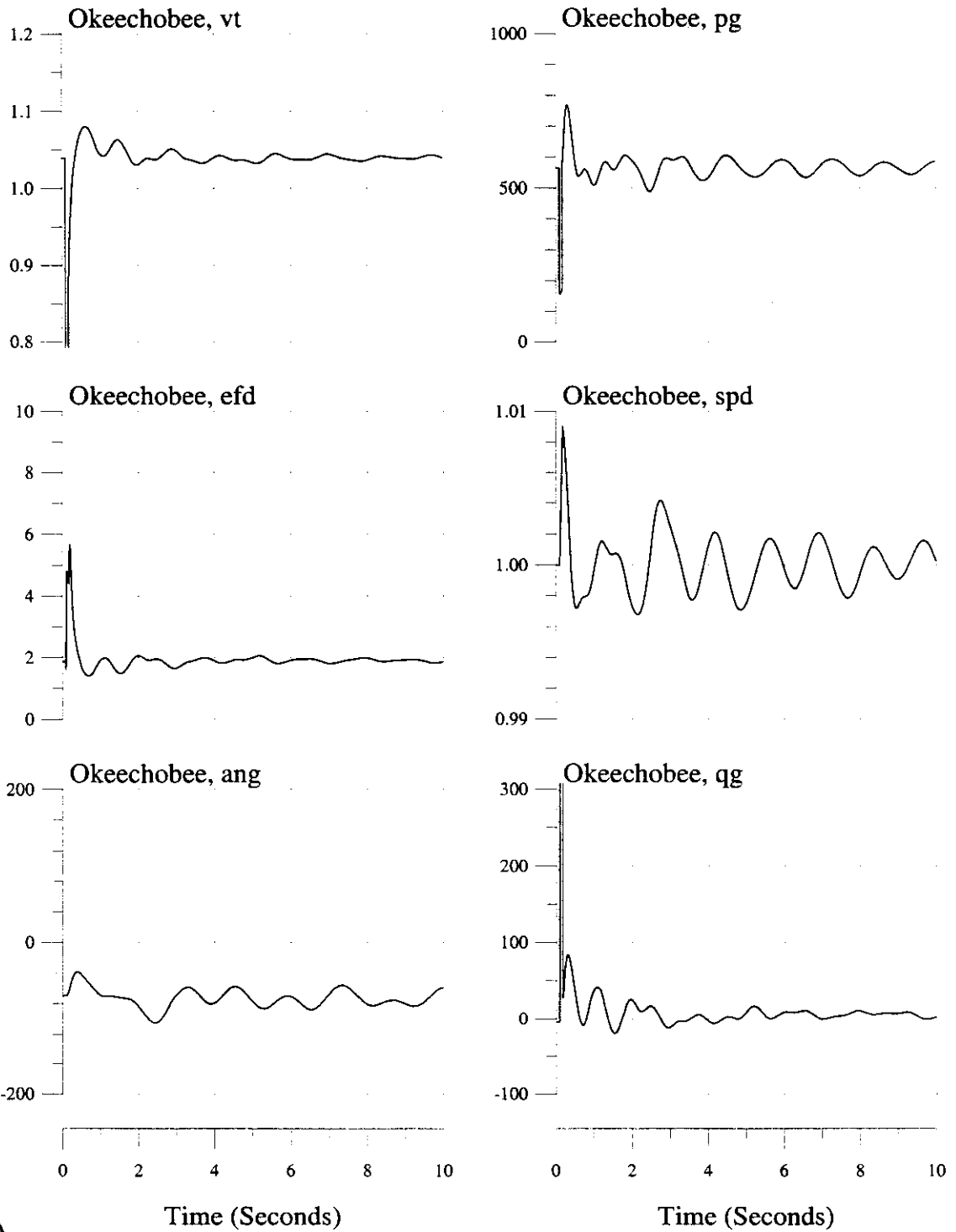
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



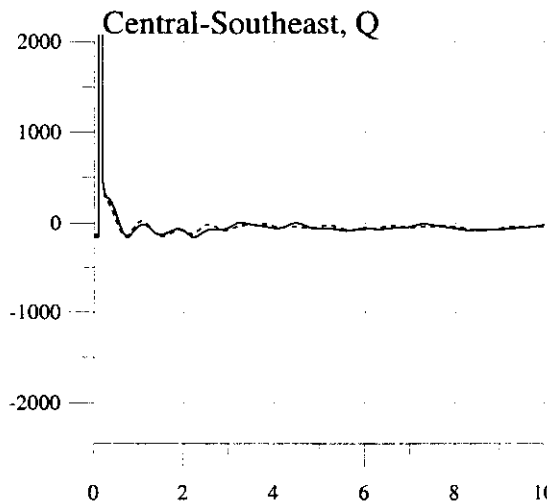
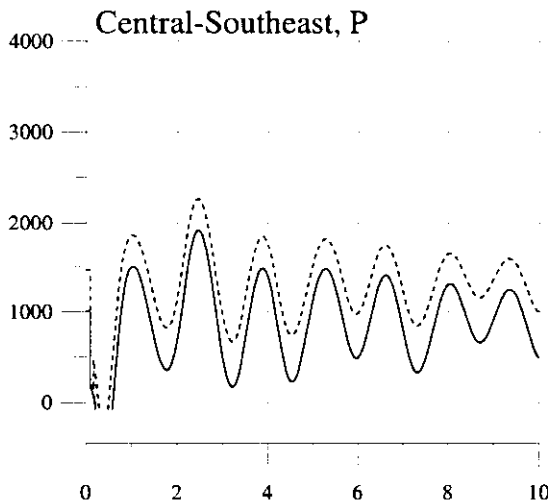
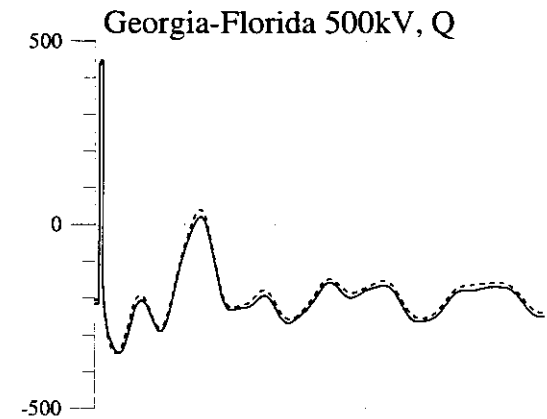
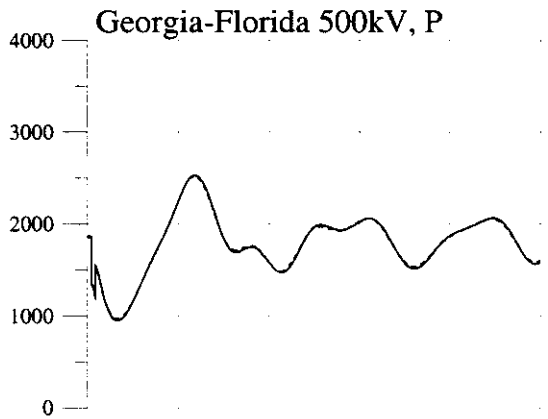
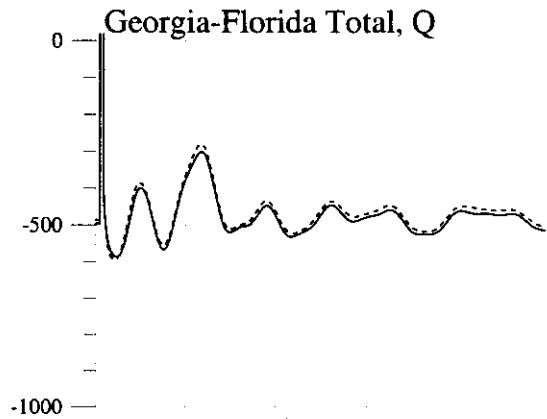
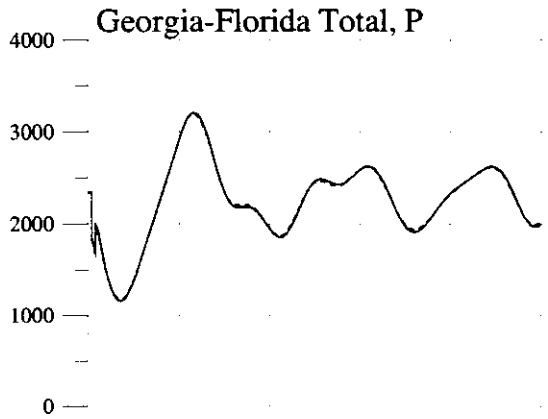
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

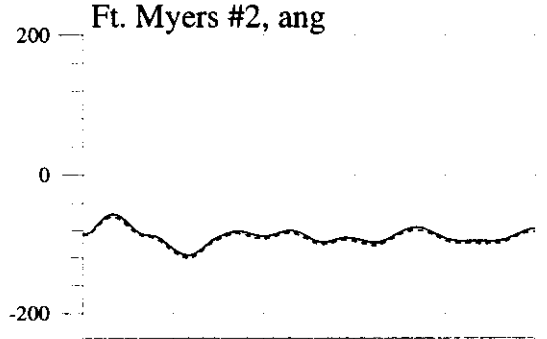
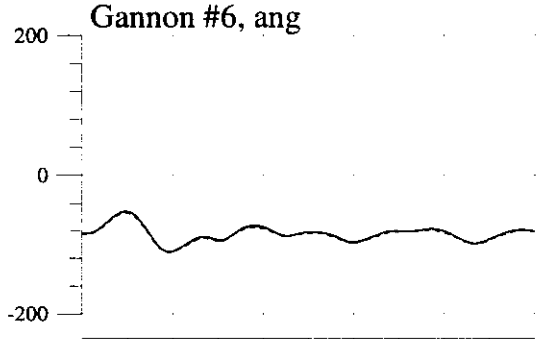
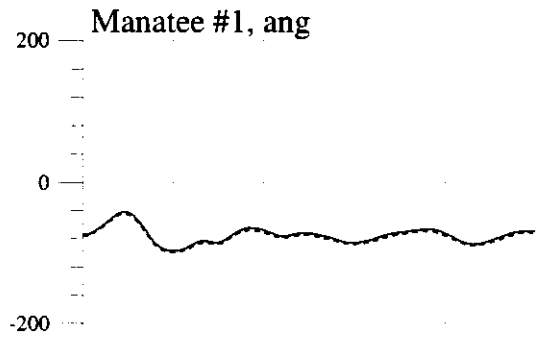
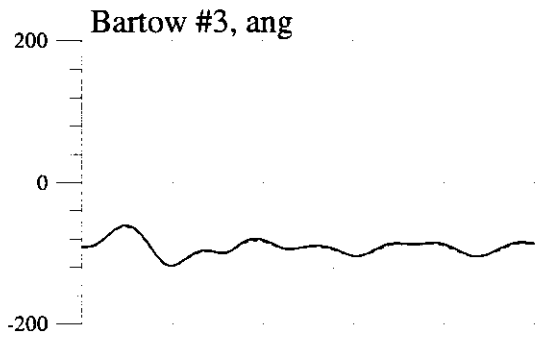
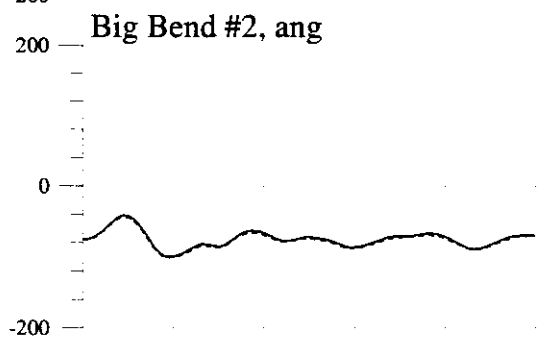
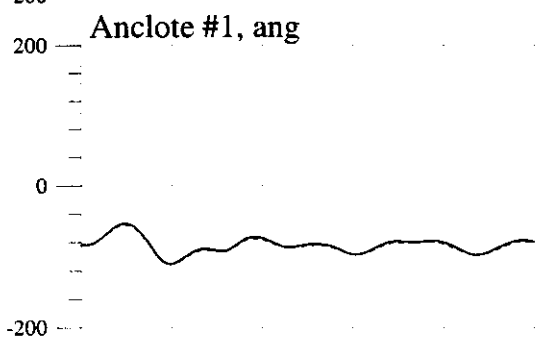
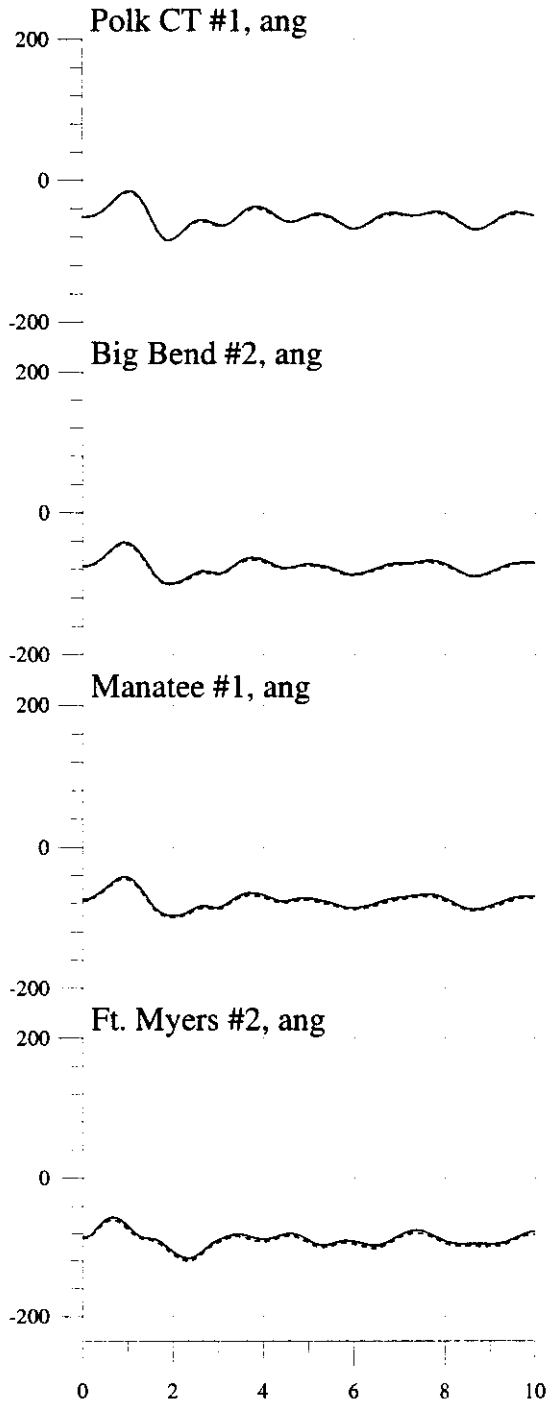
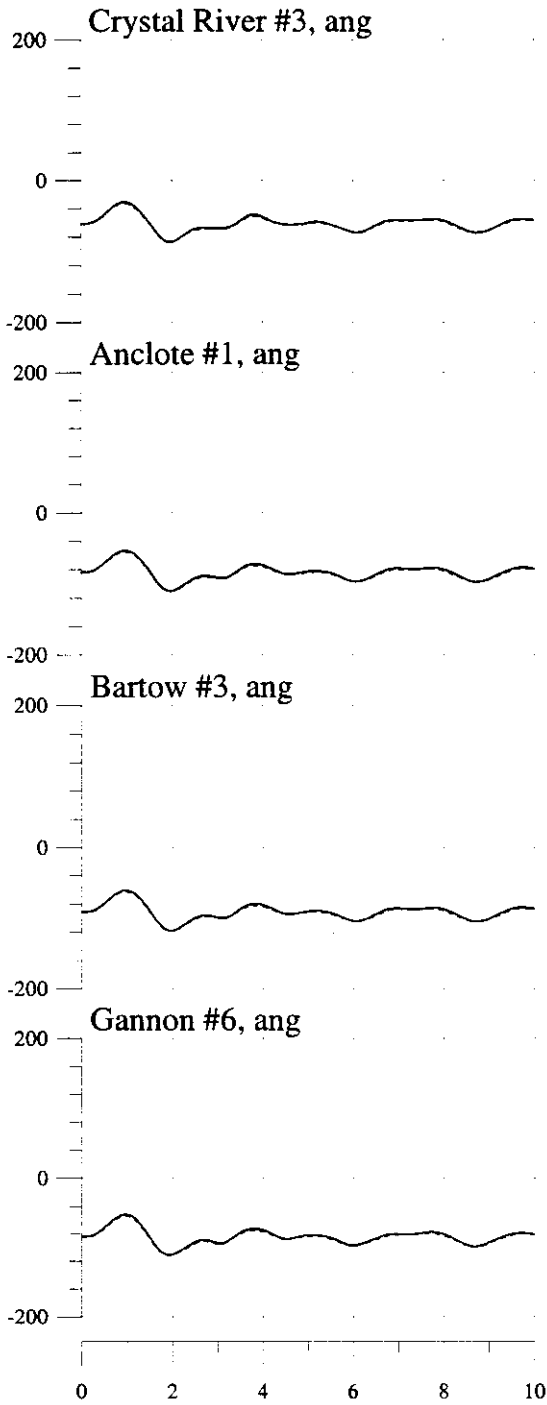
Time (Seconds)





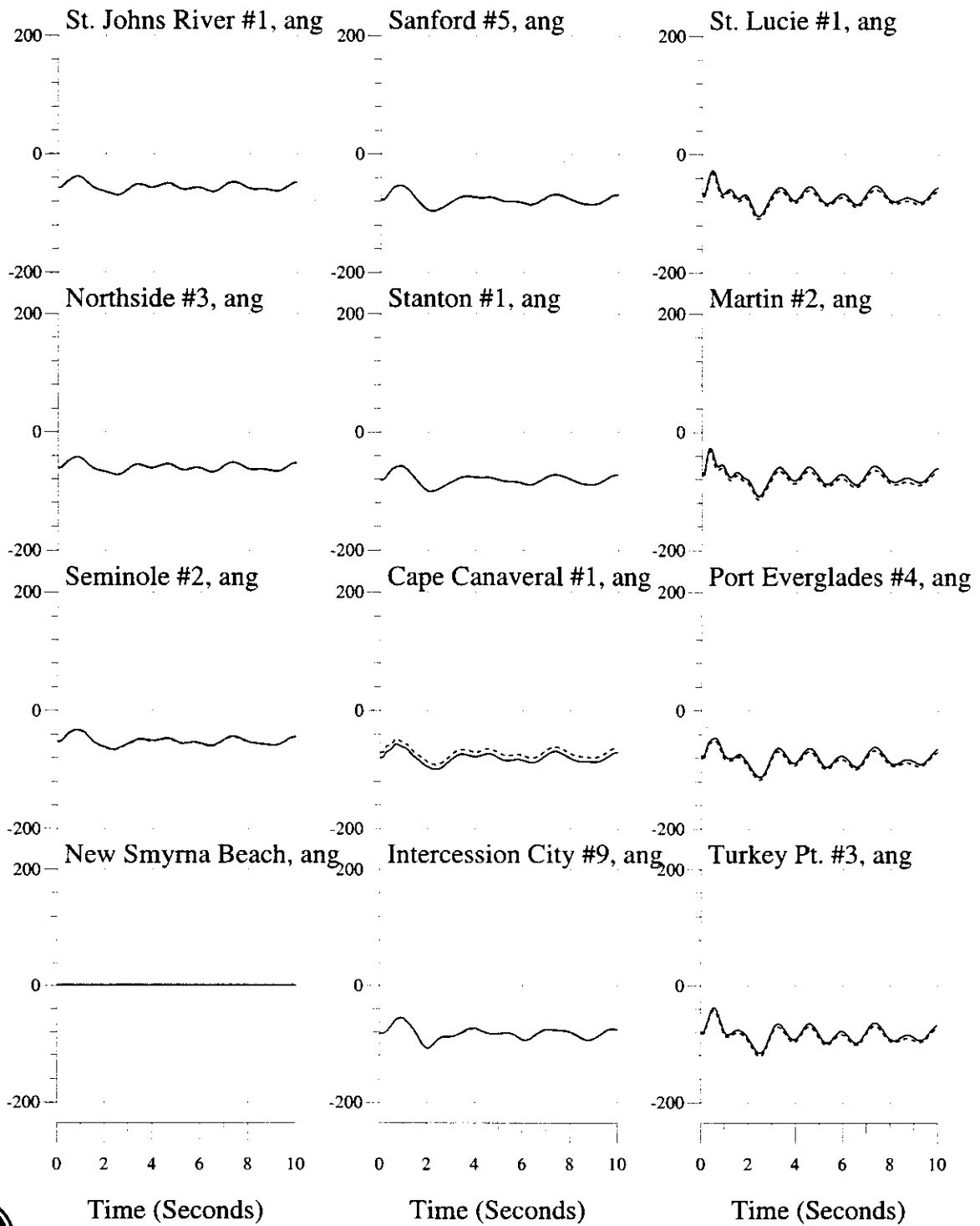
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



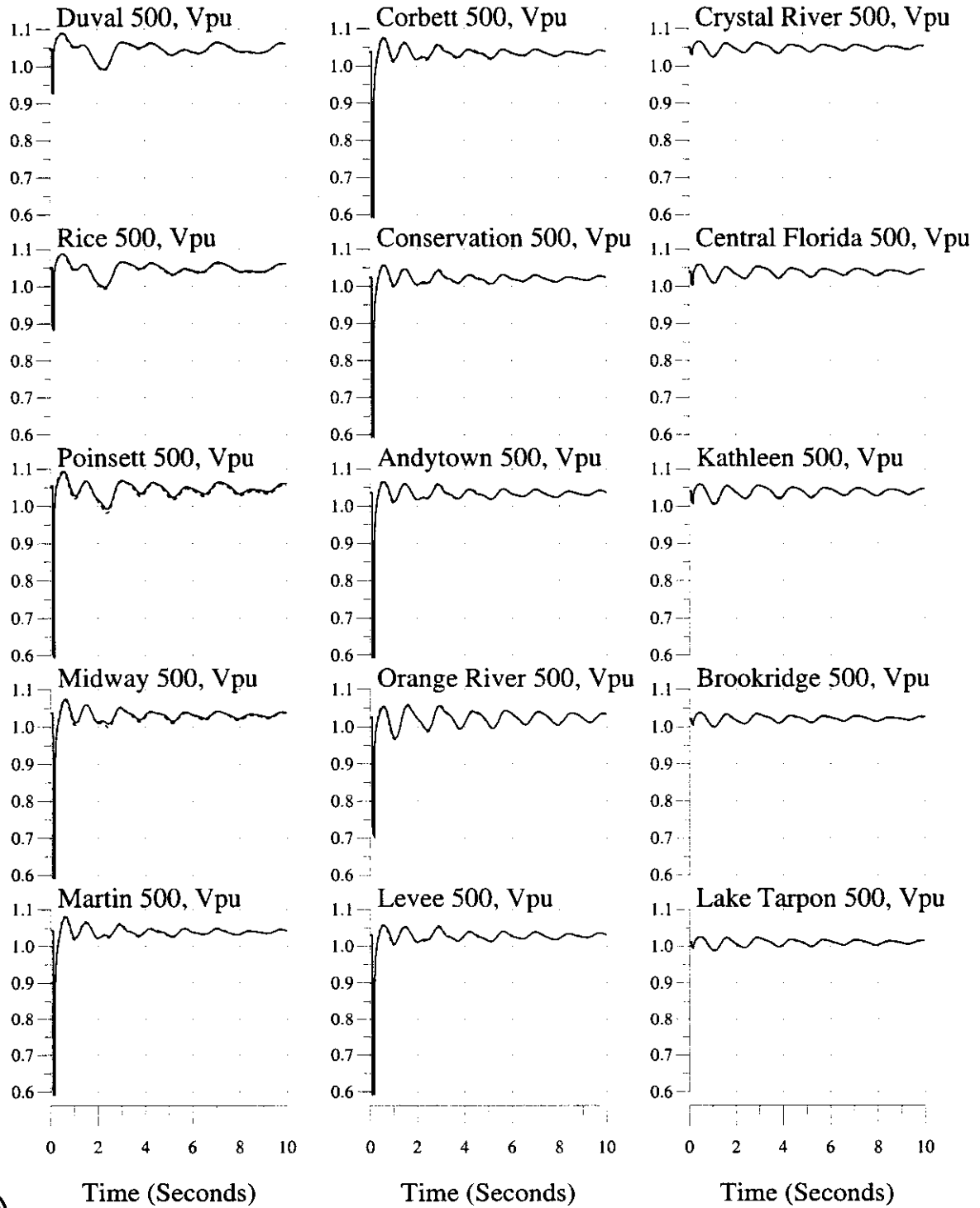
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



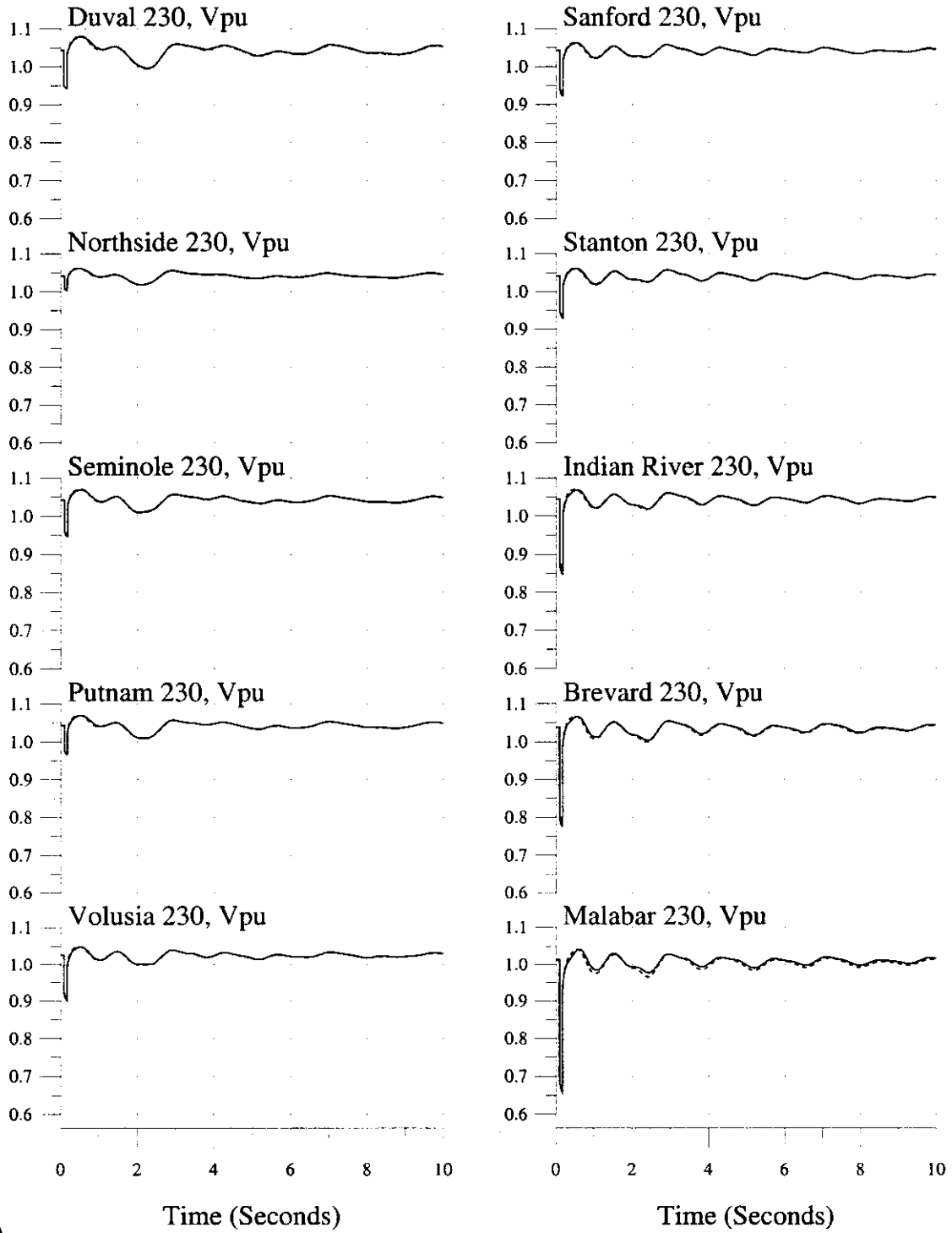
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



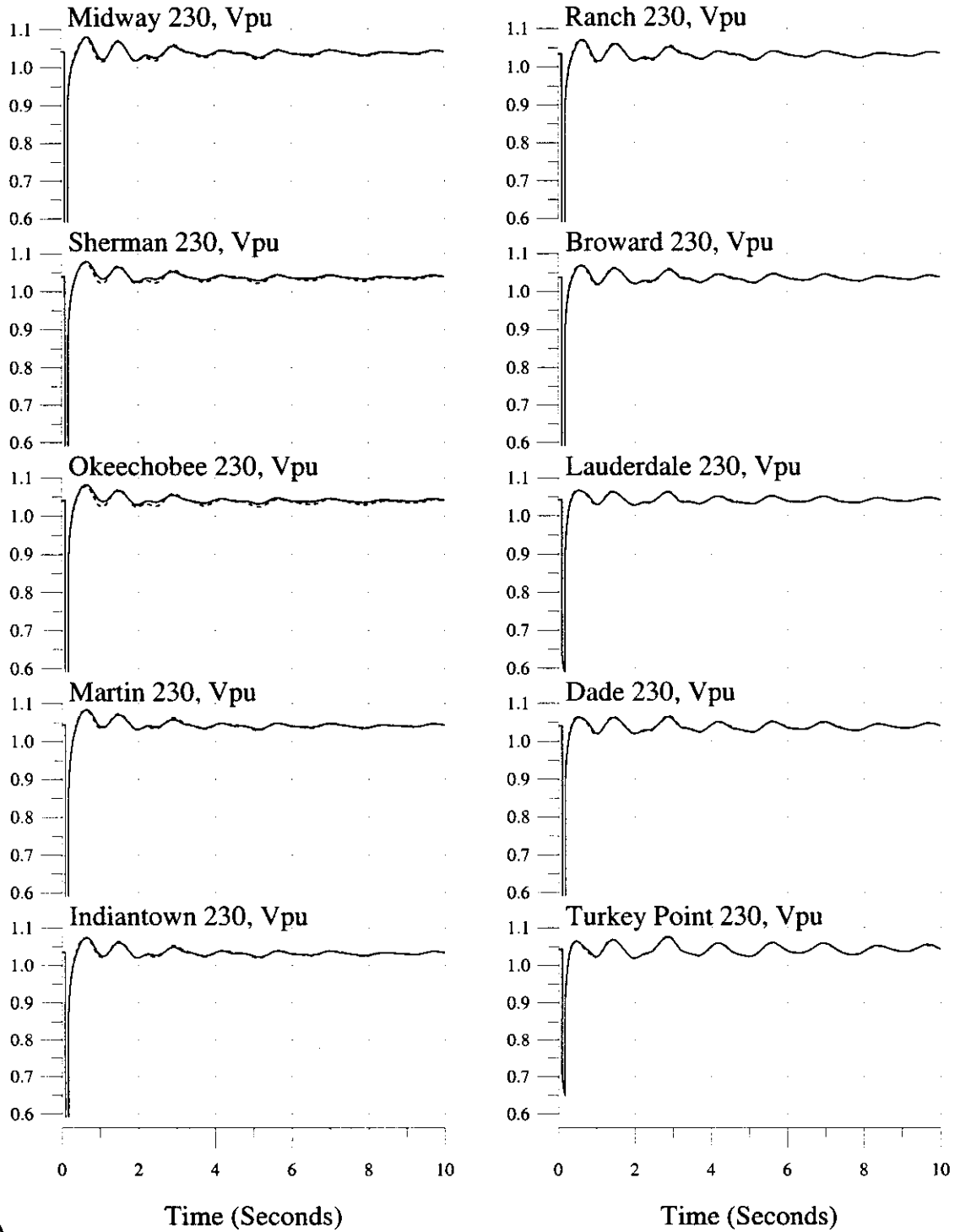
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



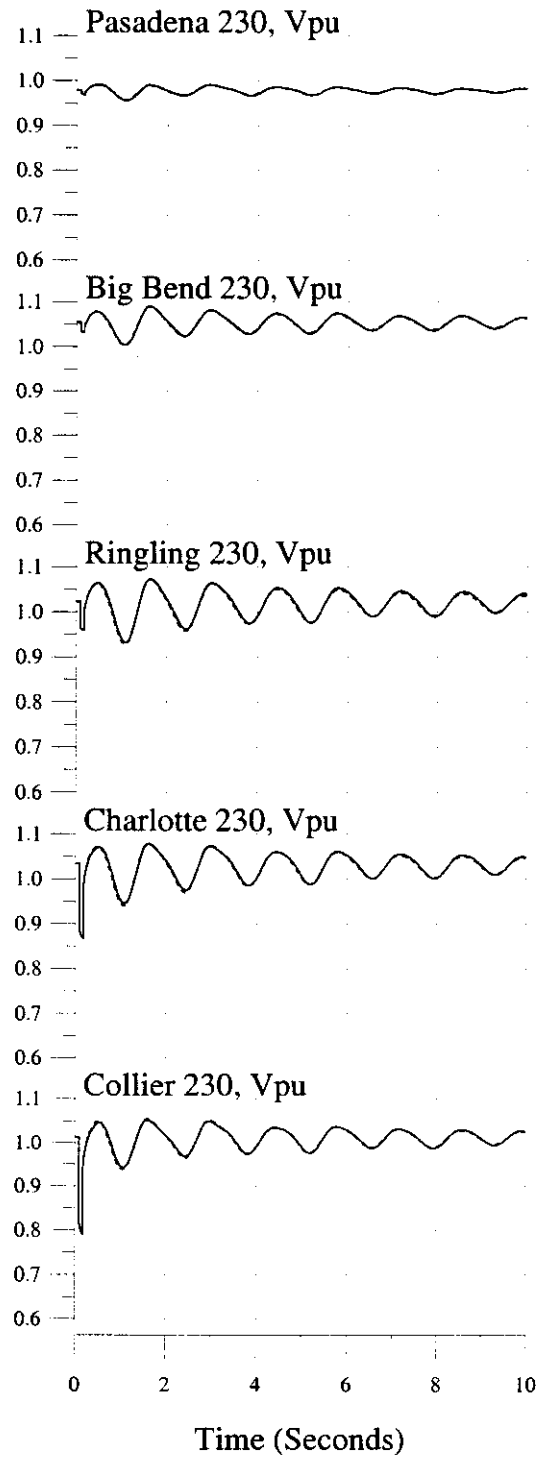
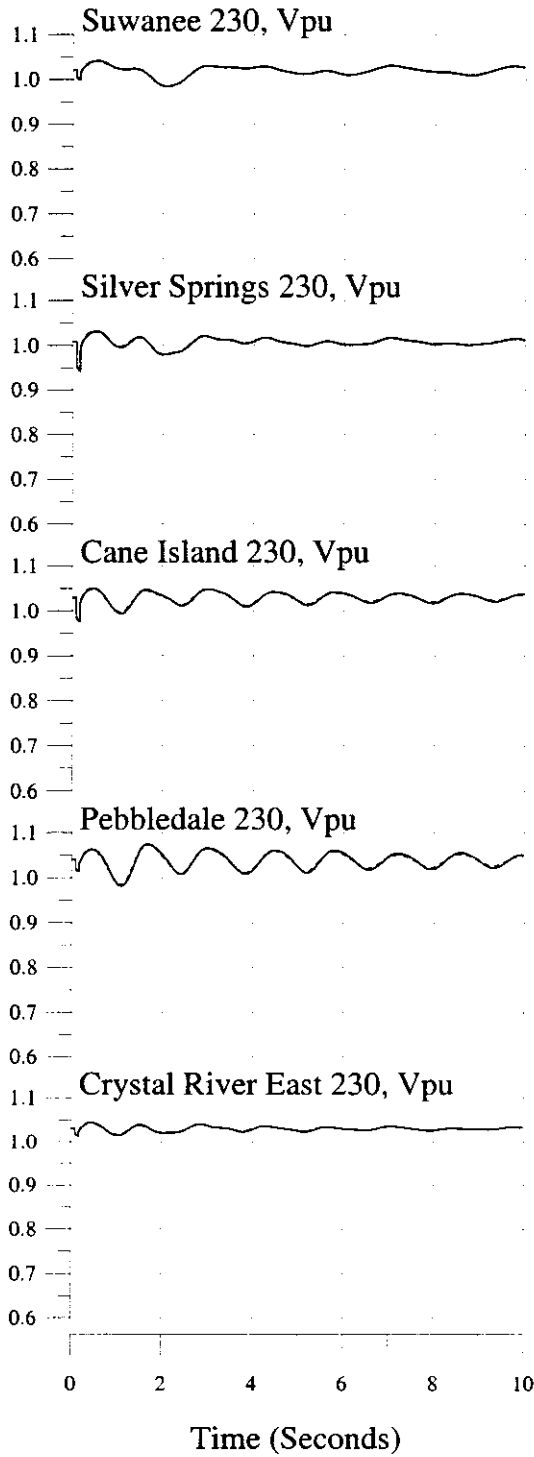
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



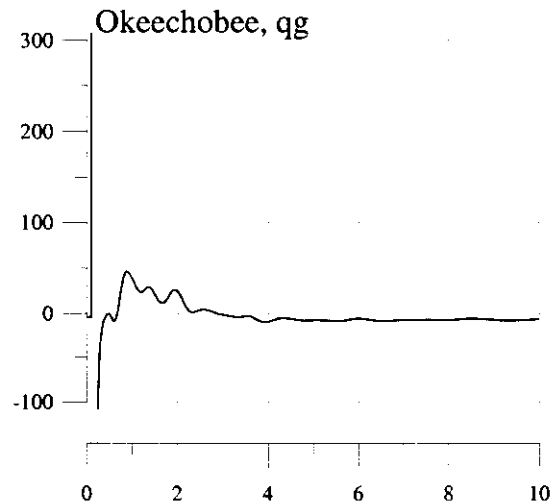
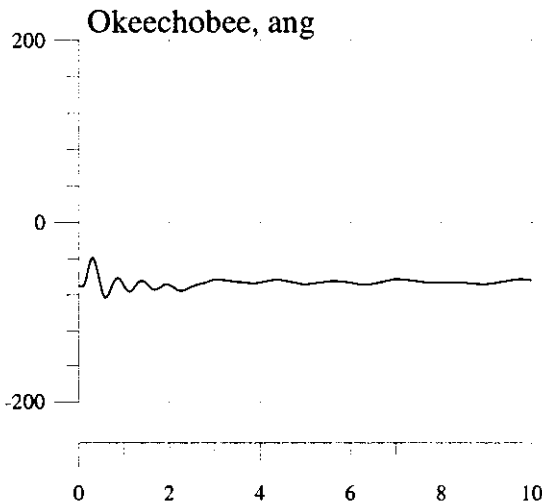
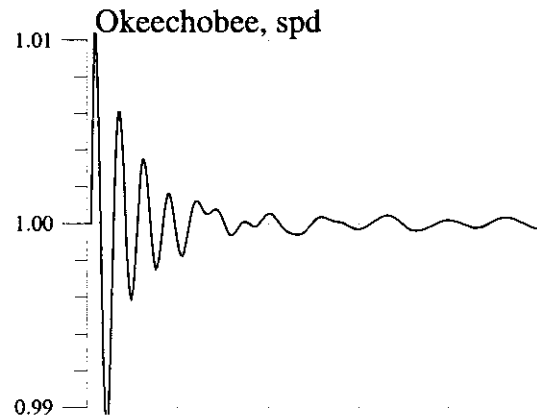
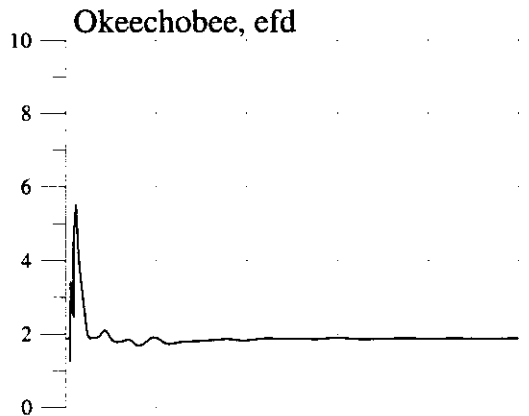
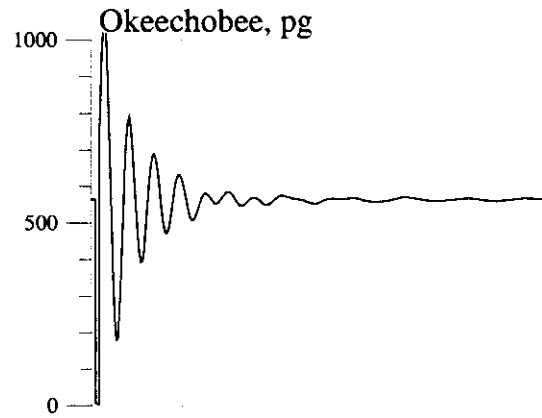
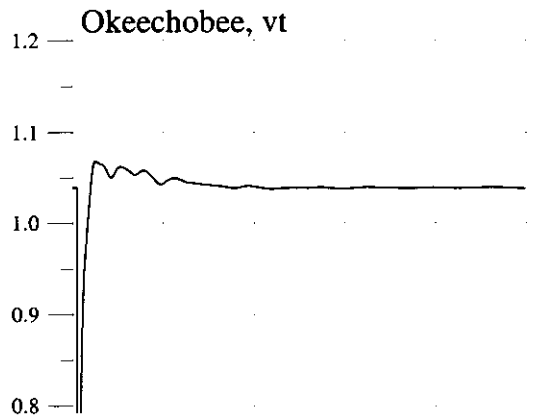
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



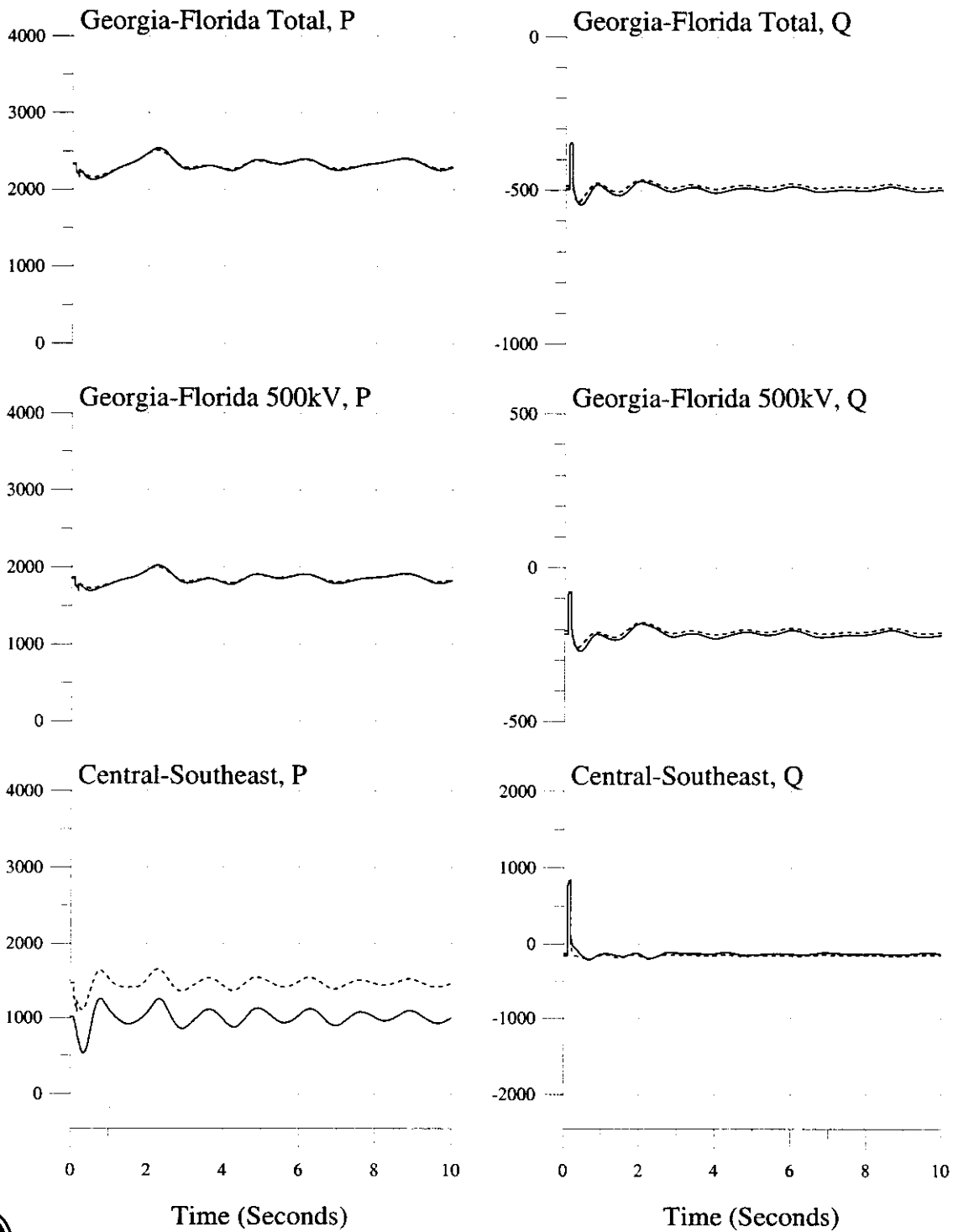
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

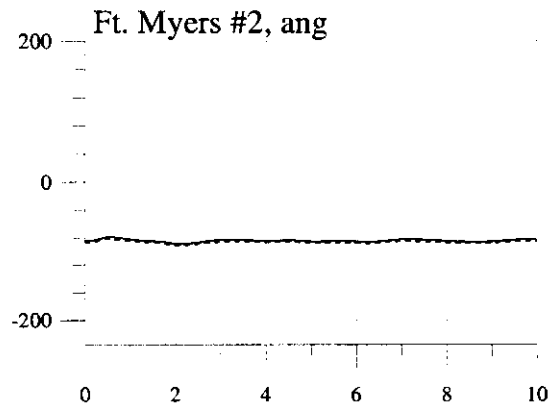
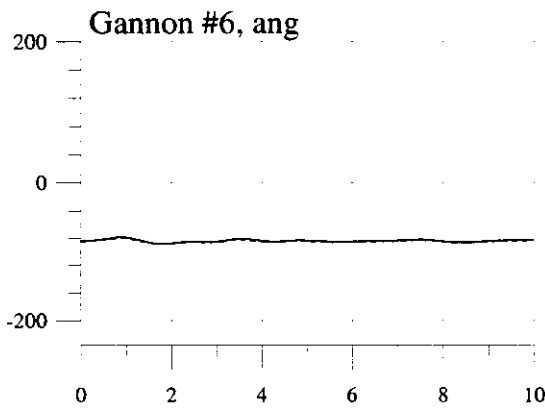
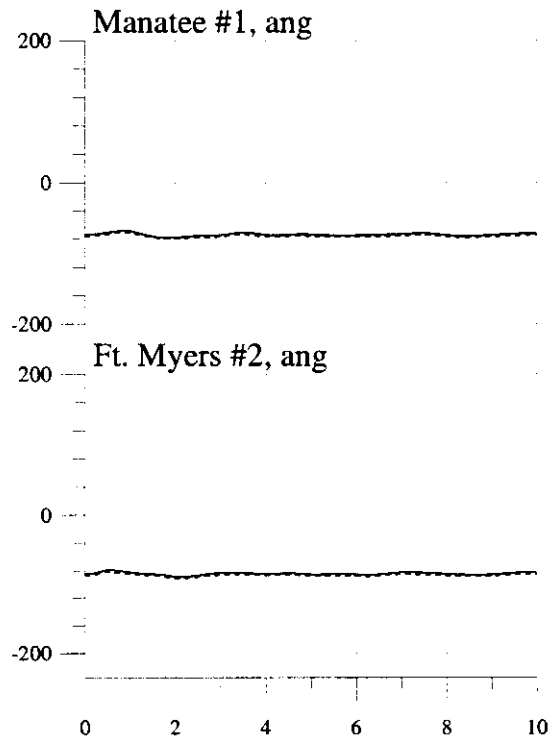
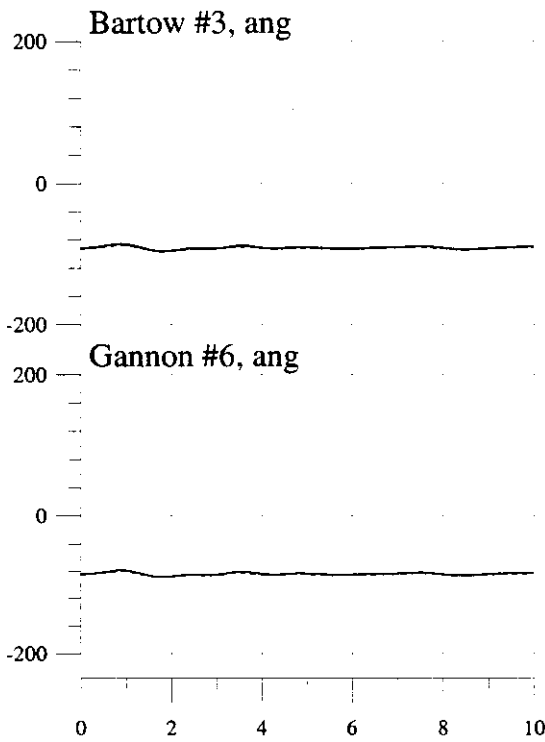
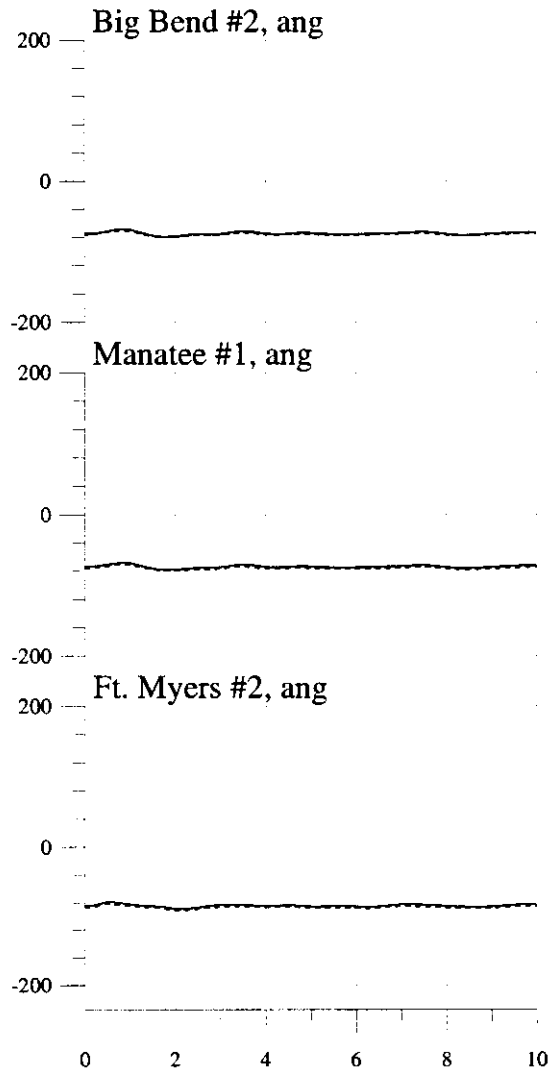
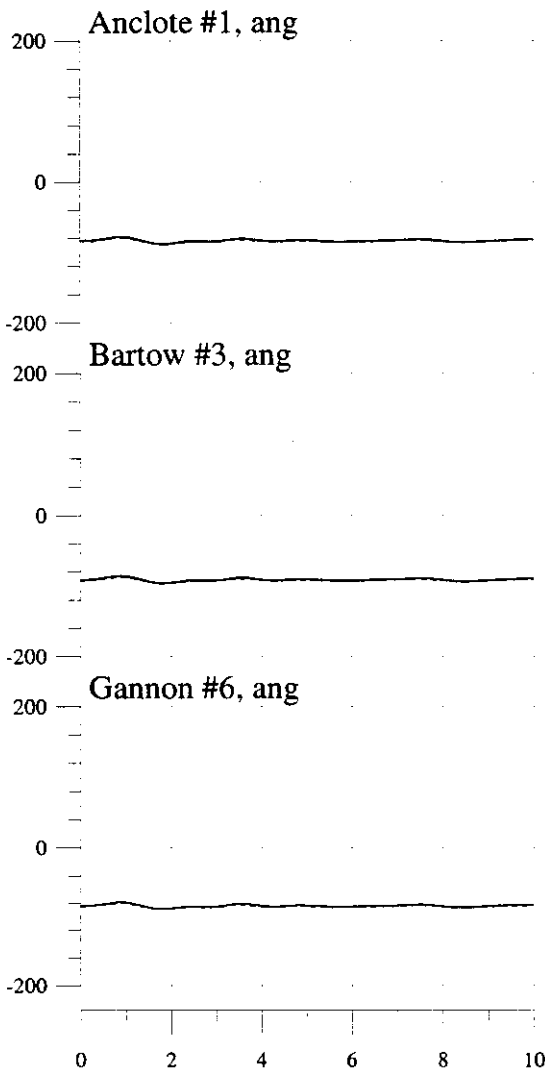
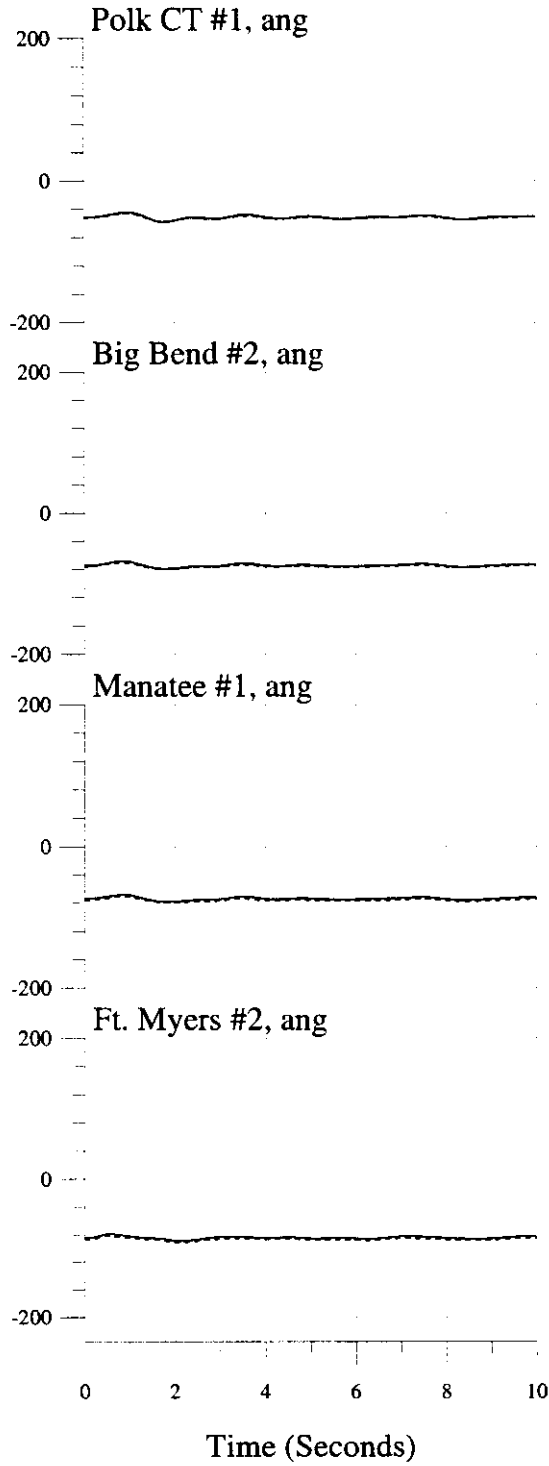
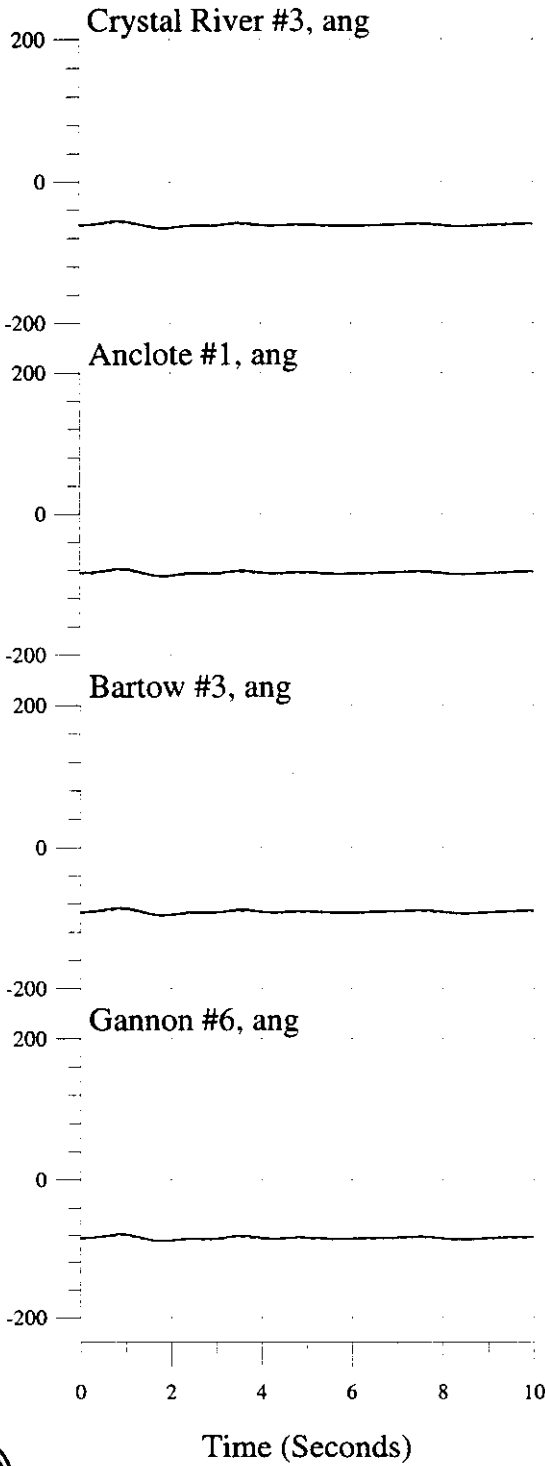
Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without





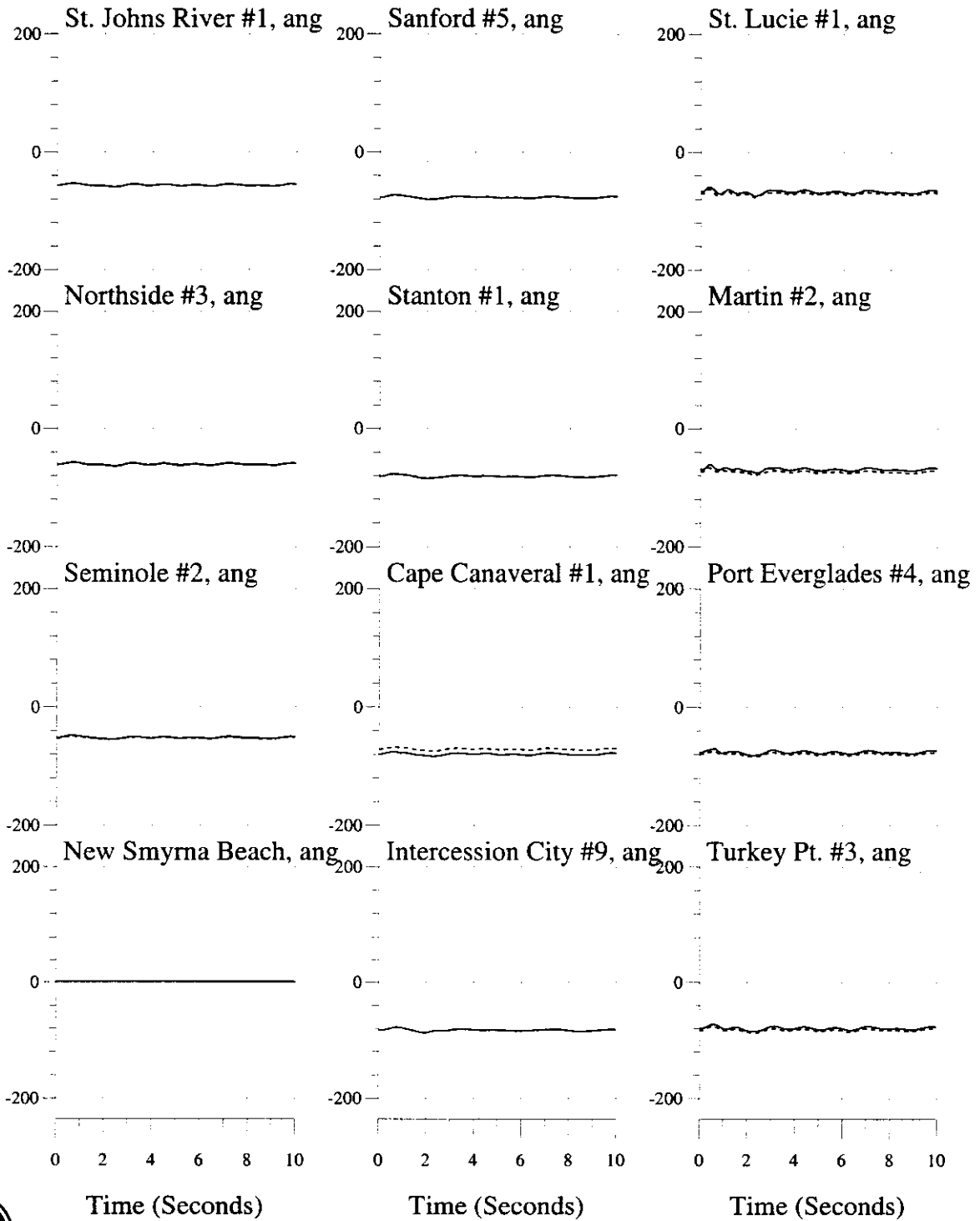
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



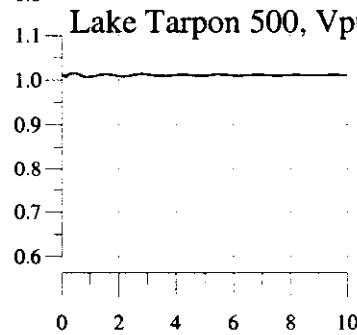
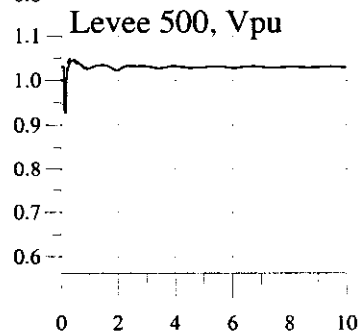
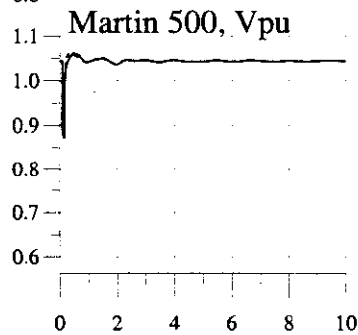
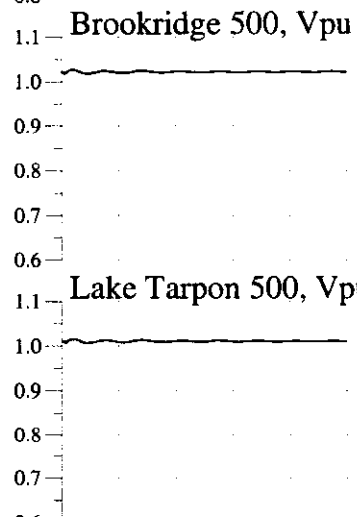
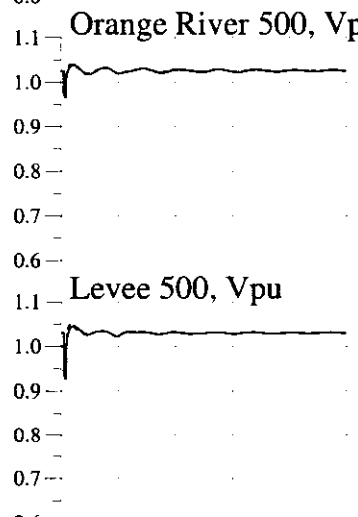
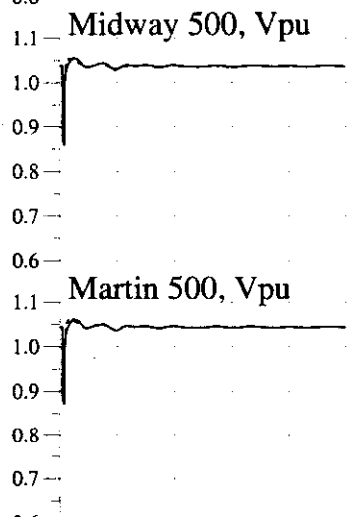
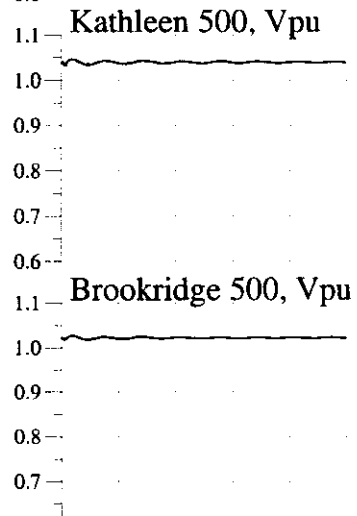
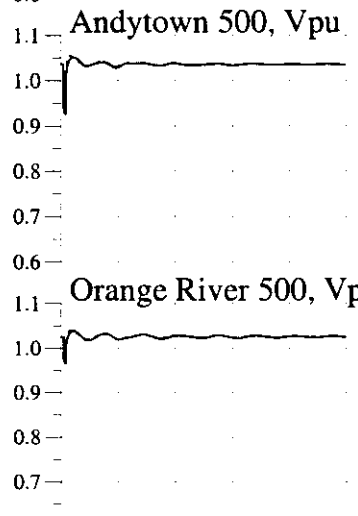
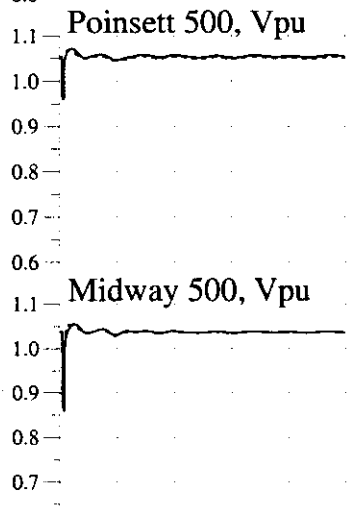
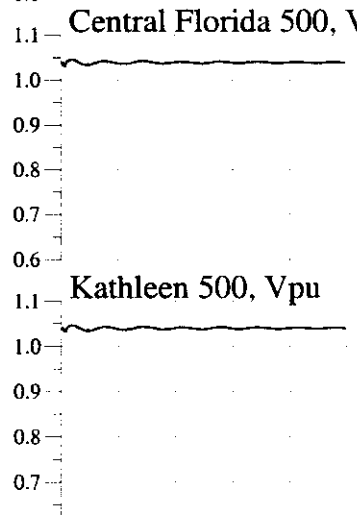
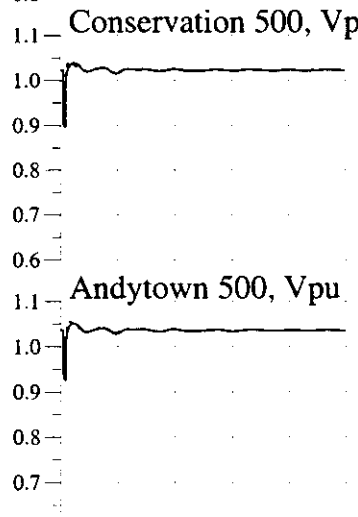
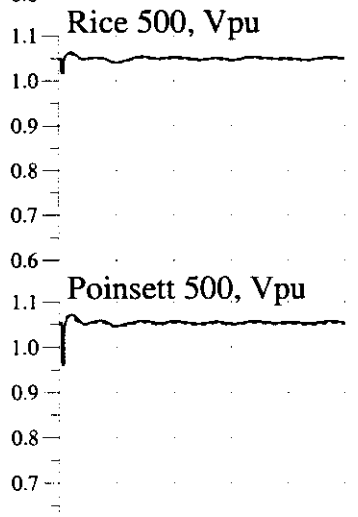
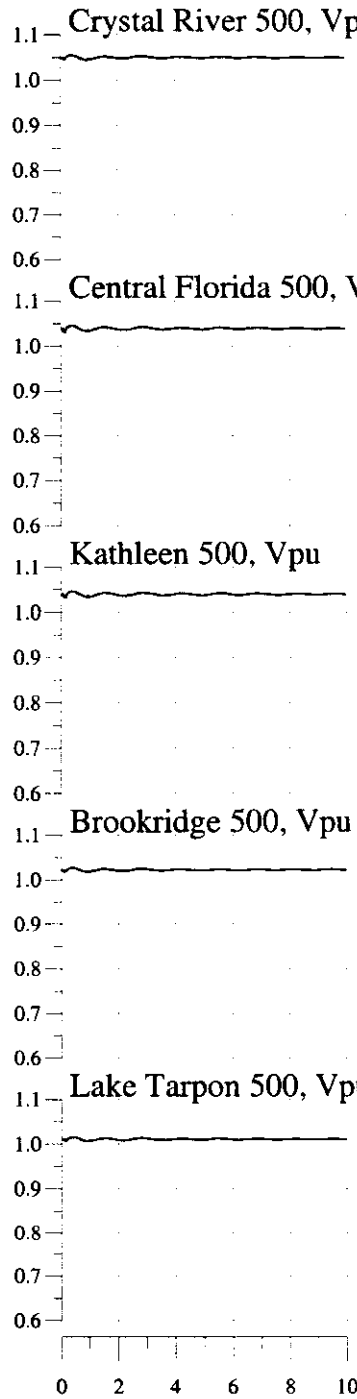
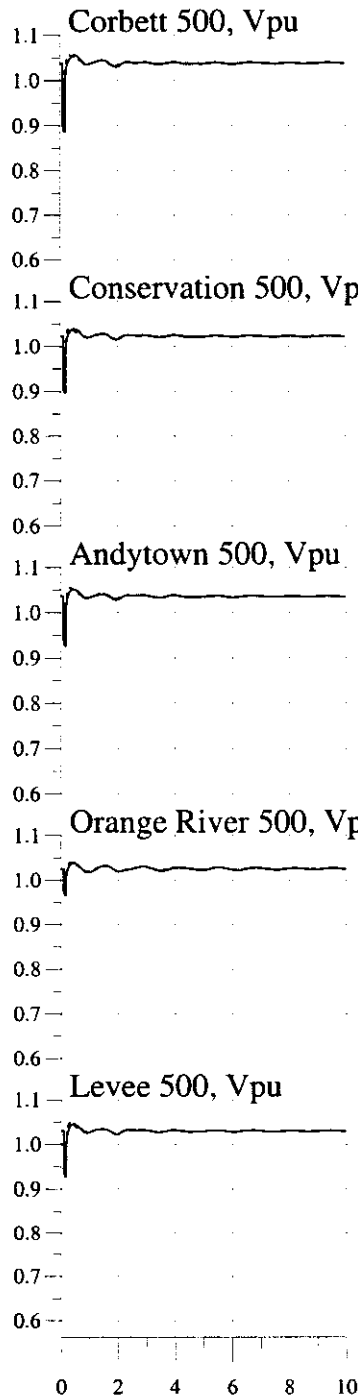
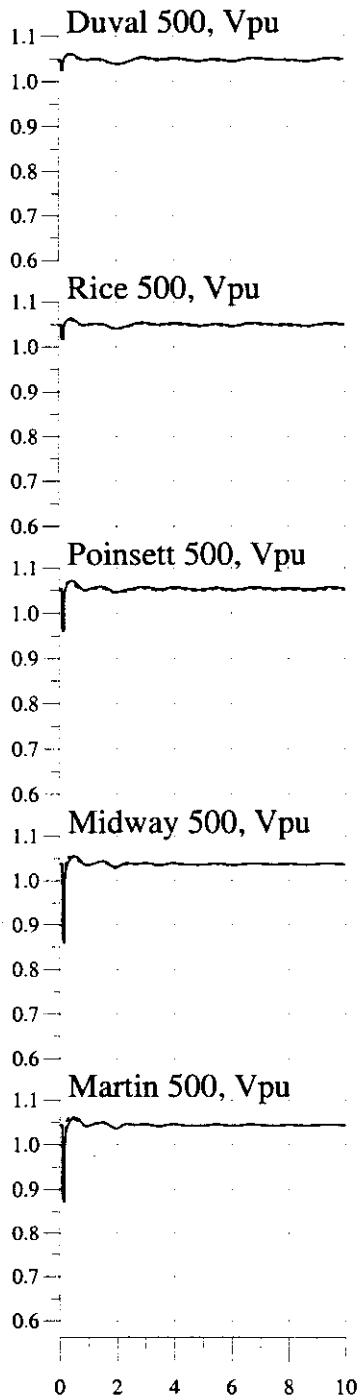
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



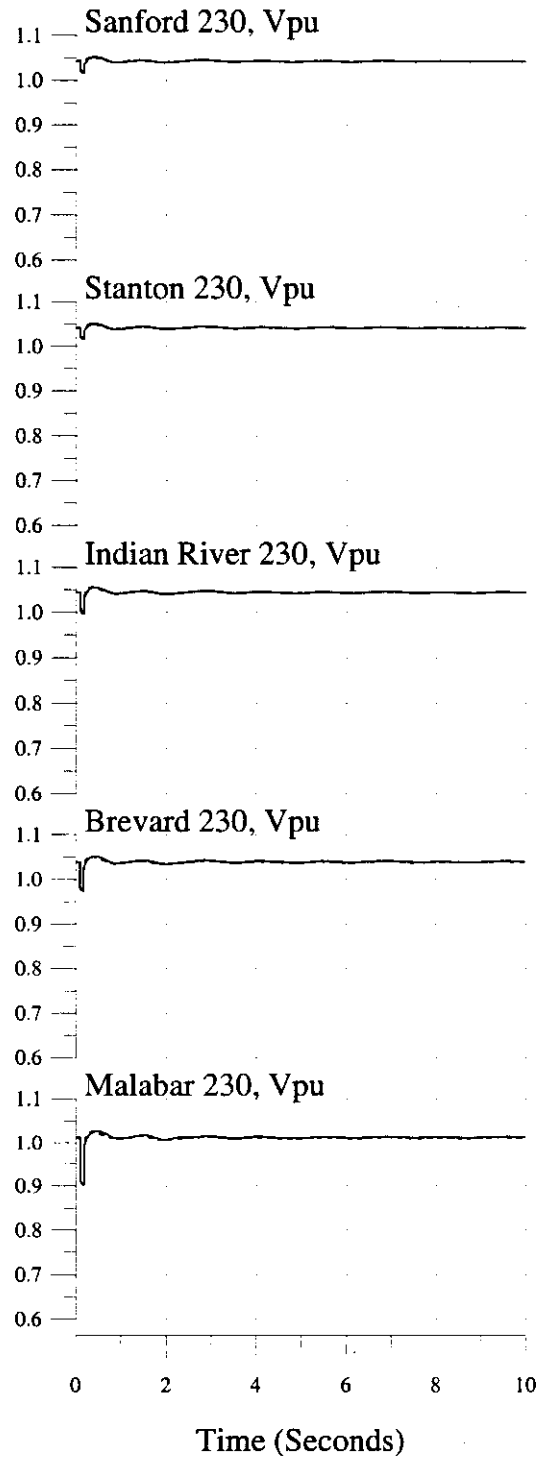
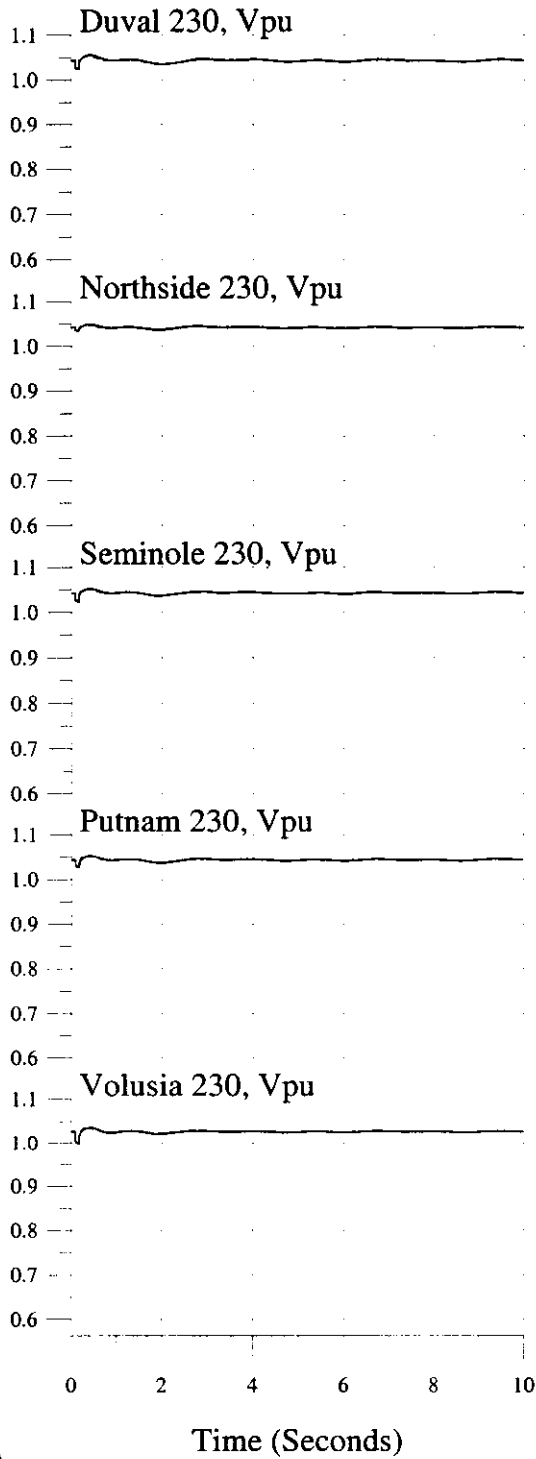
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



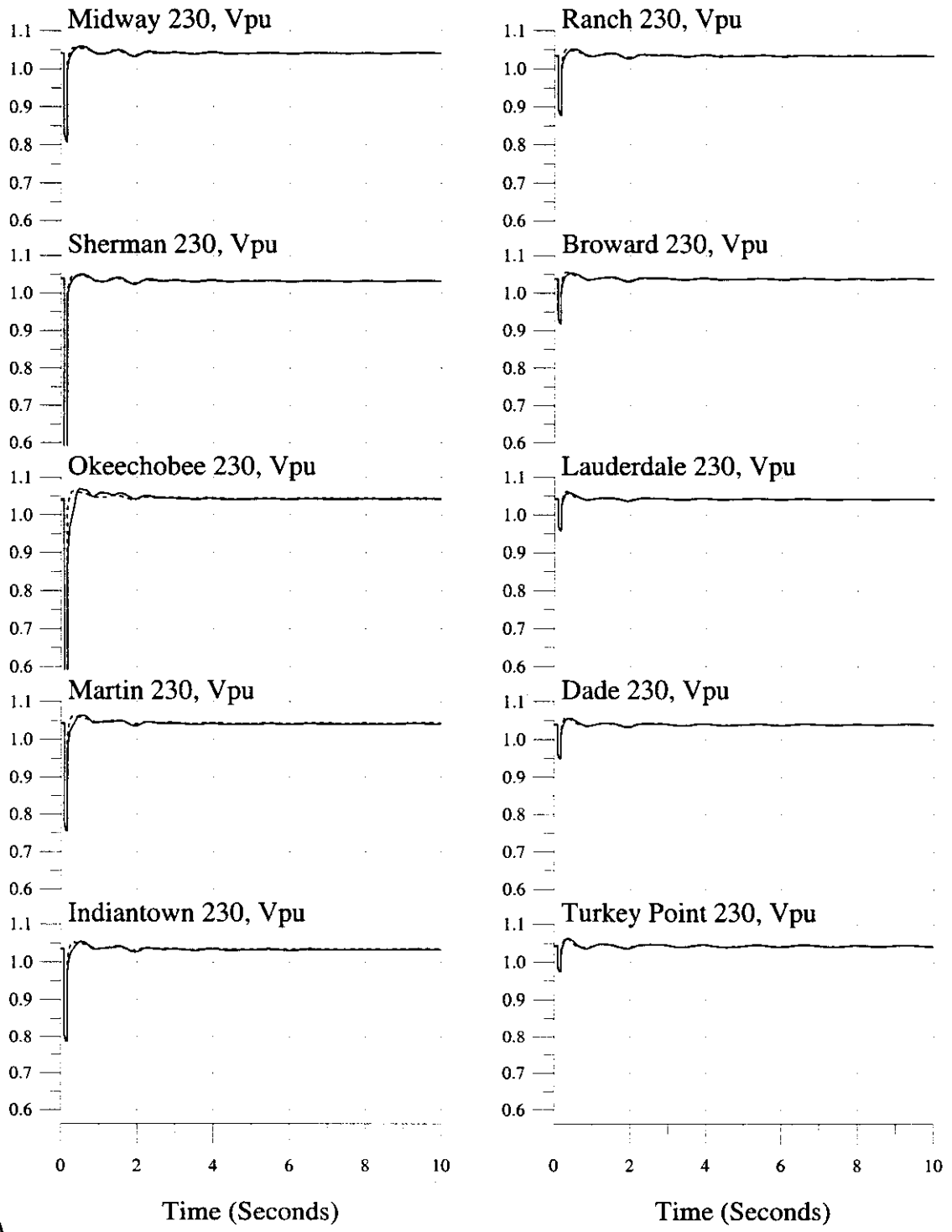
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



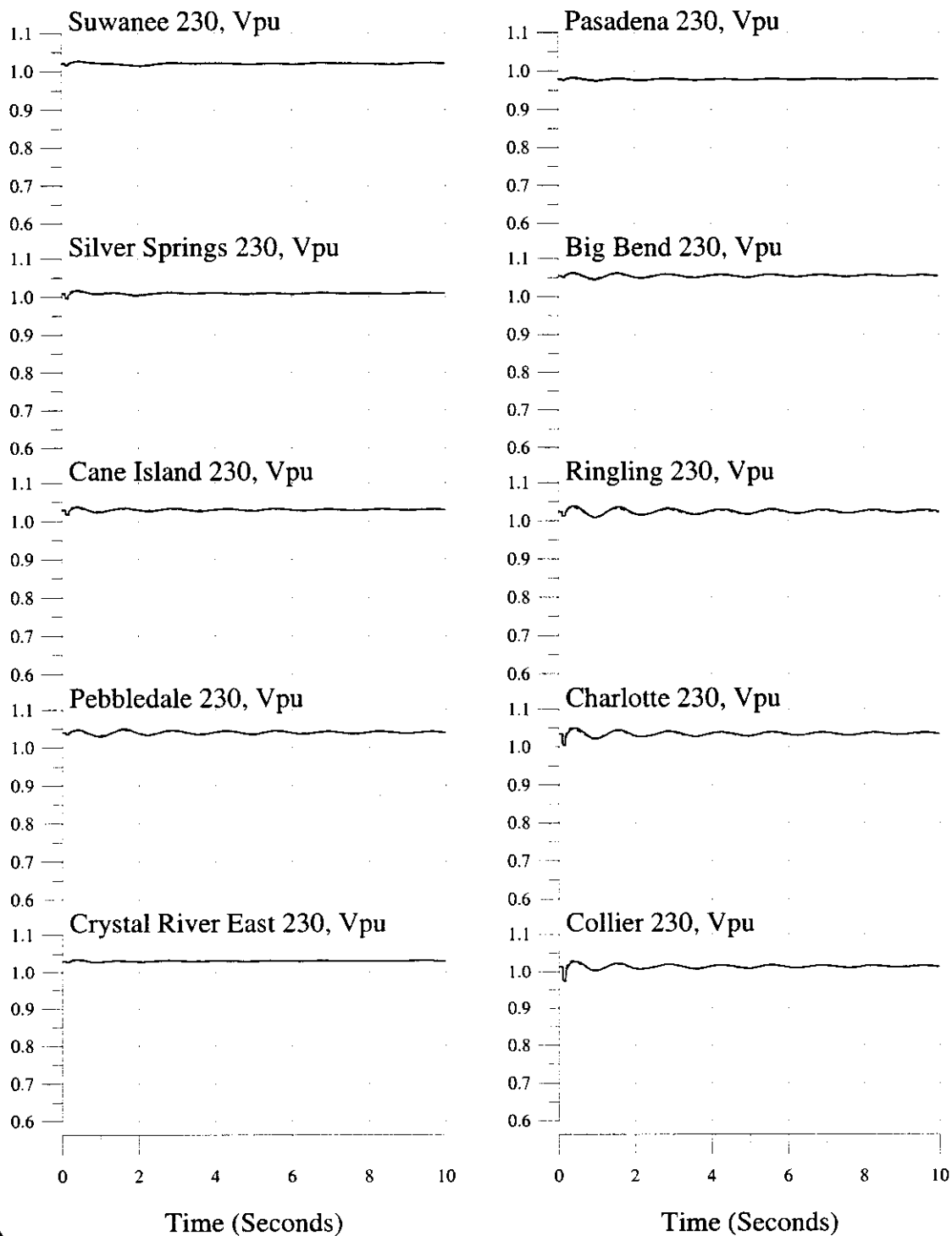
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



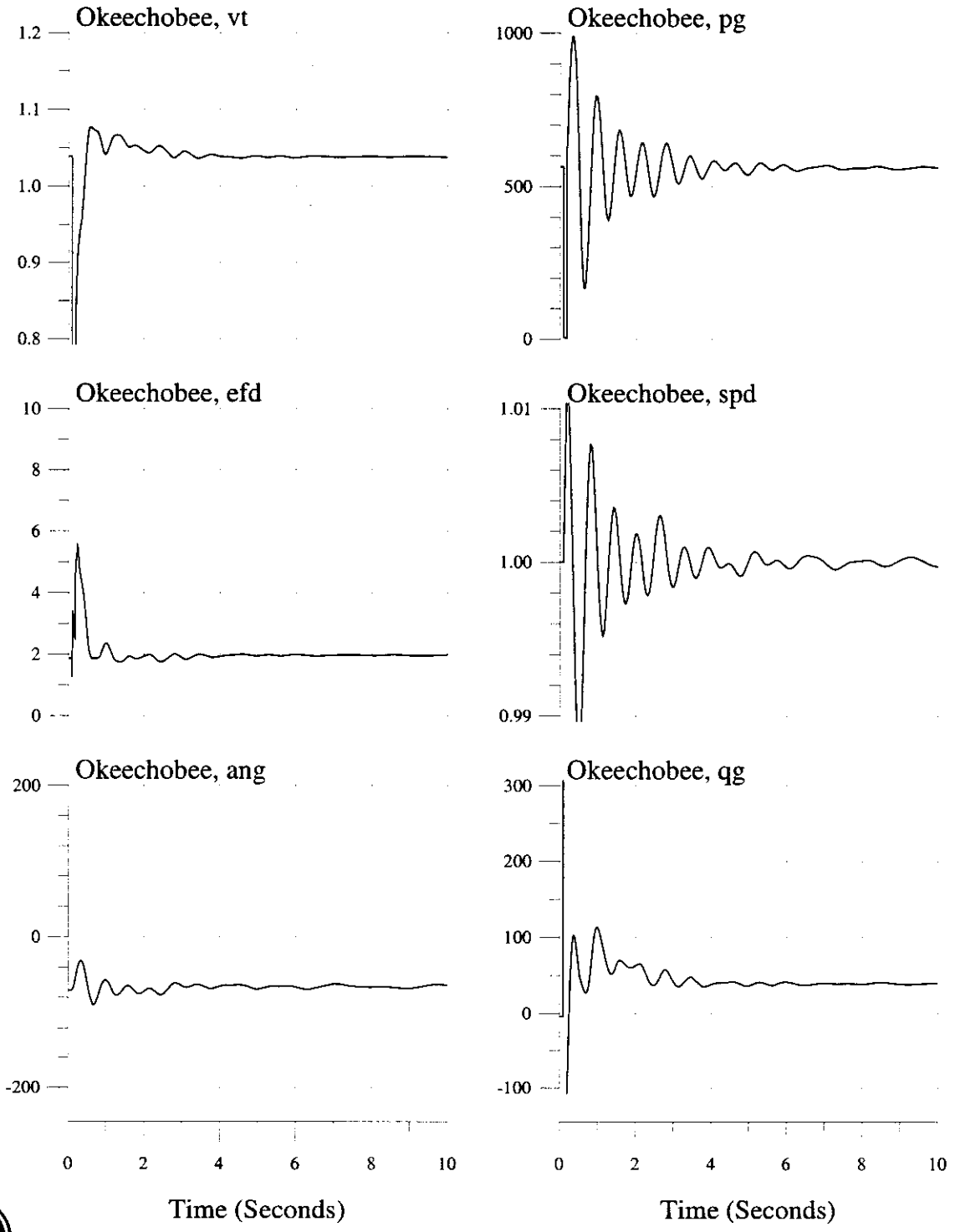
# 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line 2003 Winter System

Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



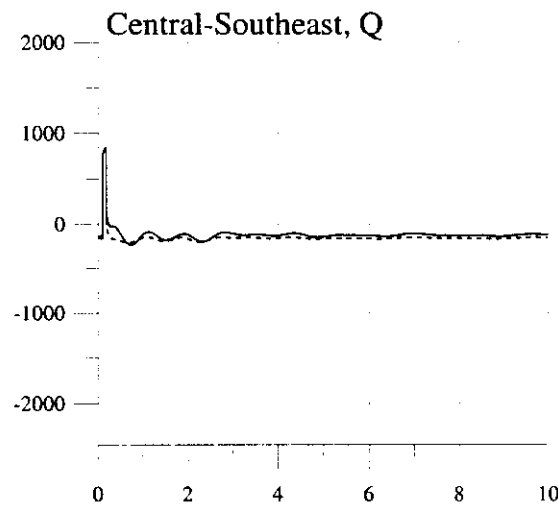
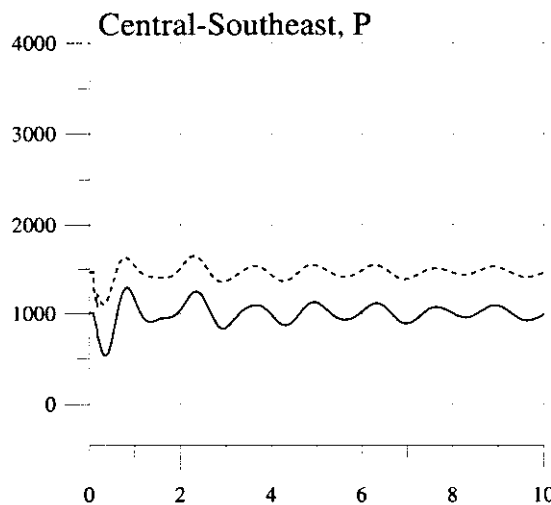
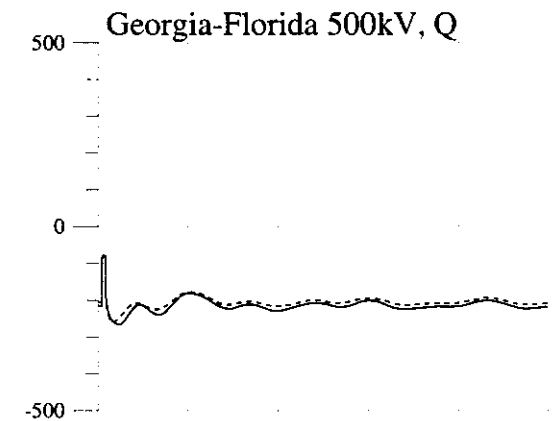
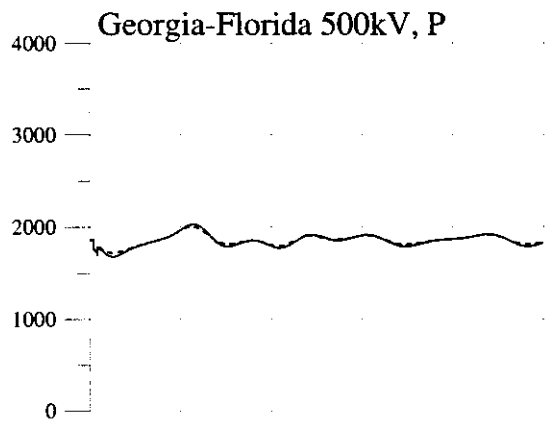
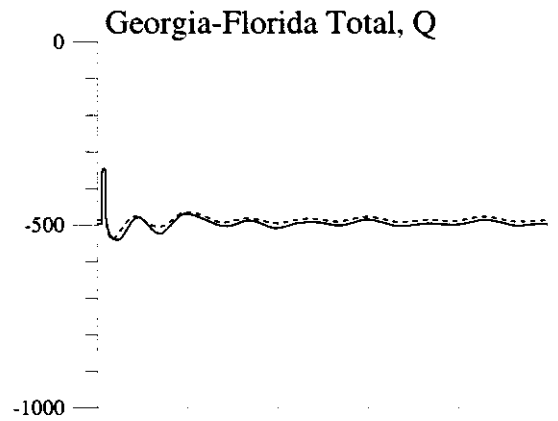
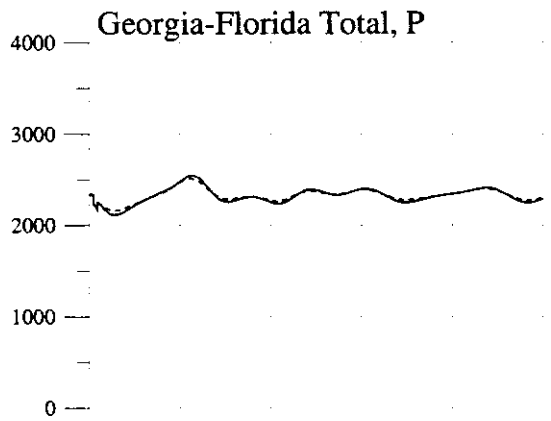
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

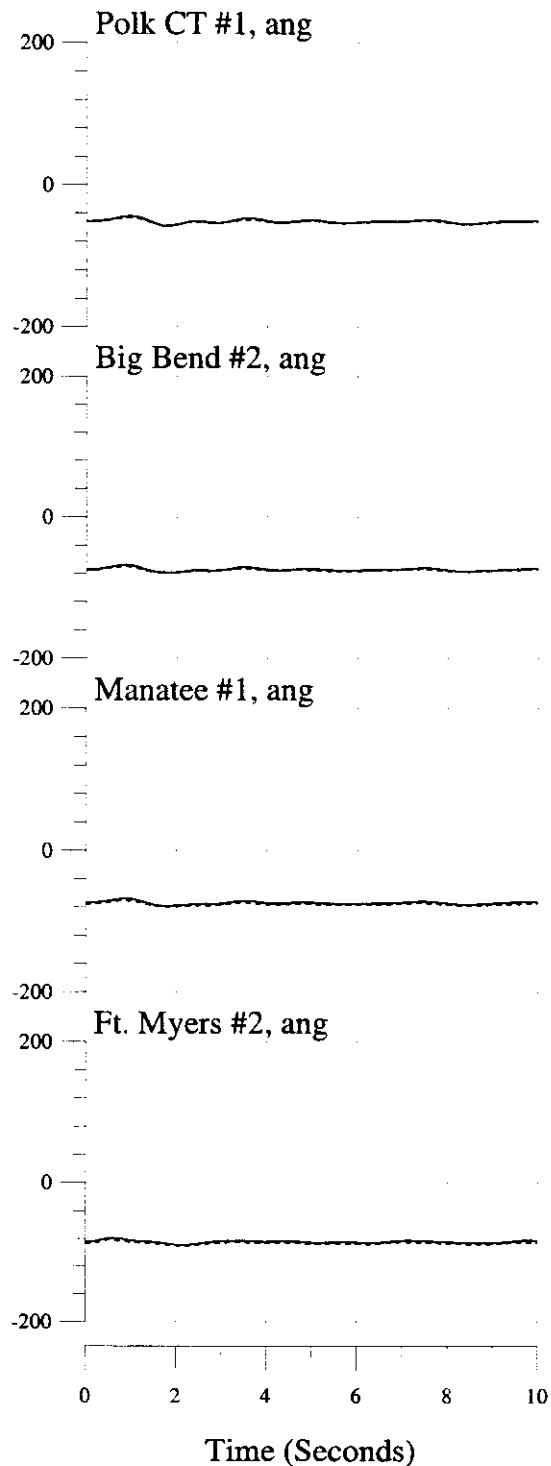
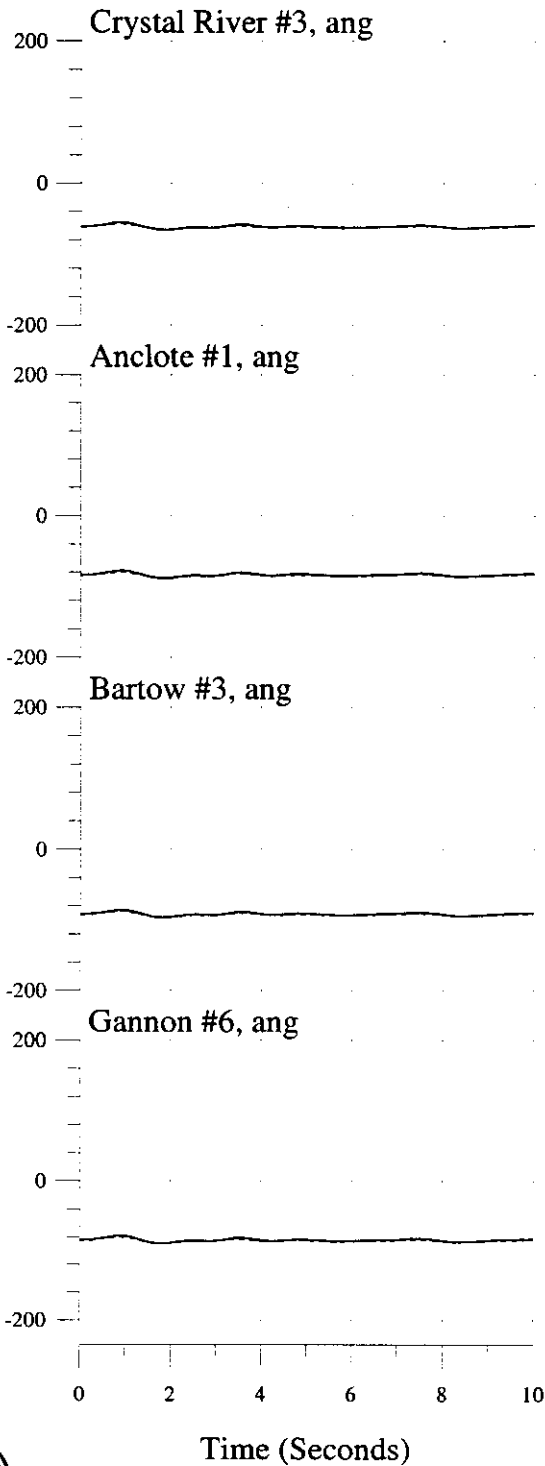
Time (Seconds)





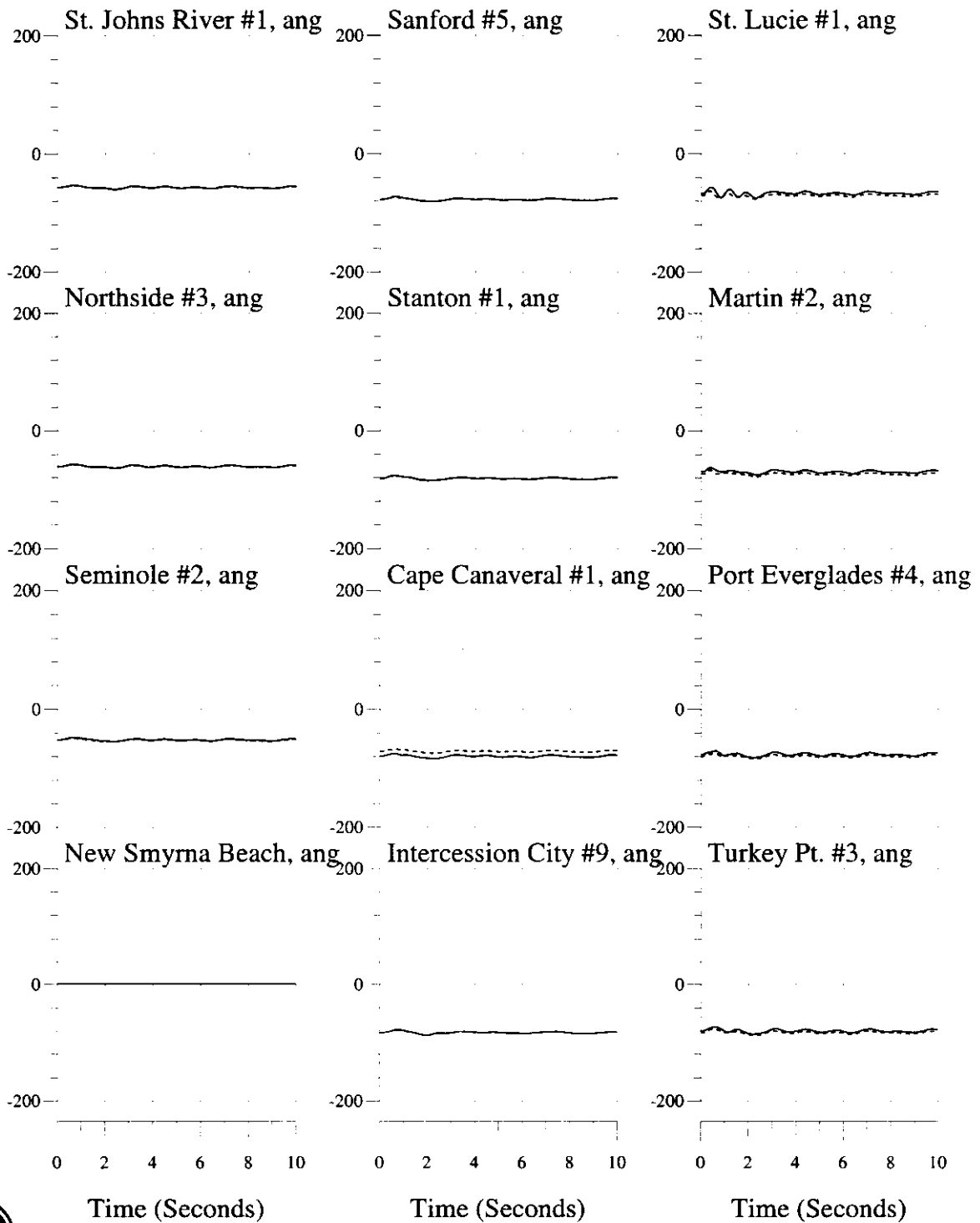
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



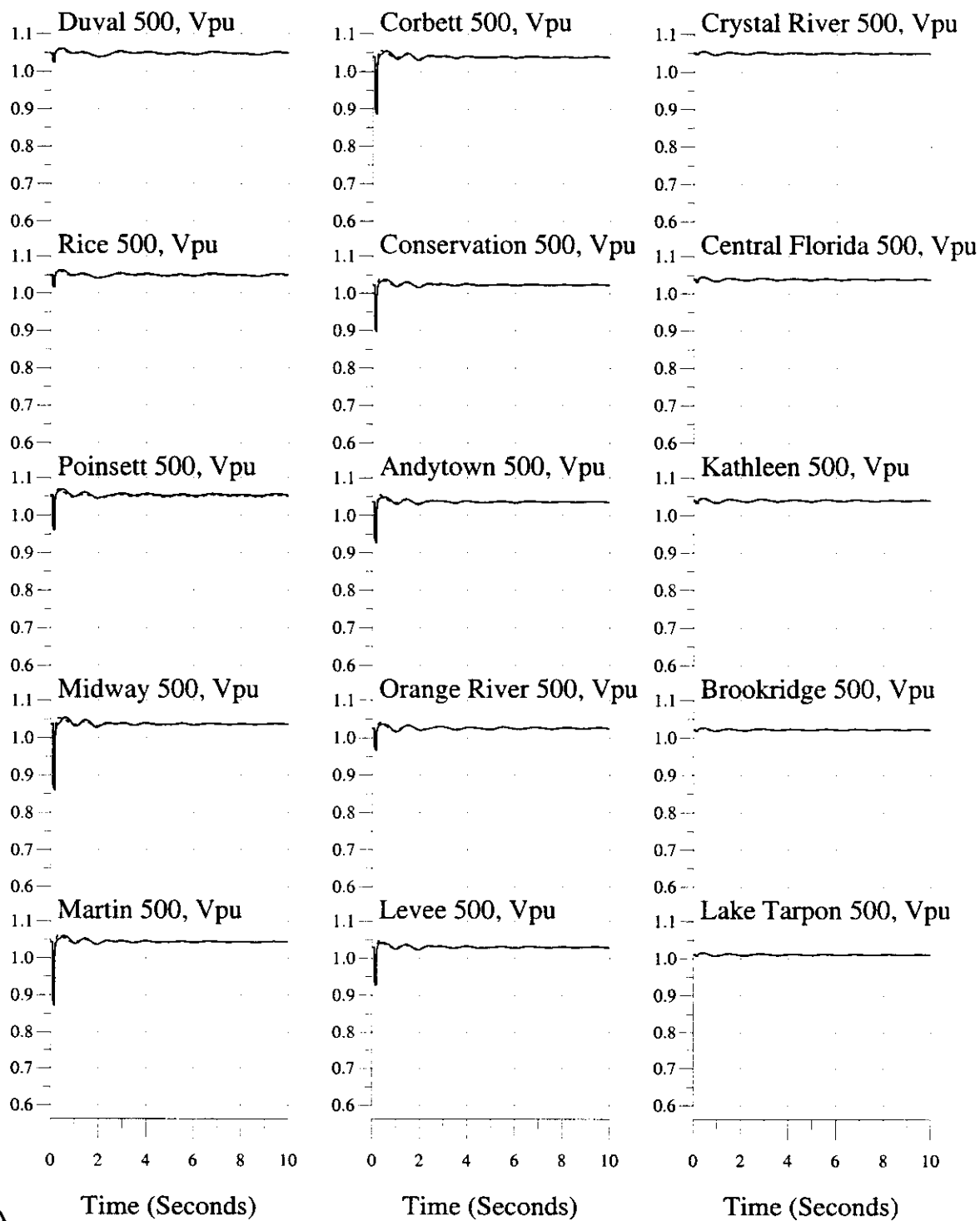
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



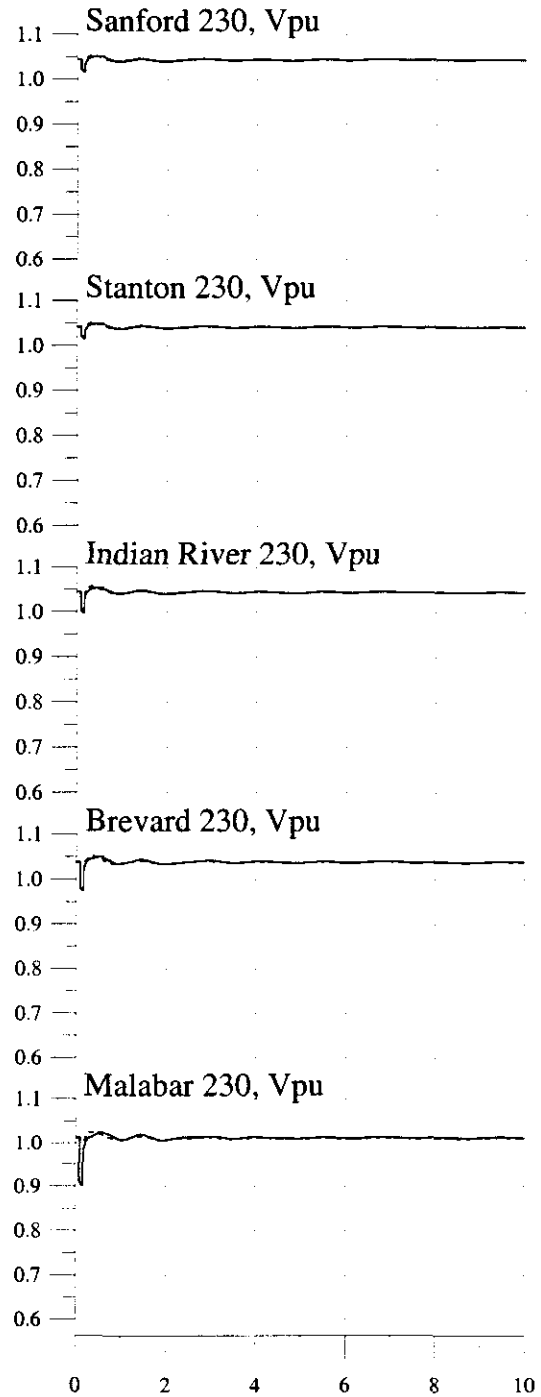
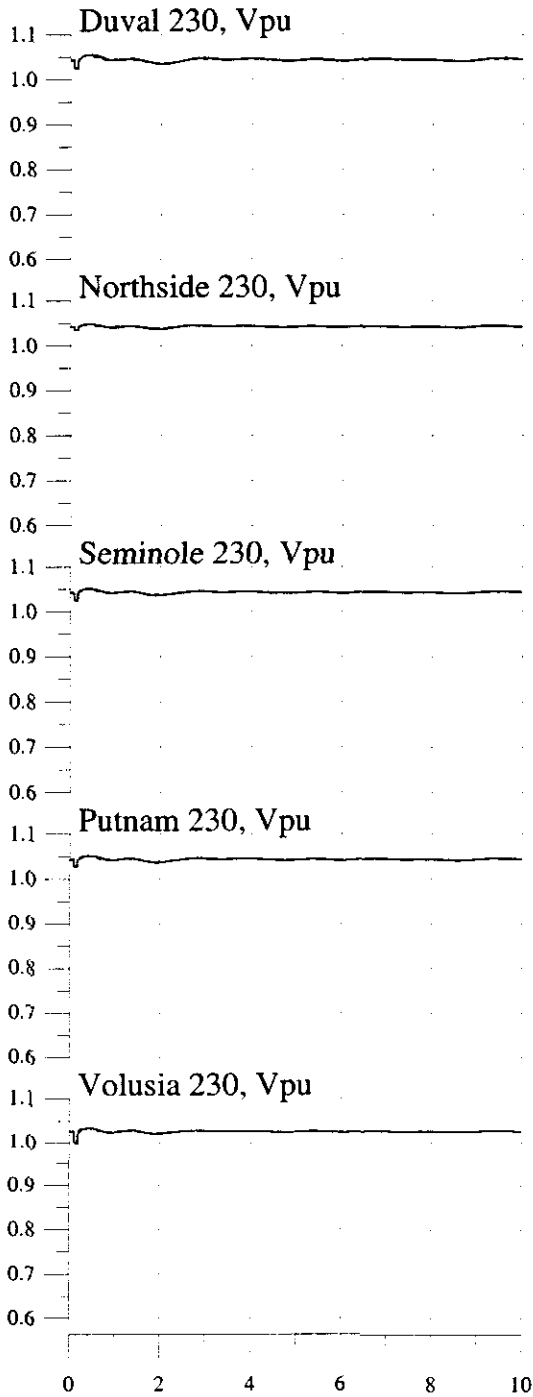
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



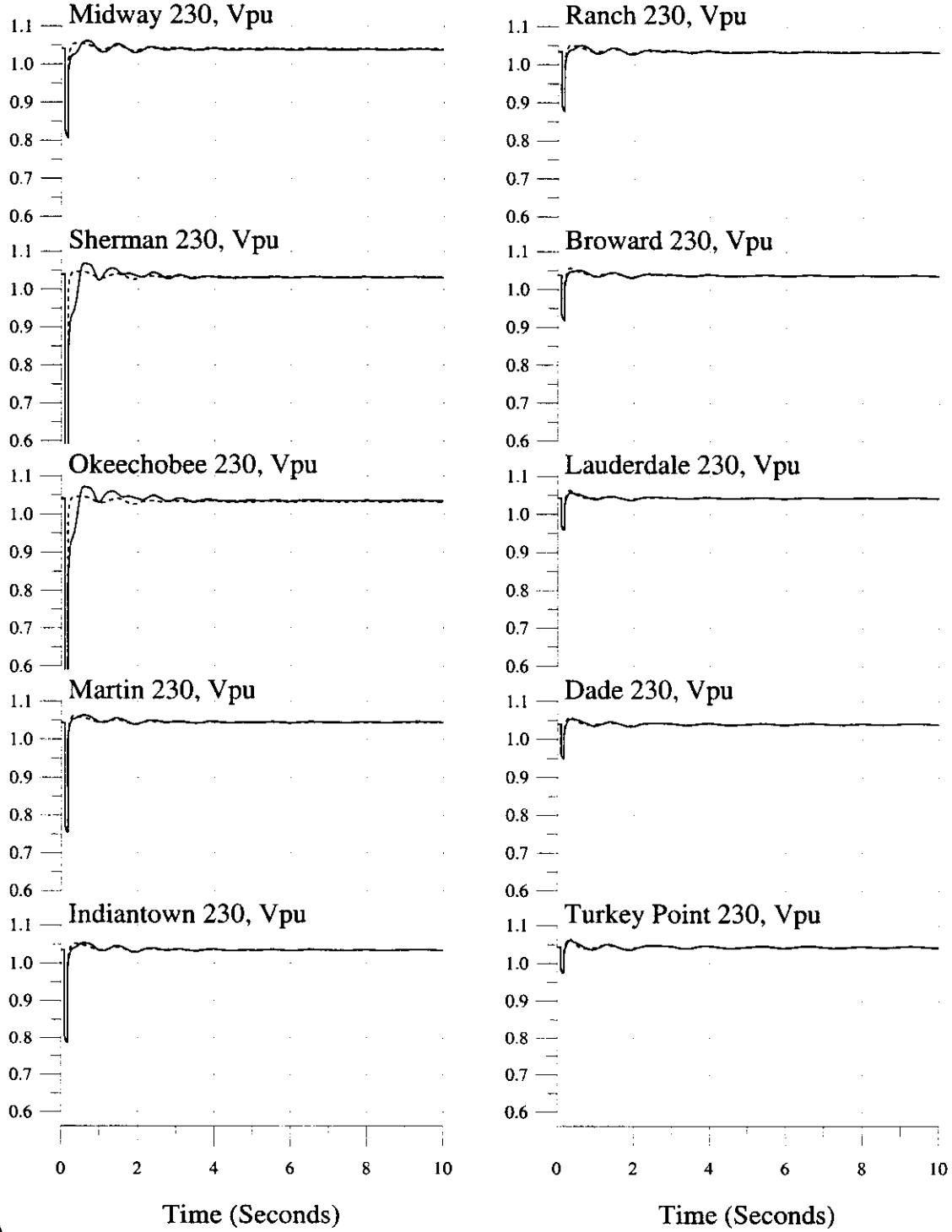
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



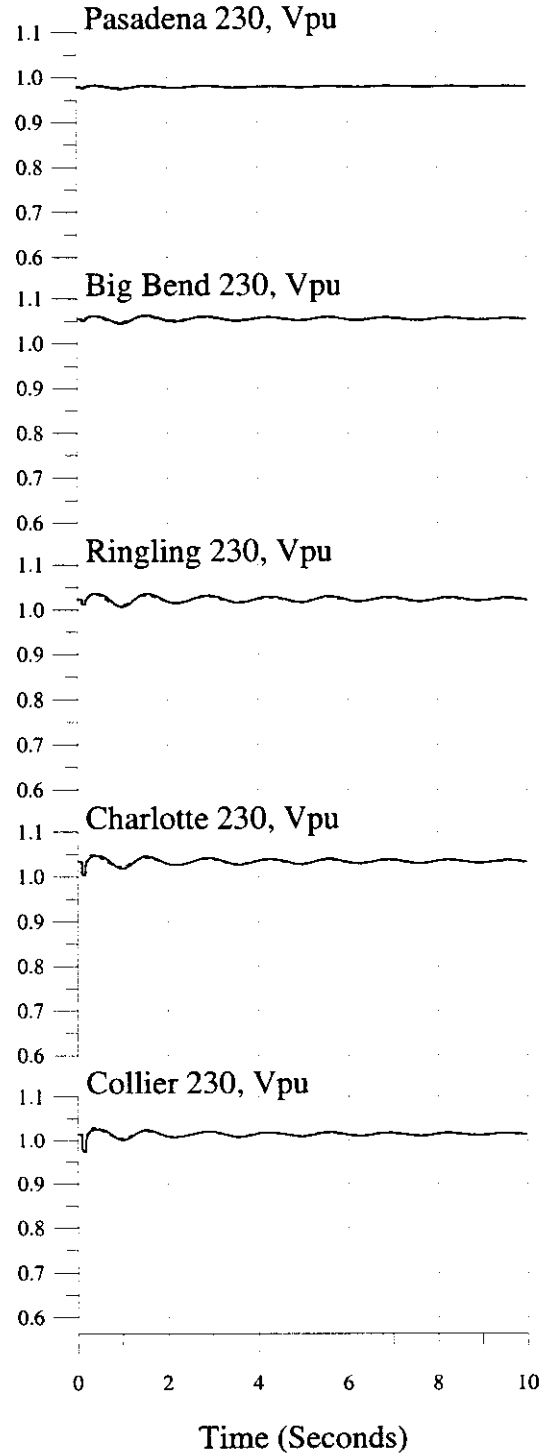
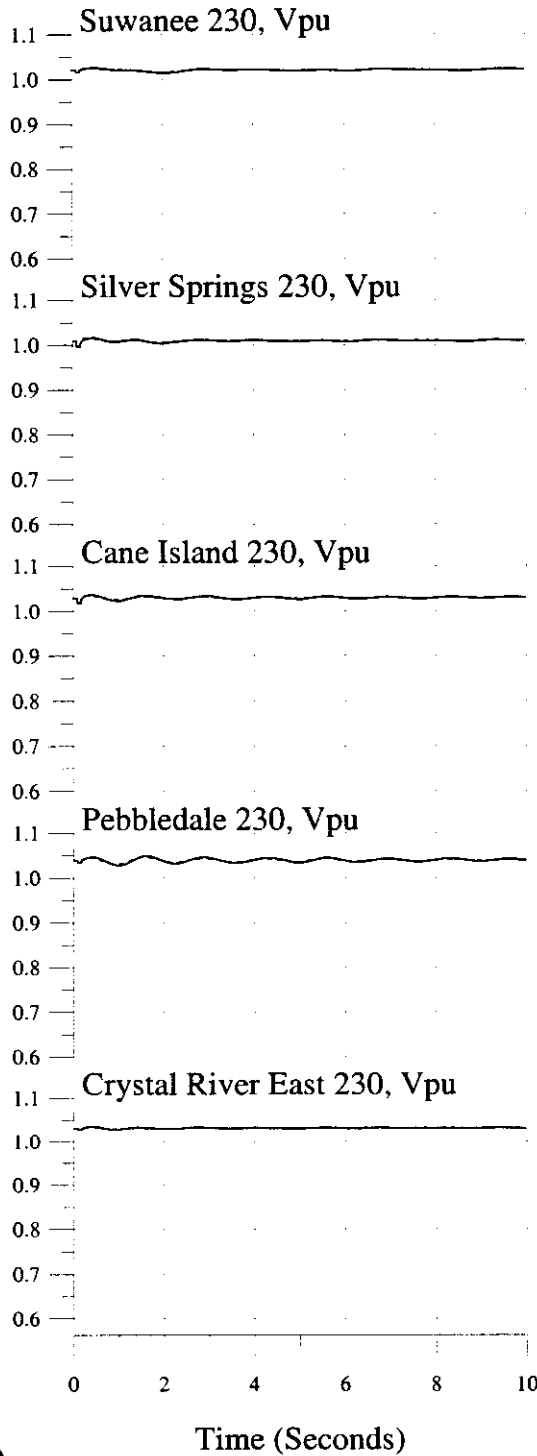
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



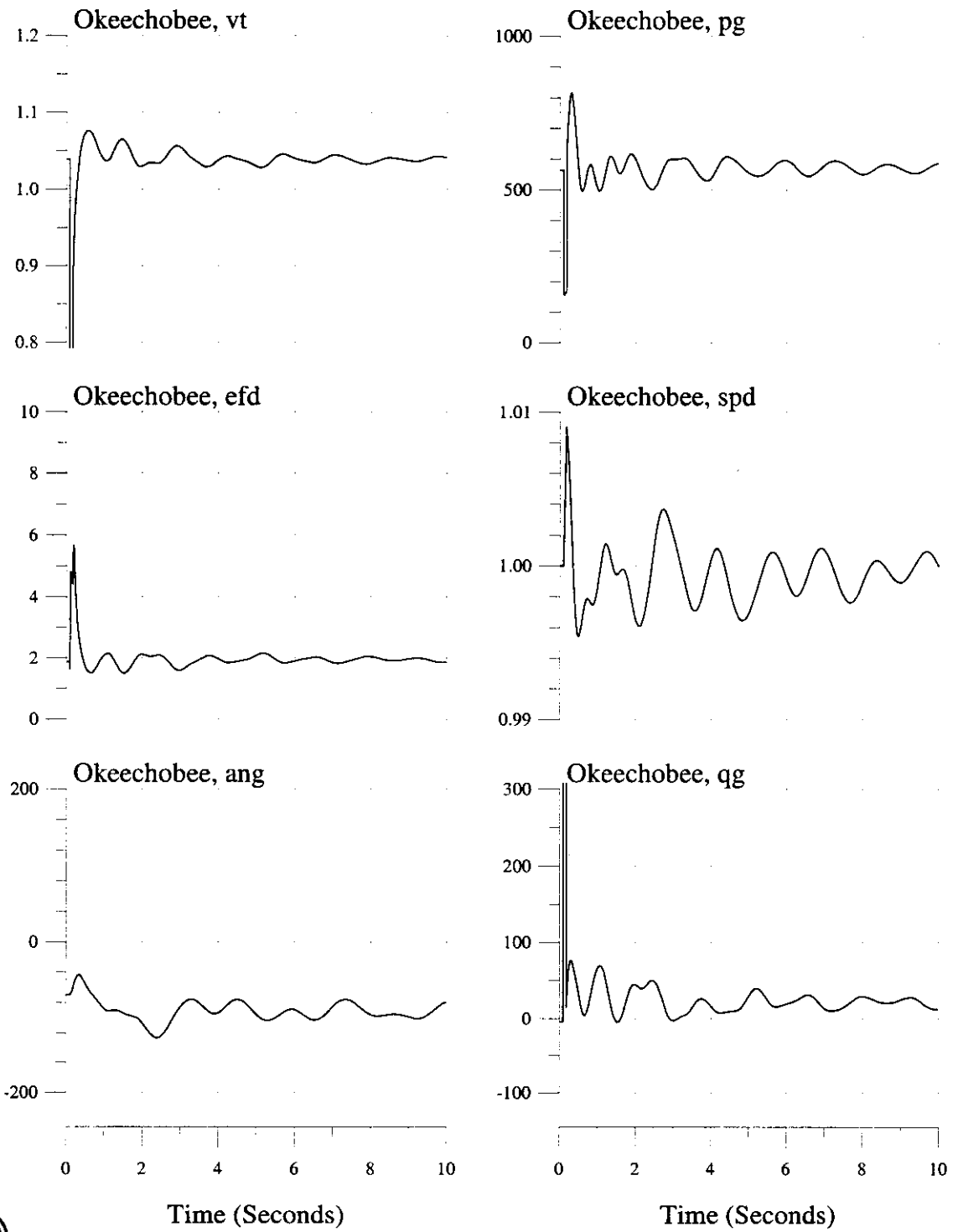
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



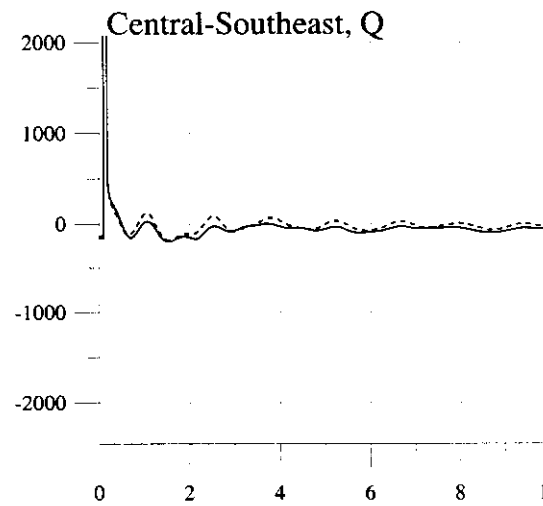
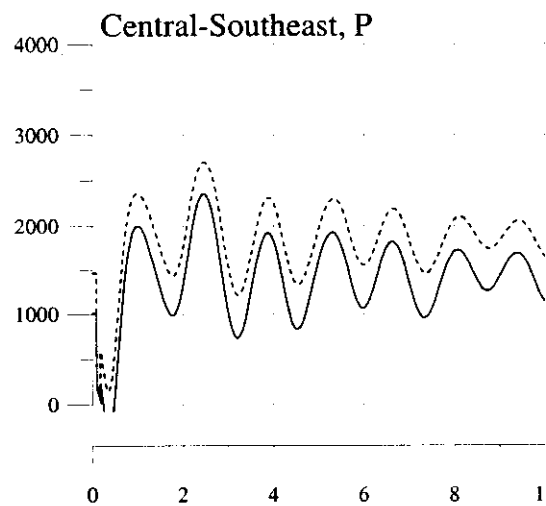
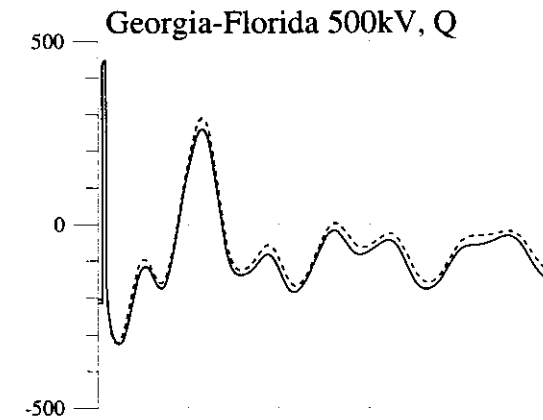
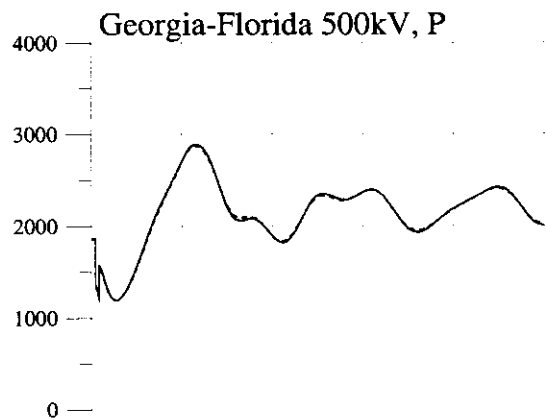
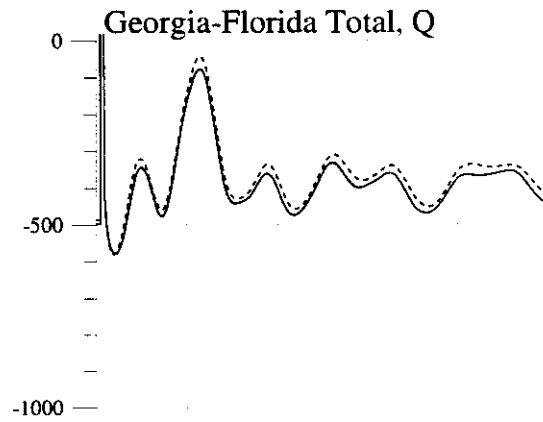
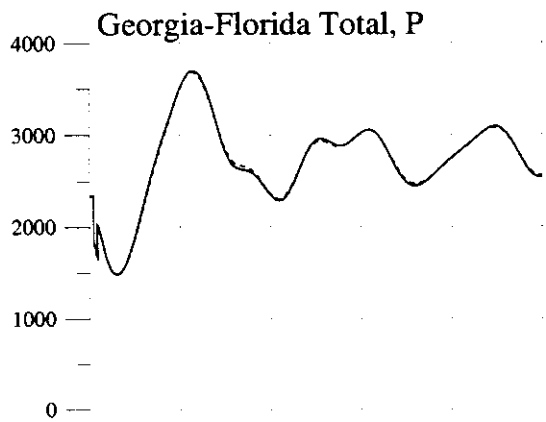
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

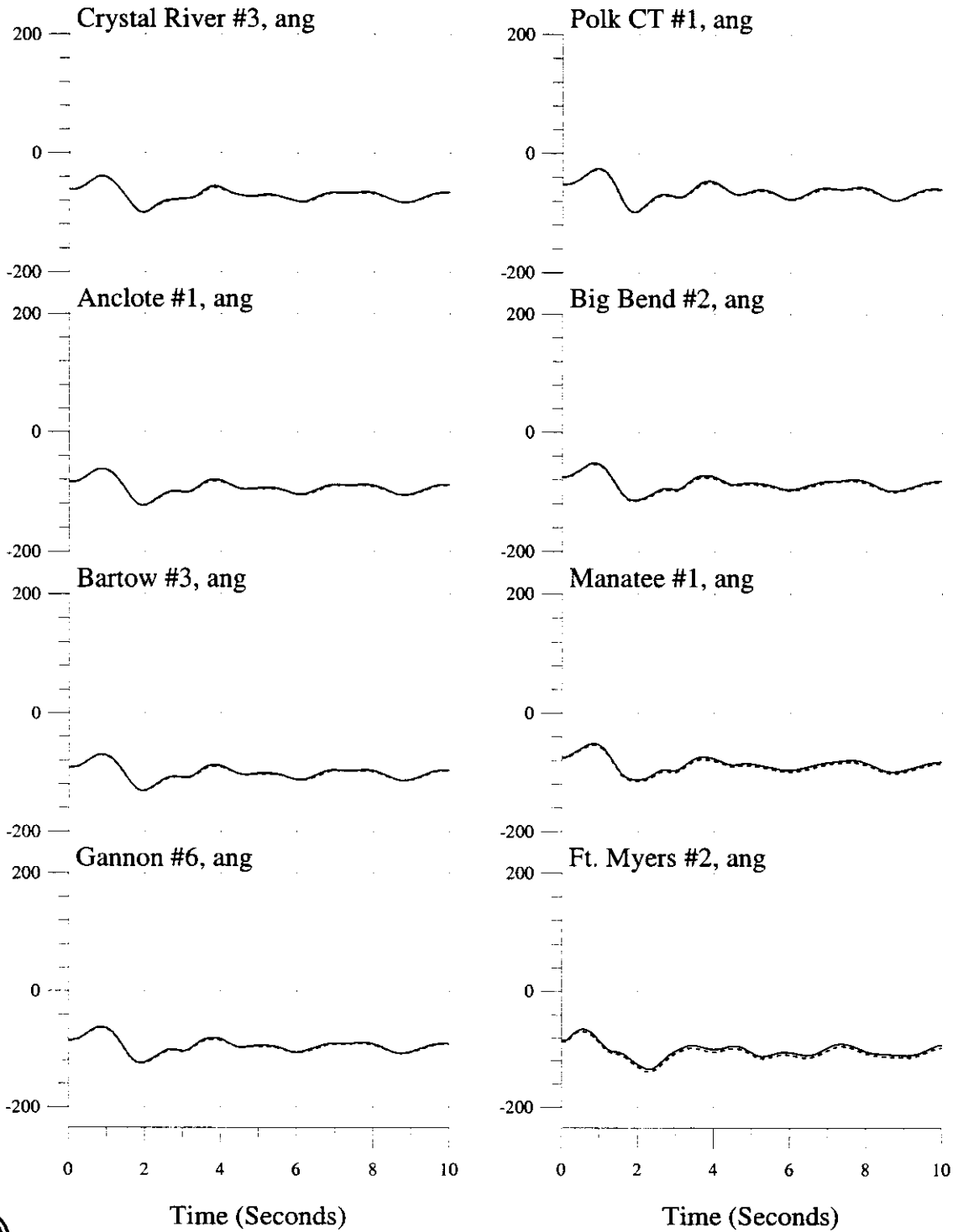
Time (Seconds)





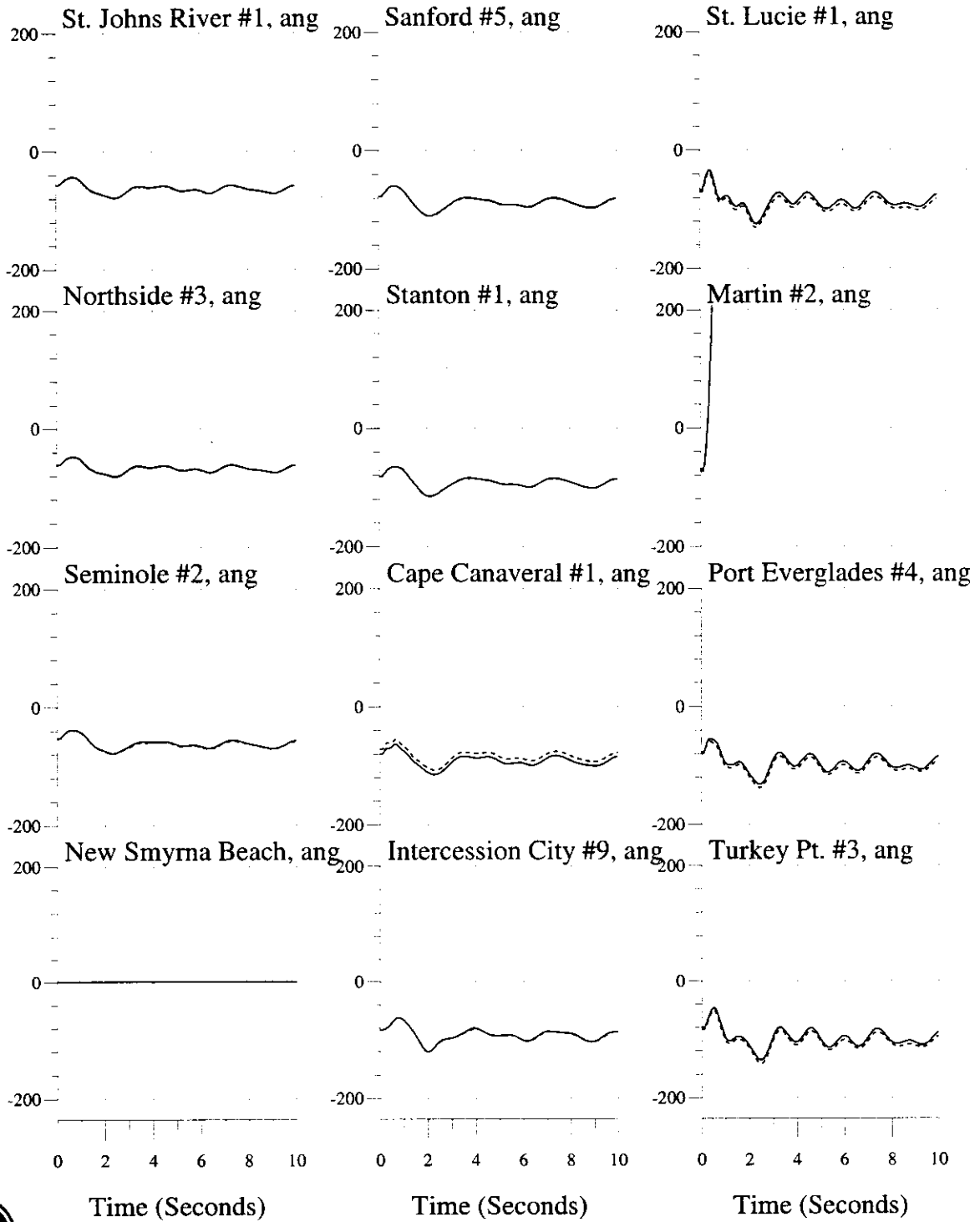
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



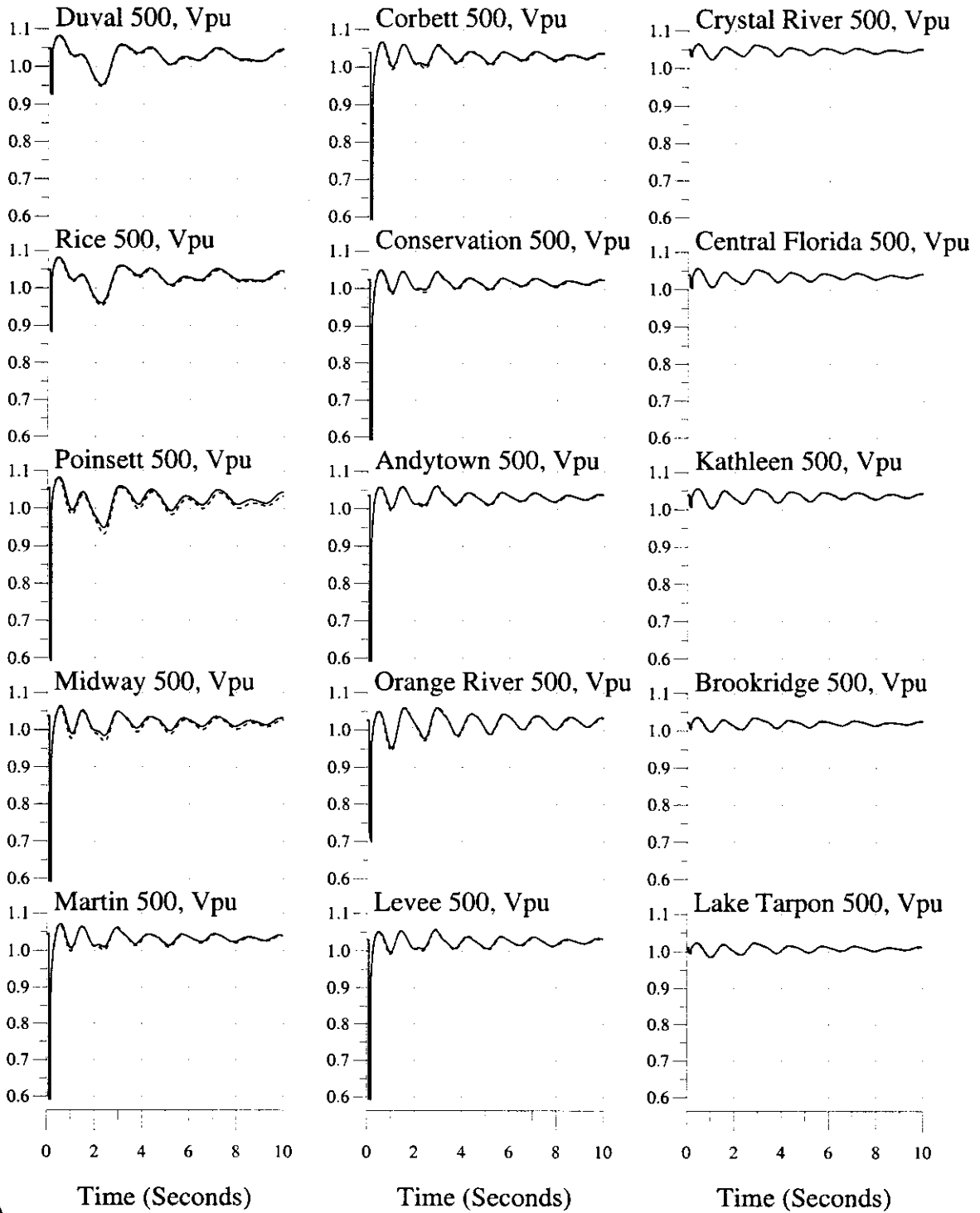
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



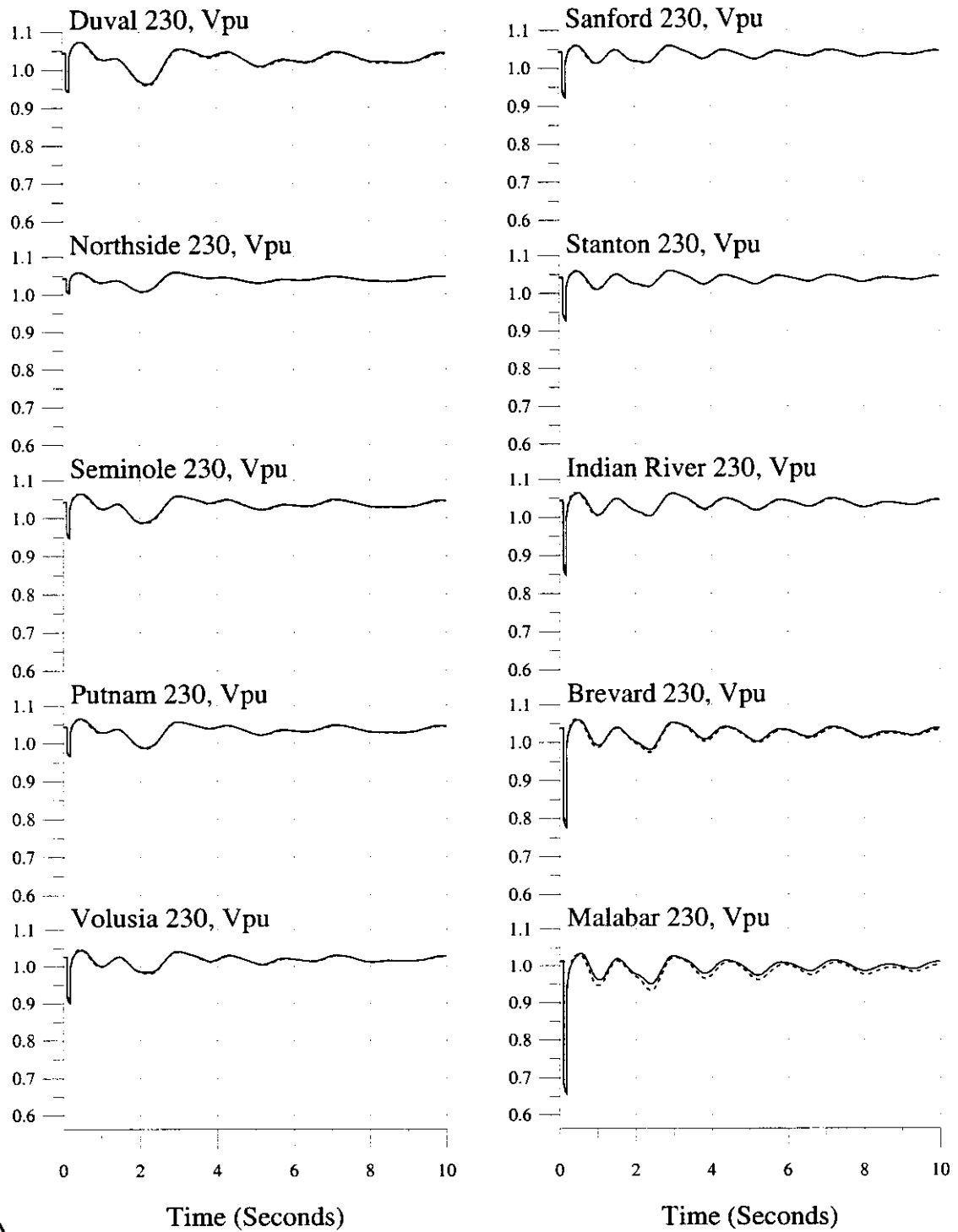
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



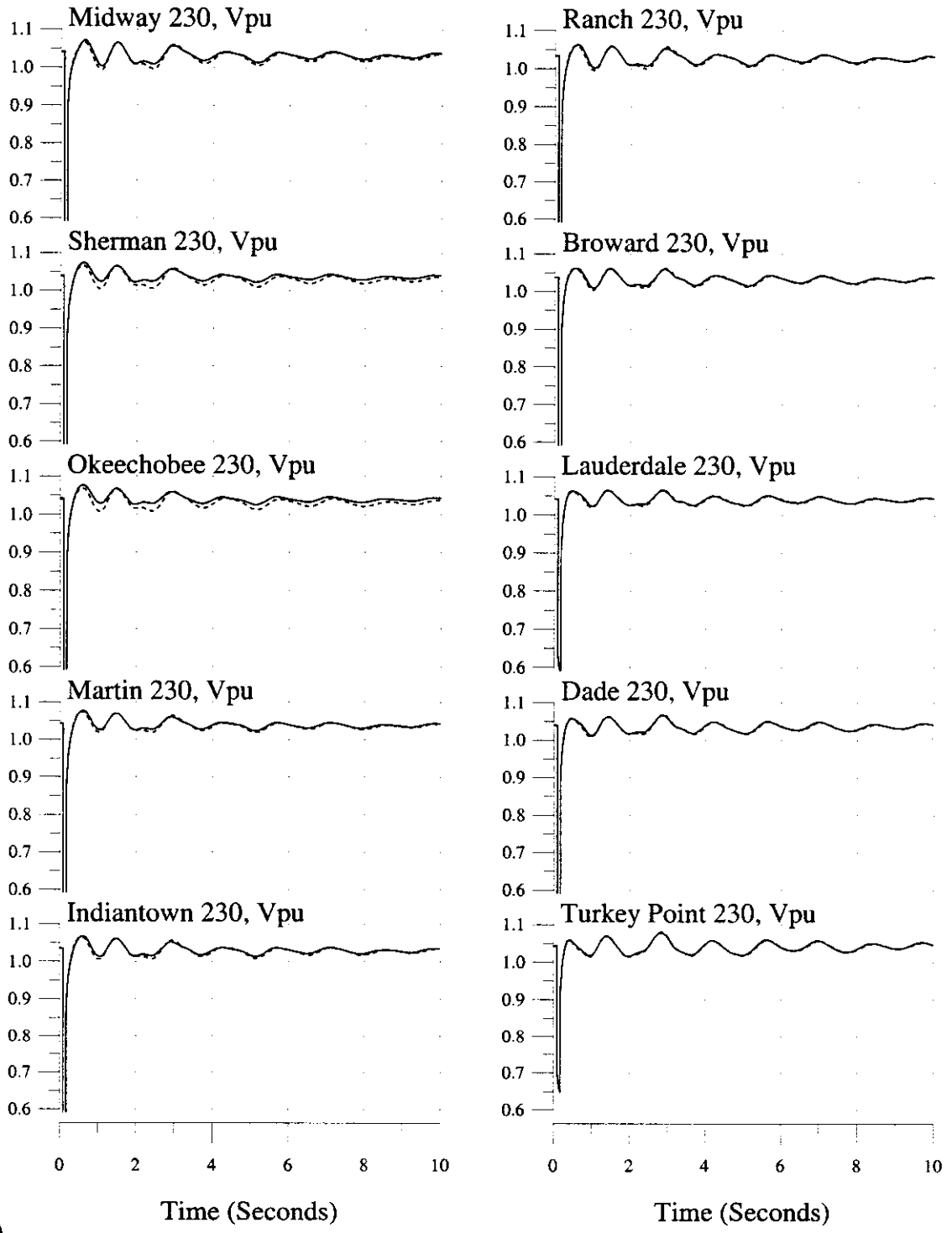
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



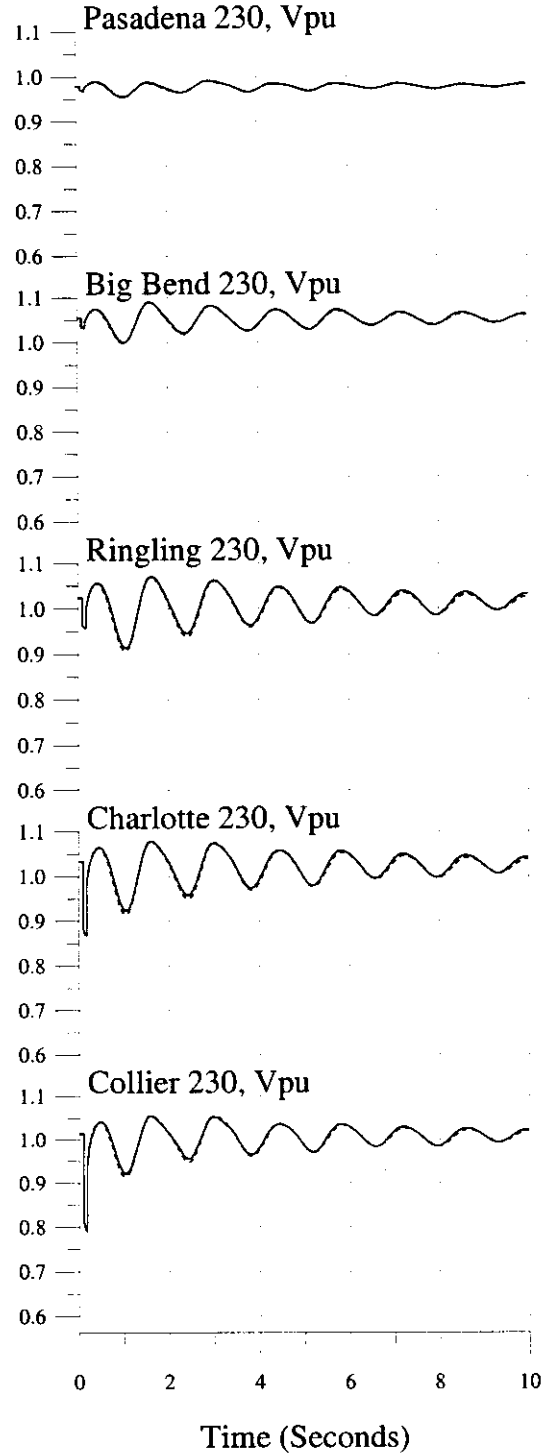
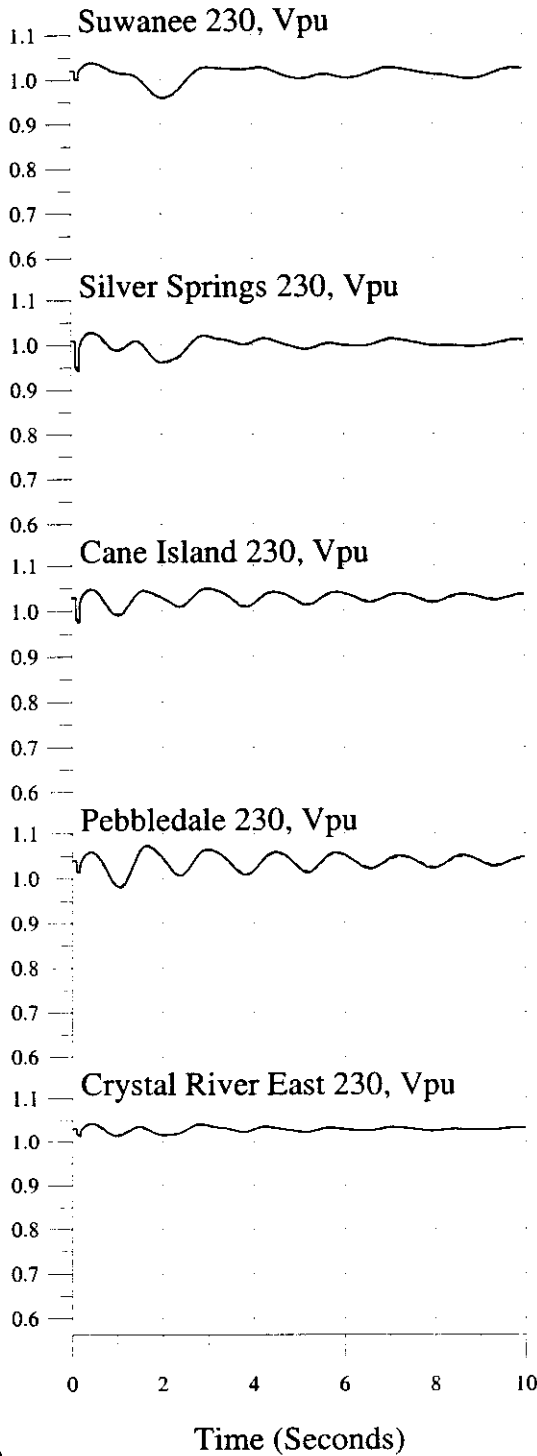
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



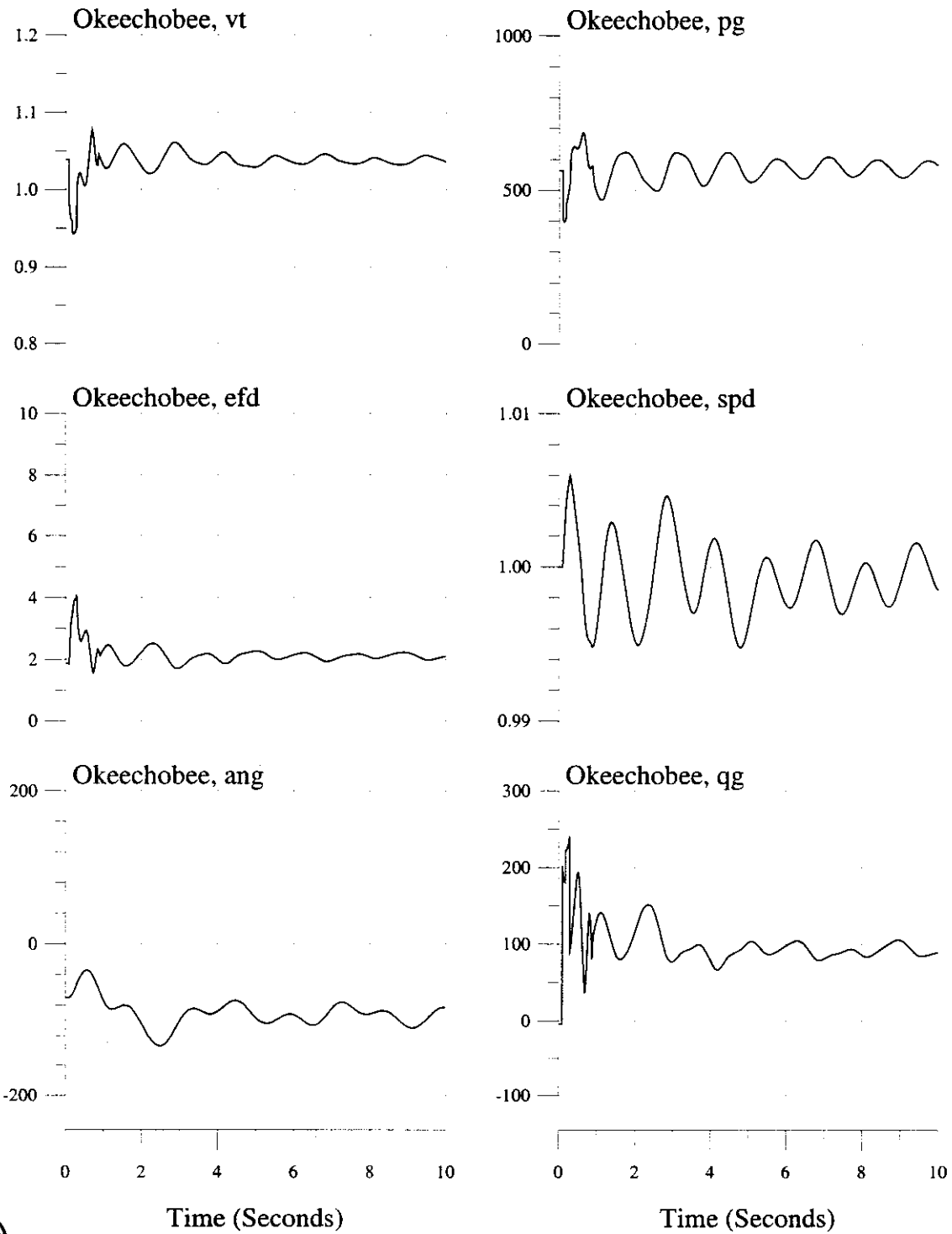
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



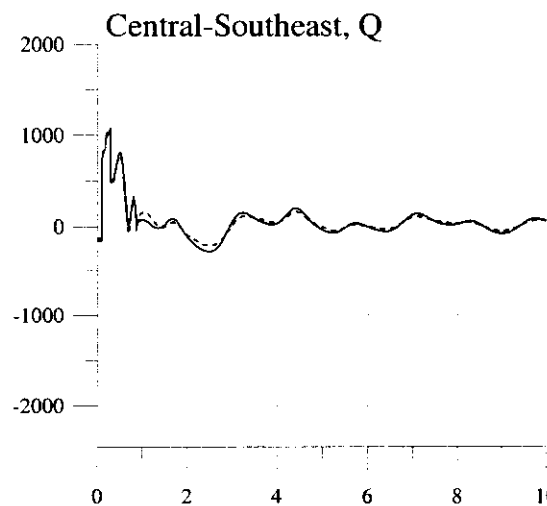
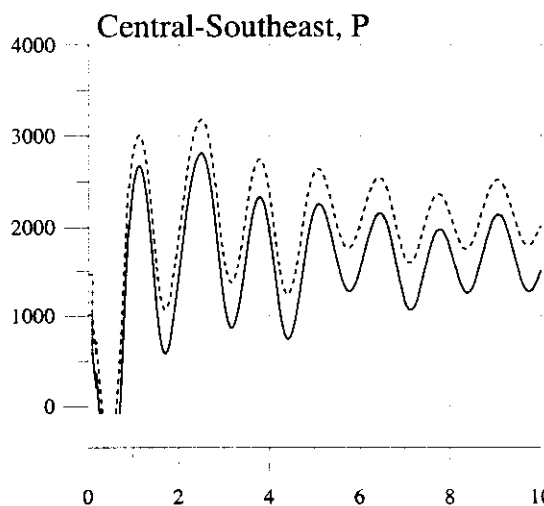
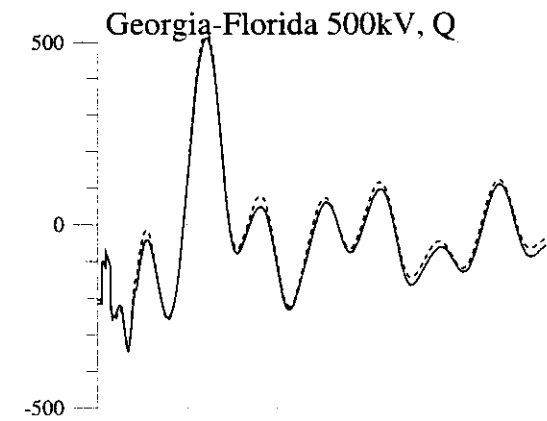
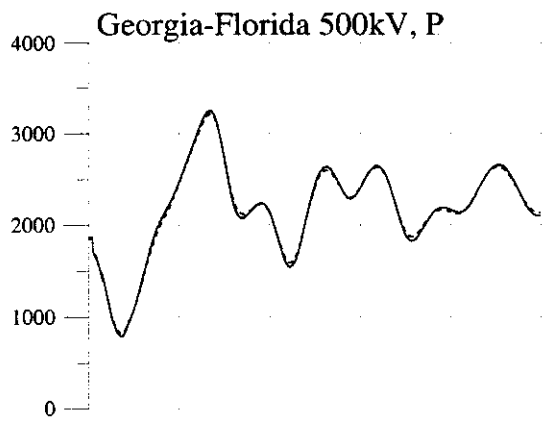
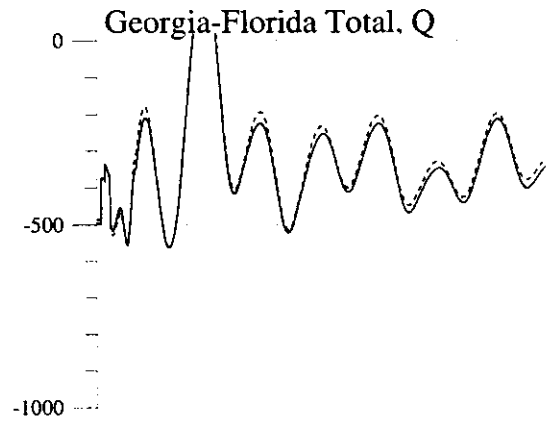
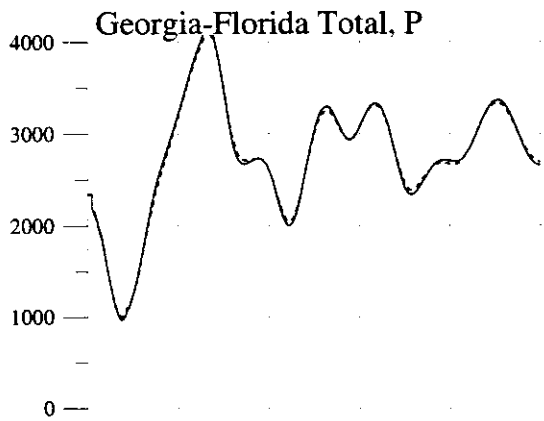
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

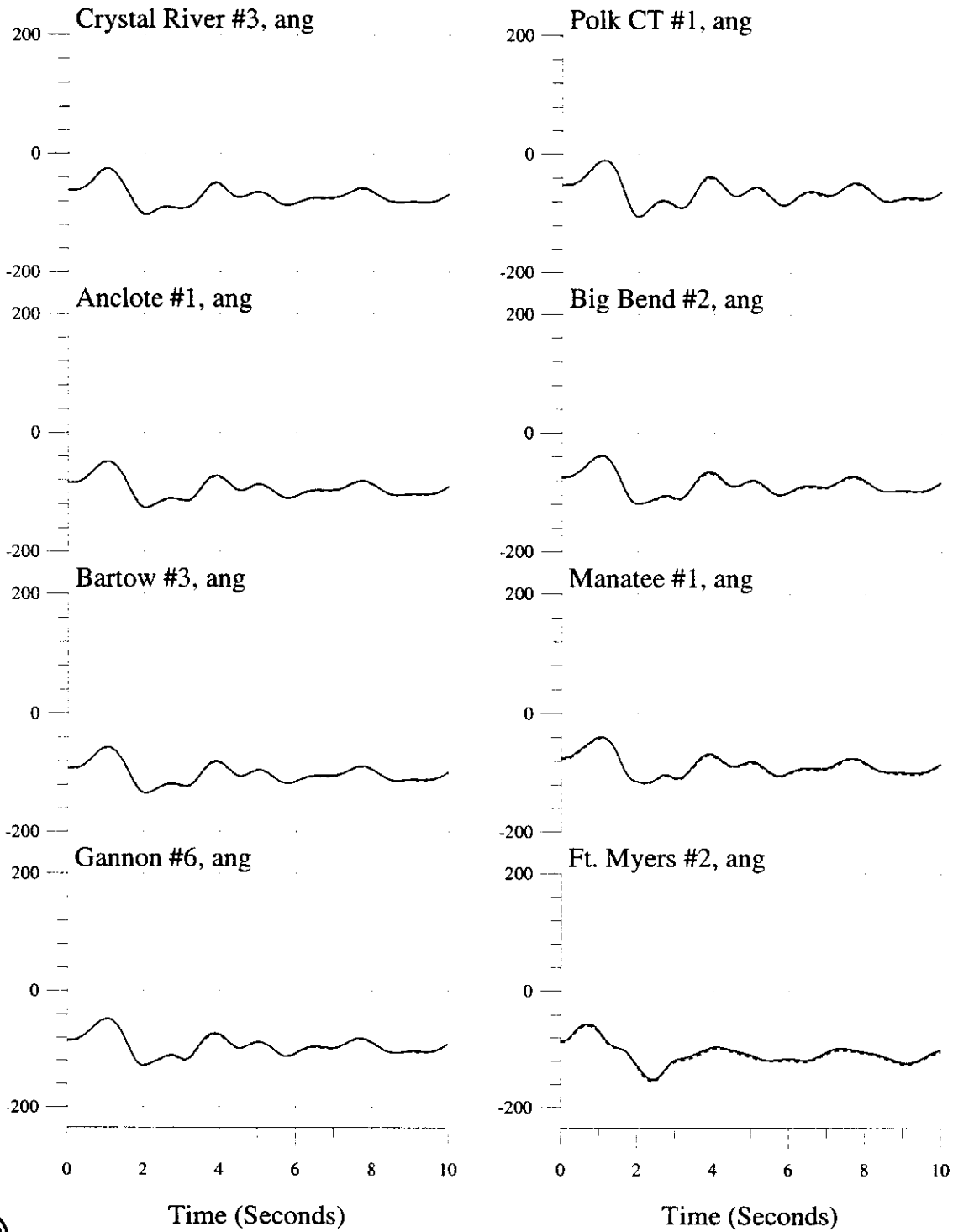
Time (Seconds)





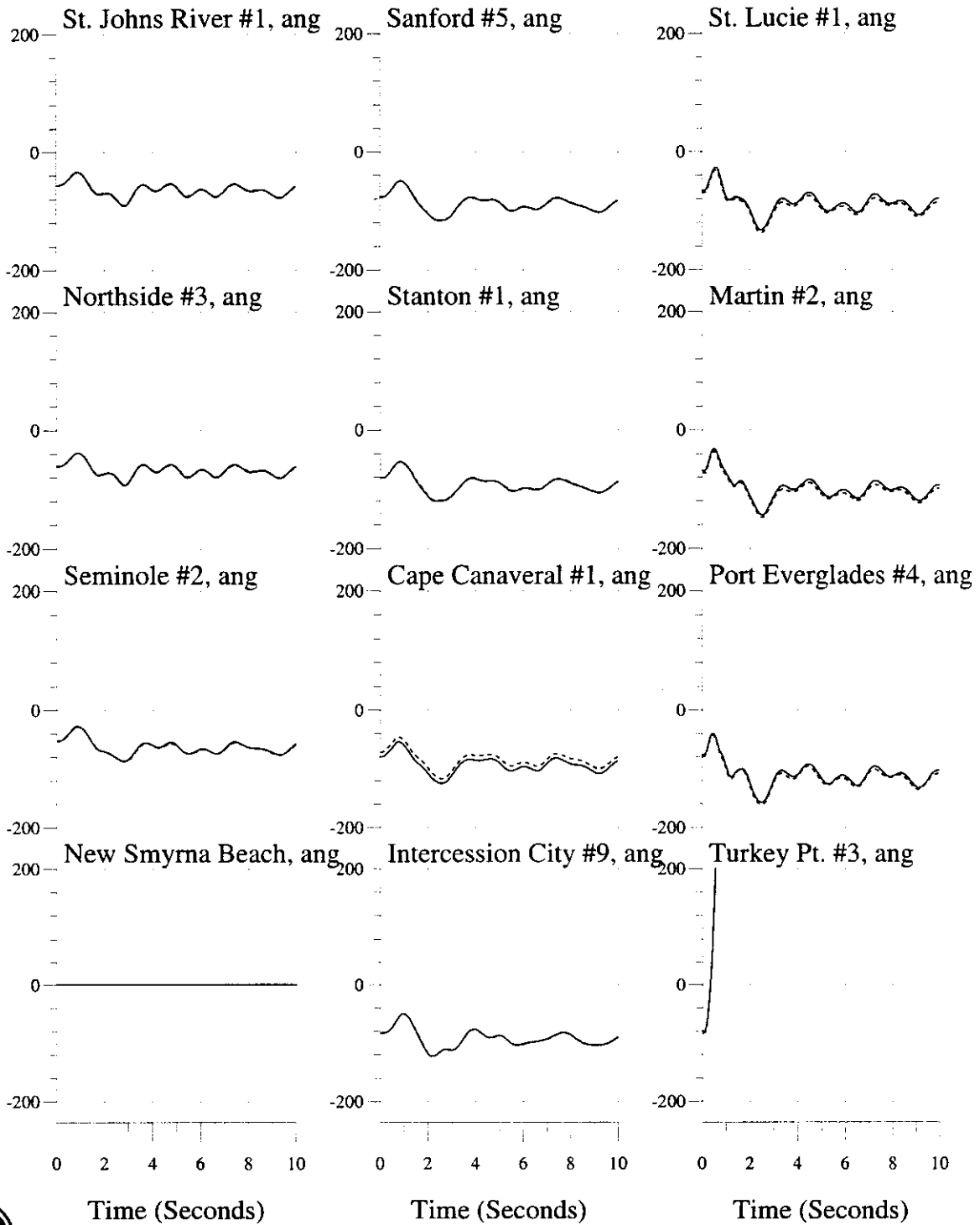
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



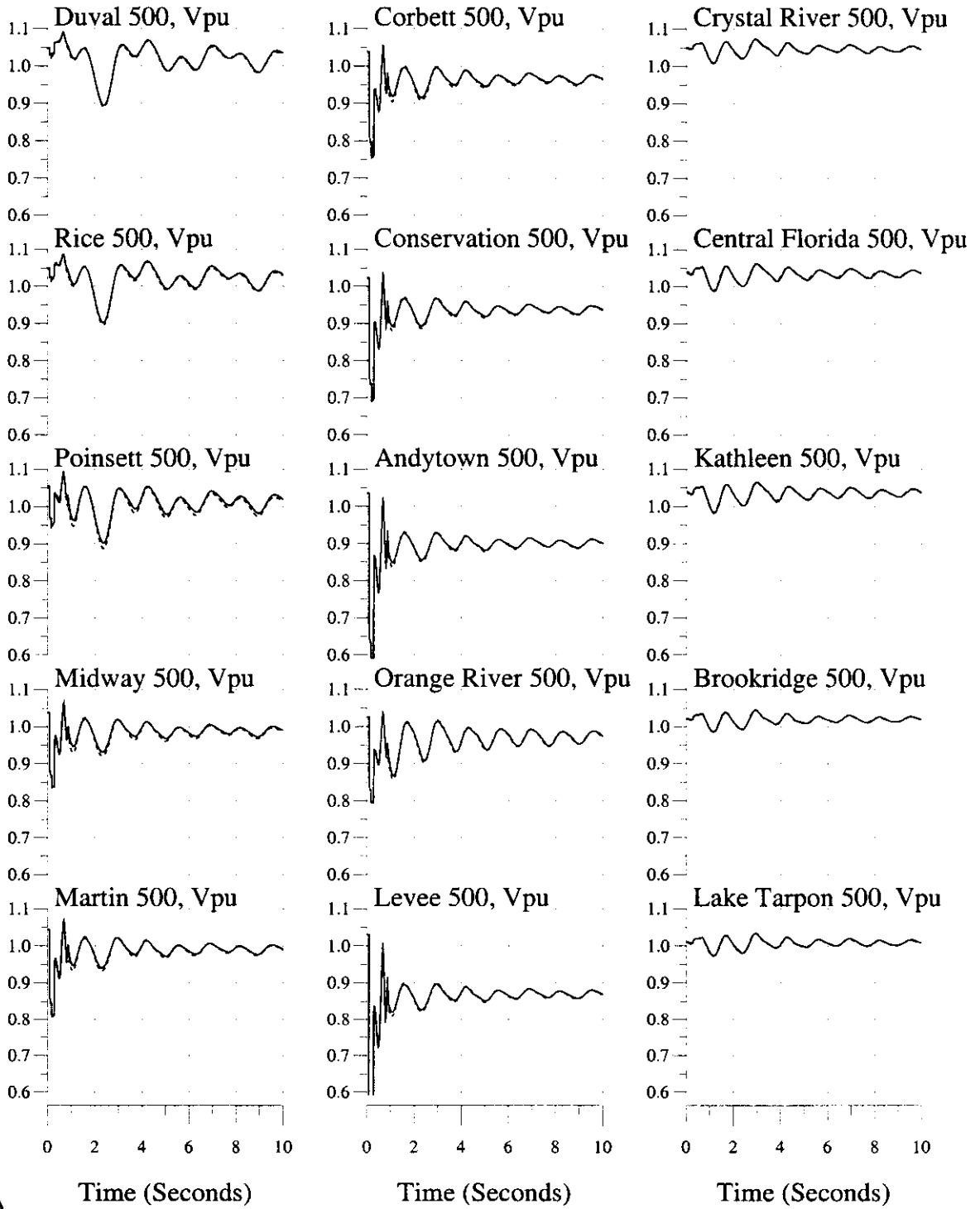
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



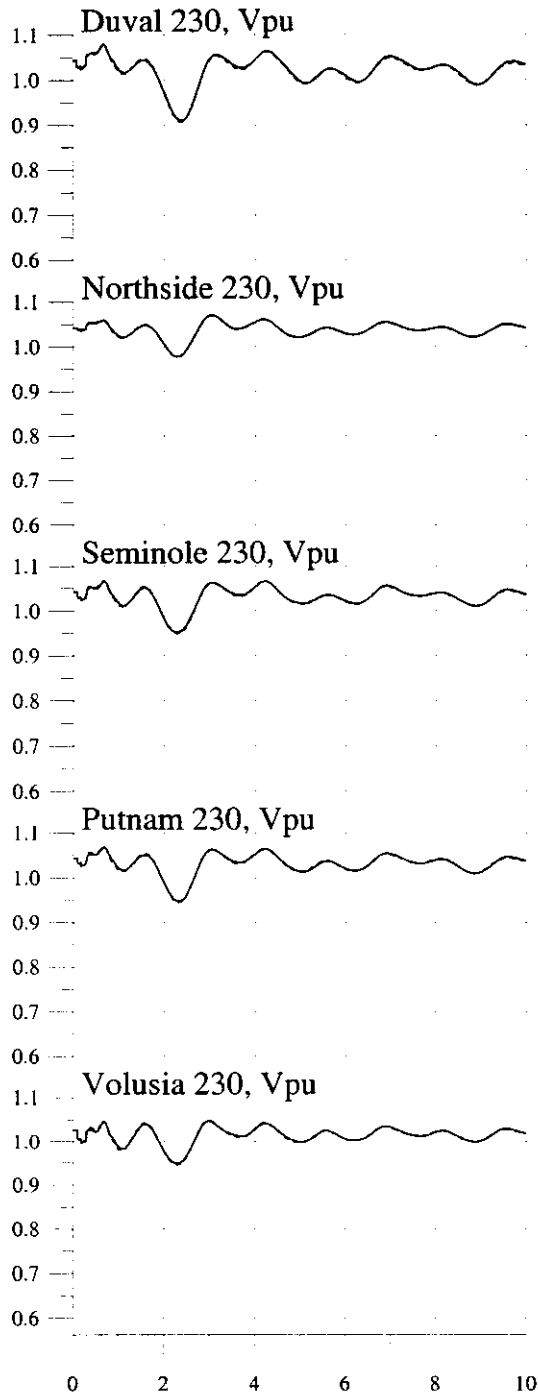
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

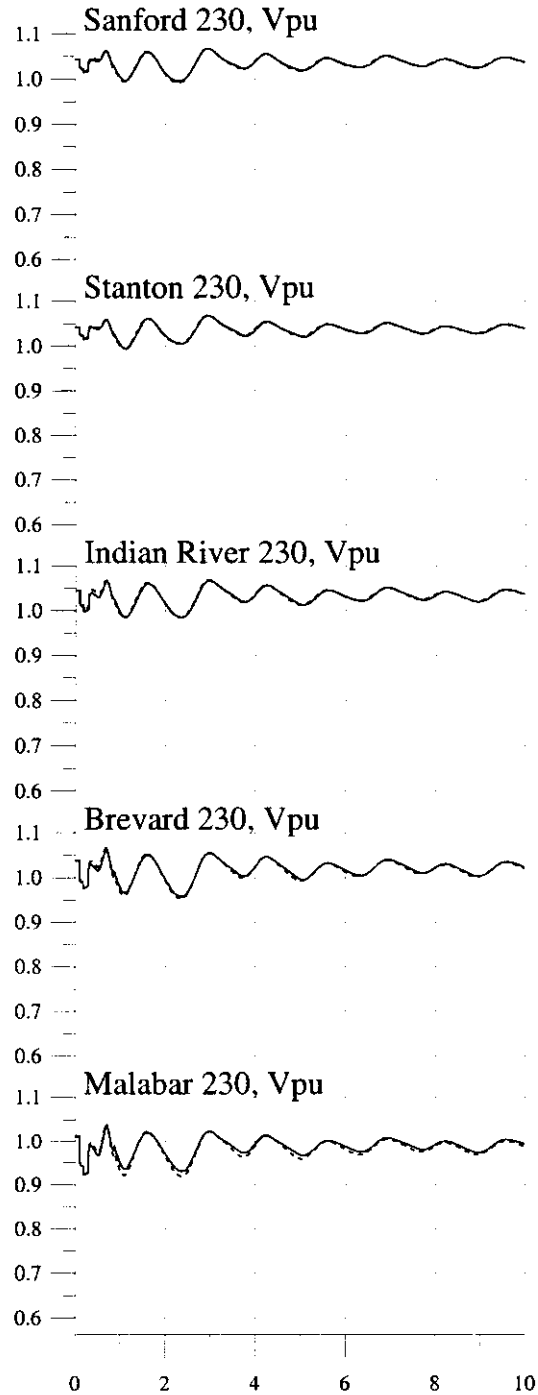


3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



Time (Seconds)

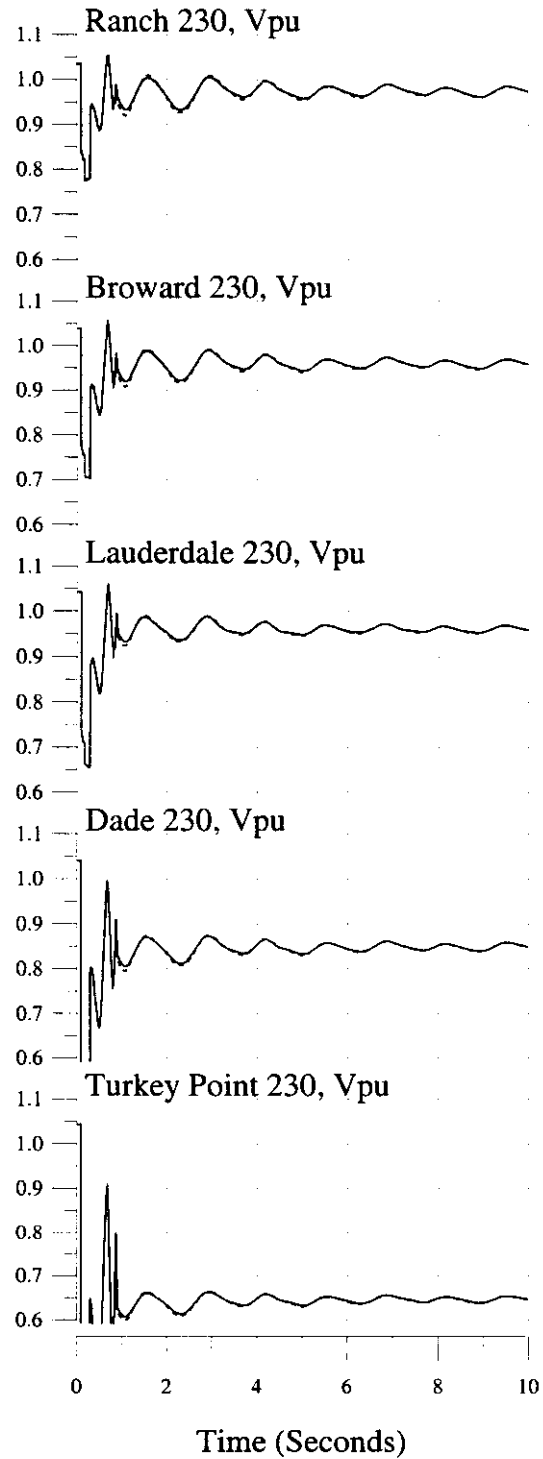
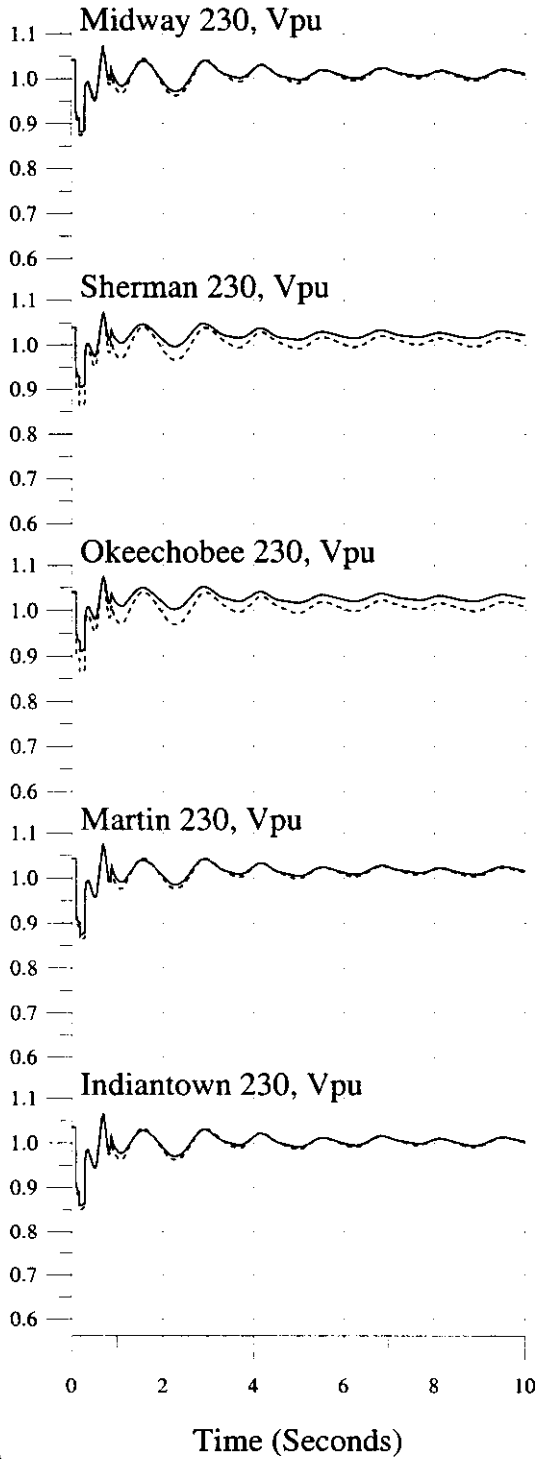


Time (Seconds)



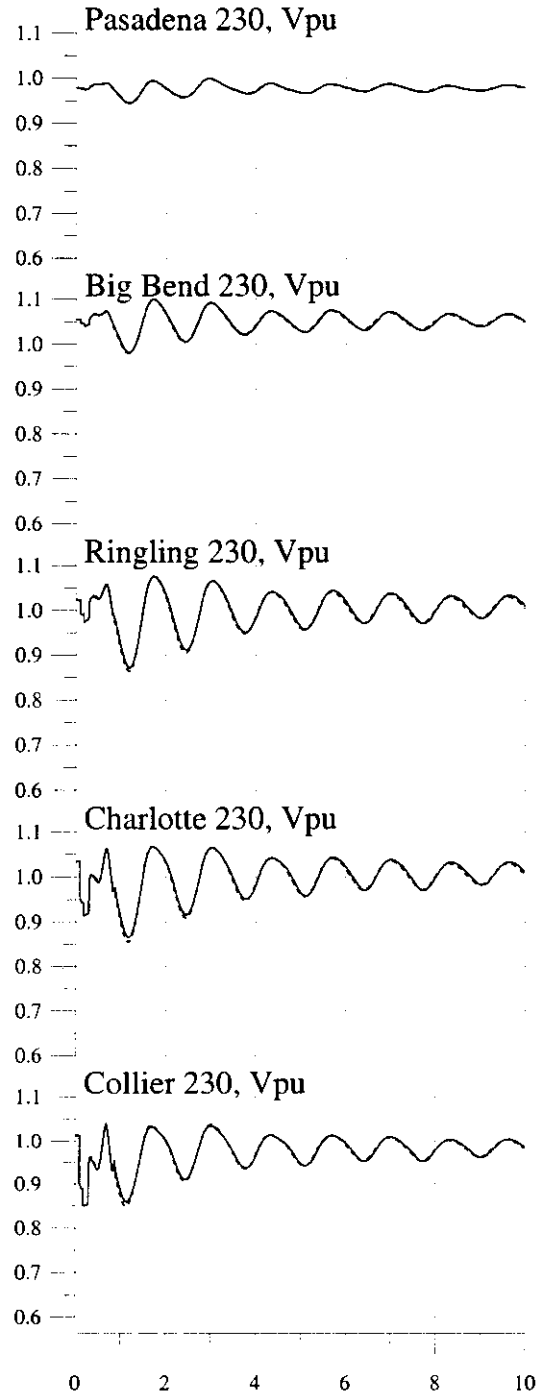
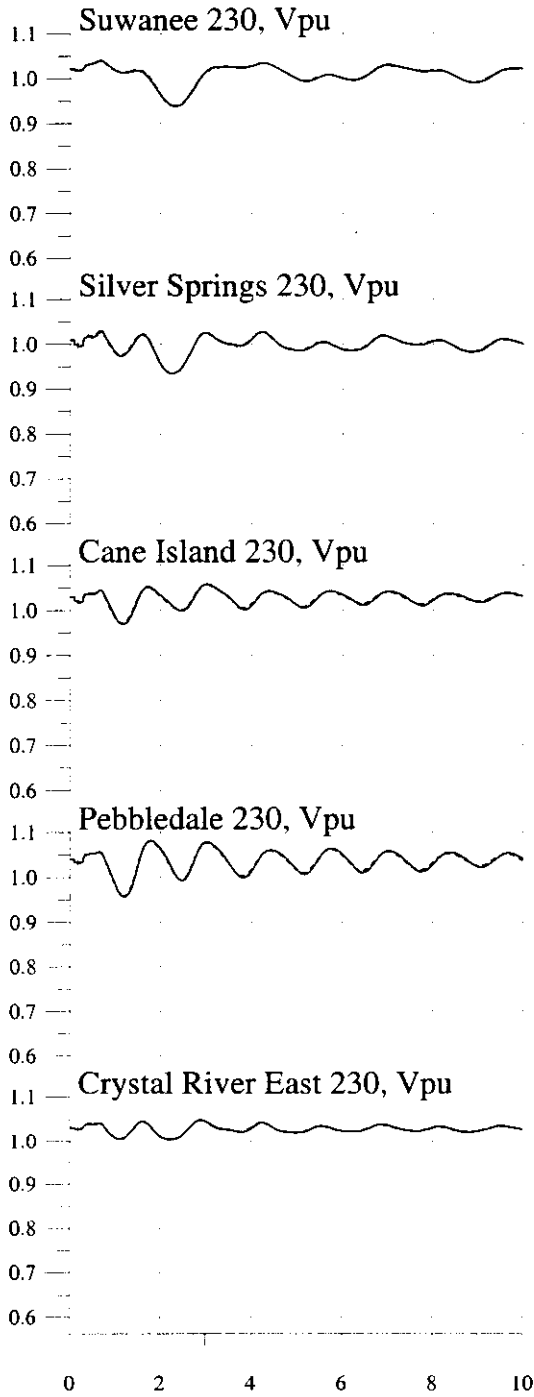
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

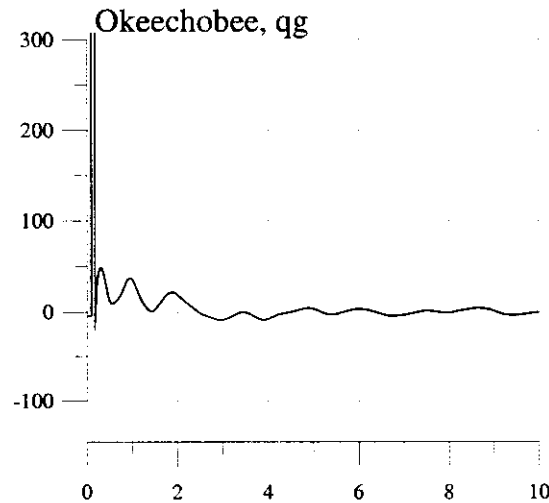
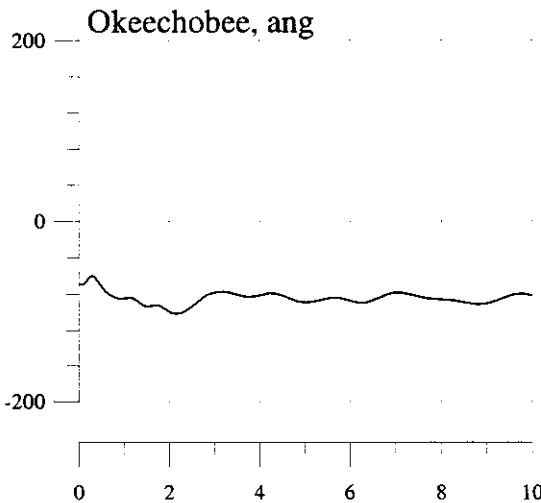
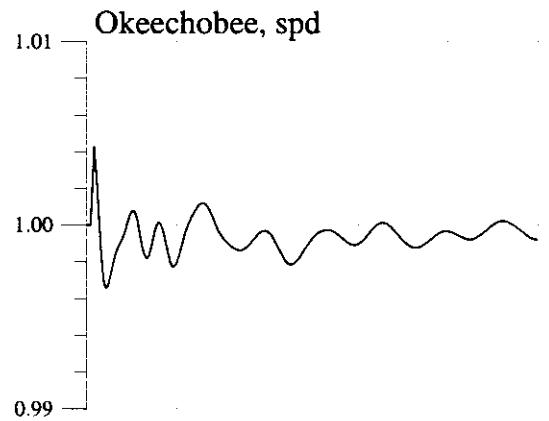
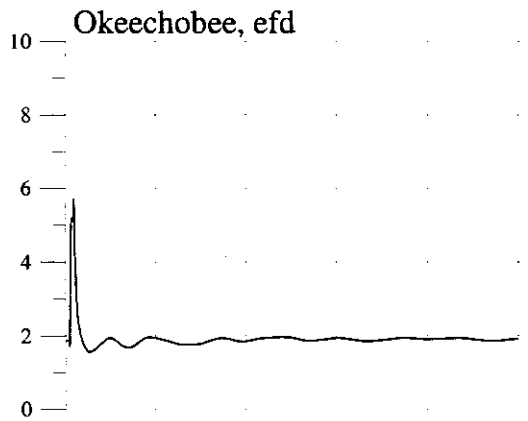
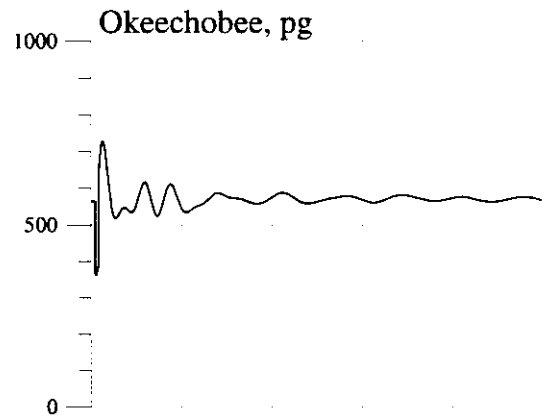
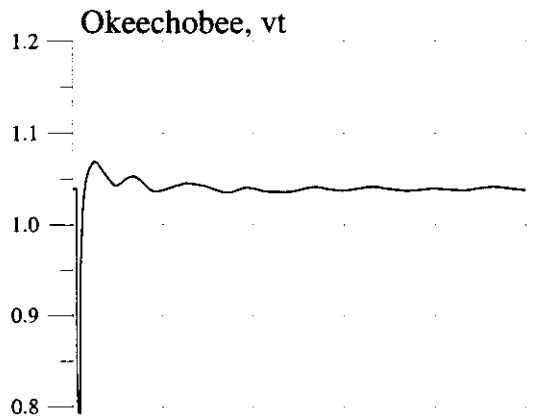
Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without





3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



0 2 4 6 8 10

0 2 4 6 8 10

Time (Seconds)

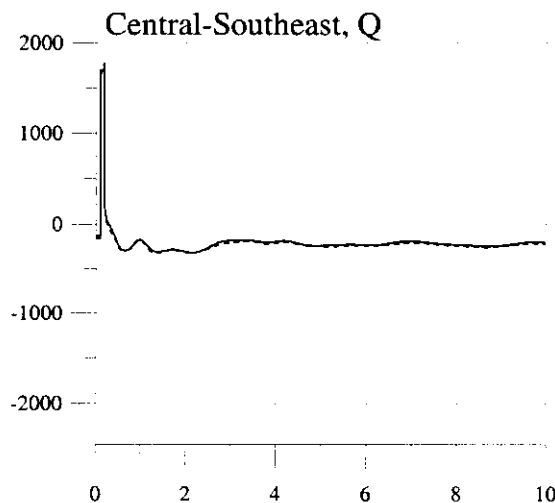
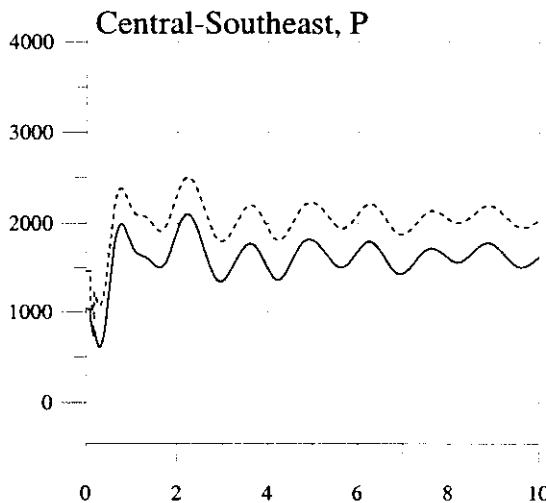
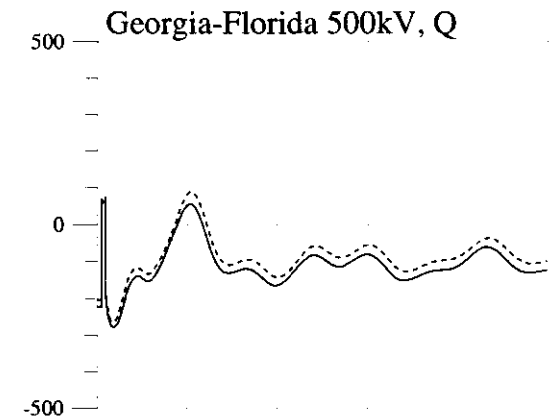
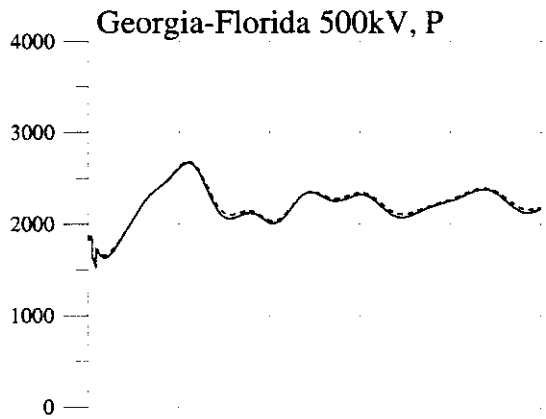
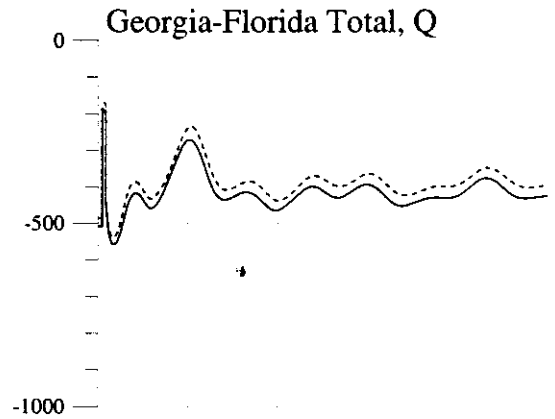
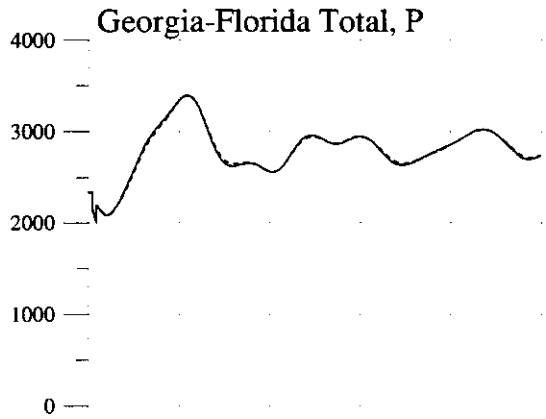
Time (Seconds)





3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



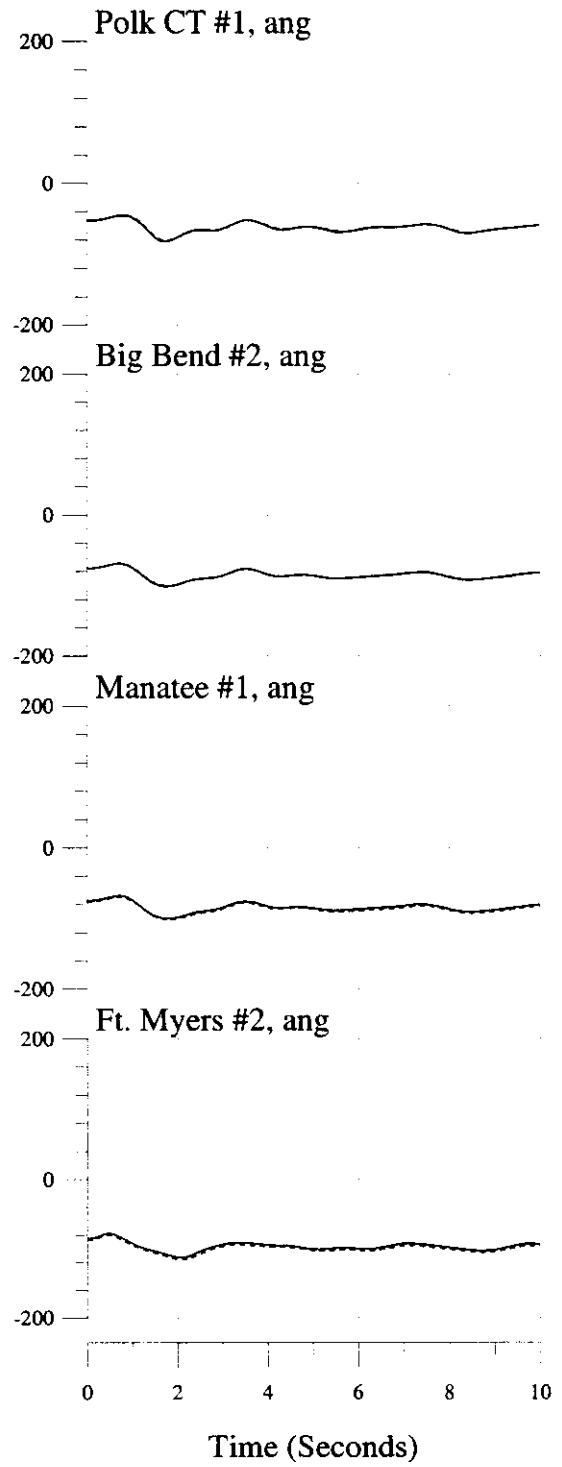
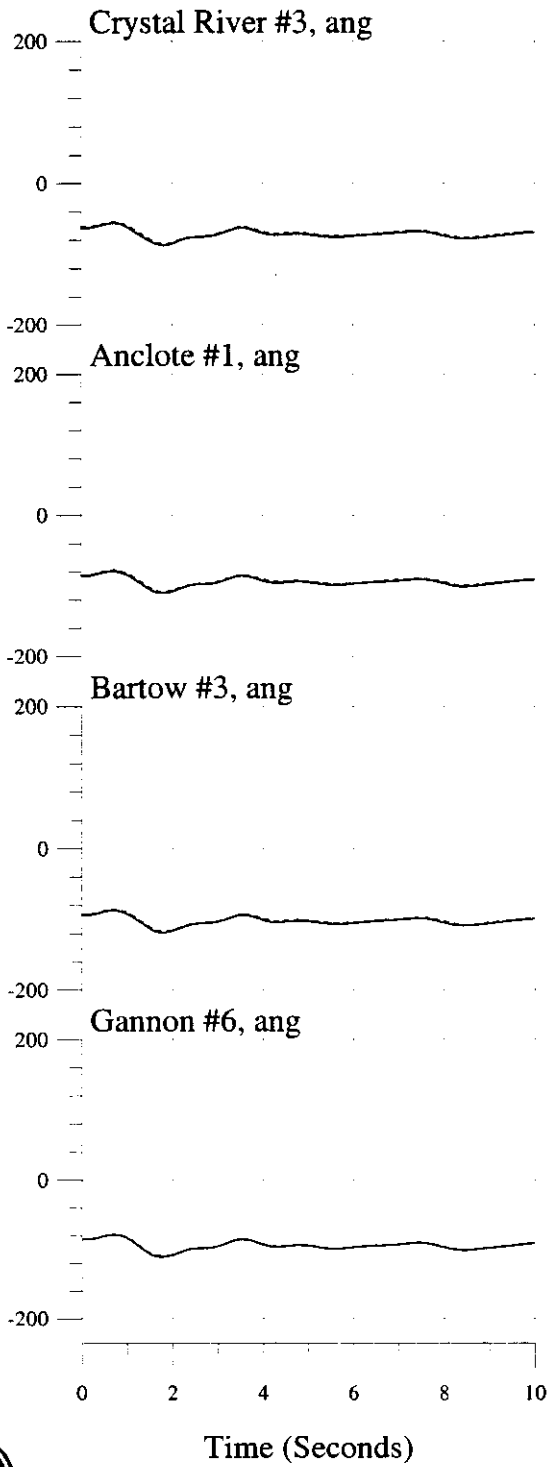
Time (Seconds)

Time (Seconds)



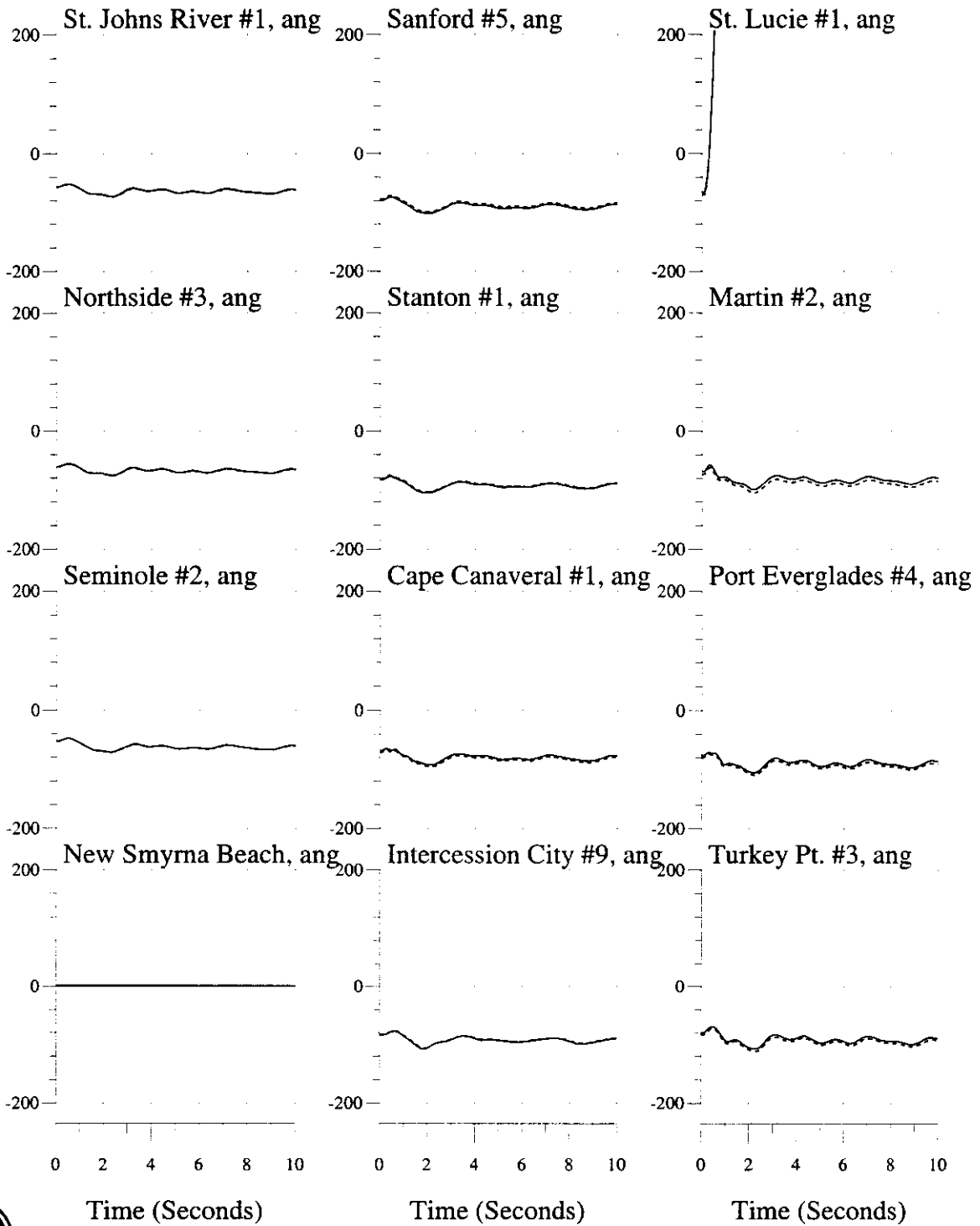
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



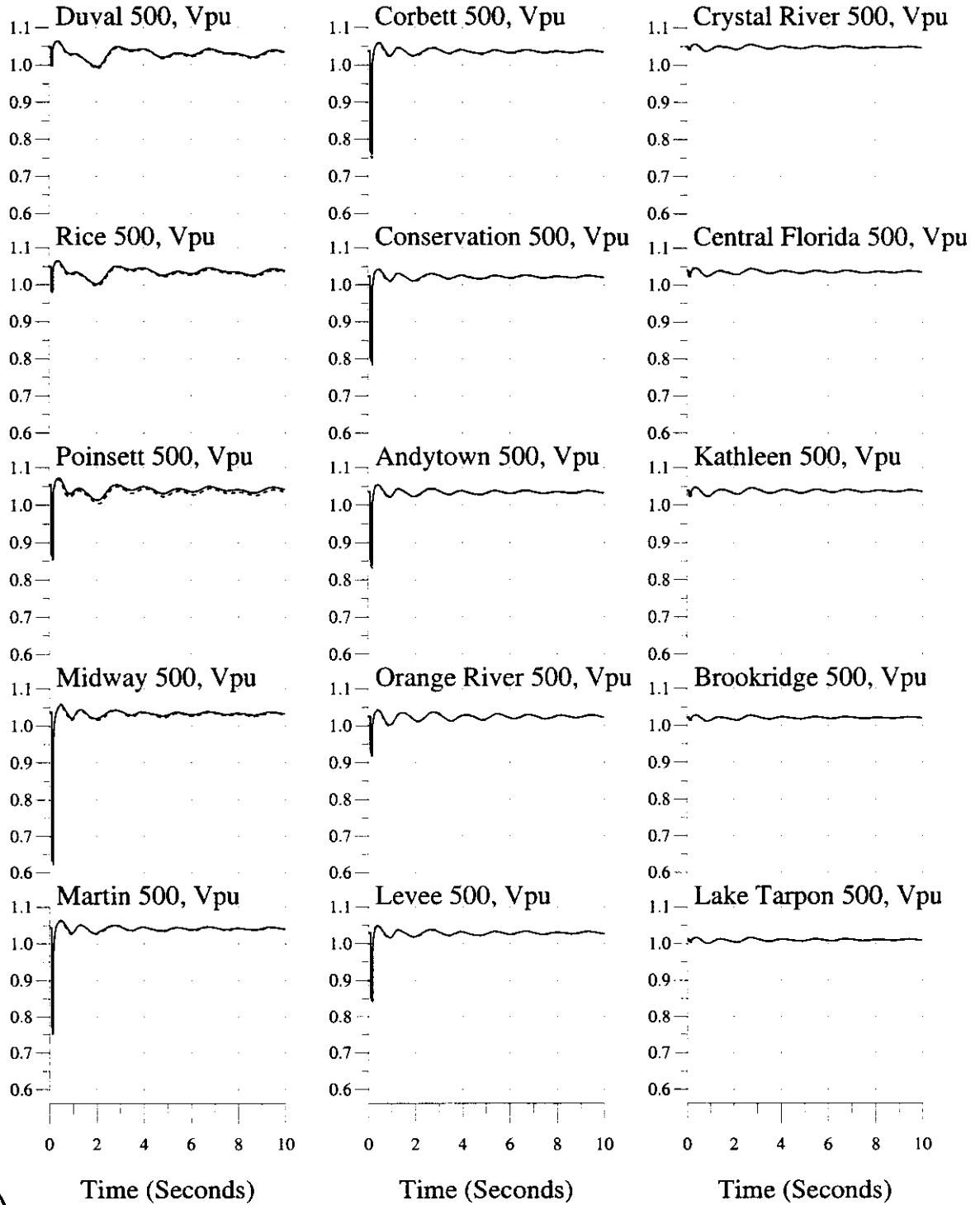
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



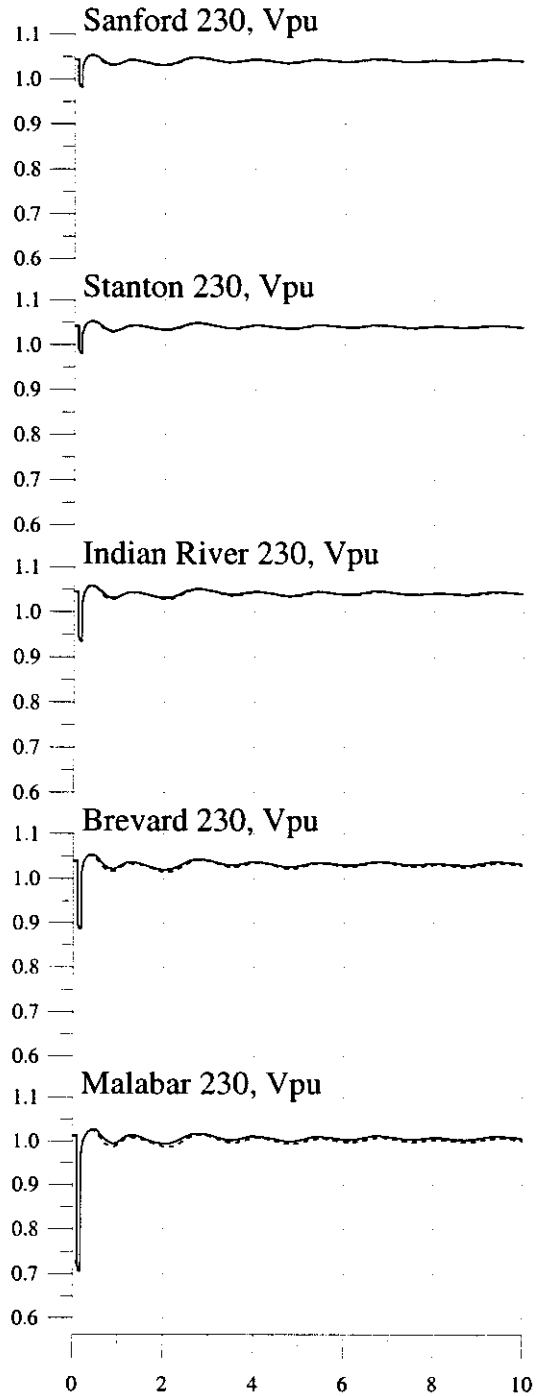
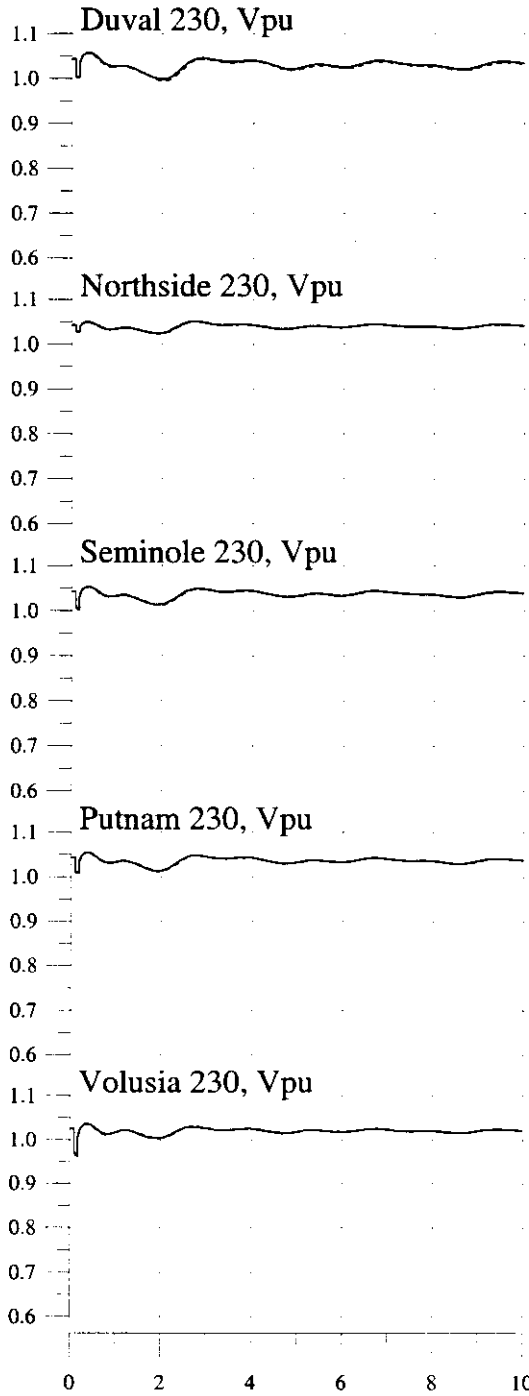
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without

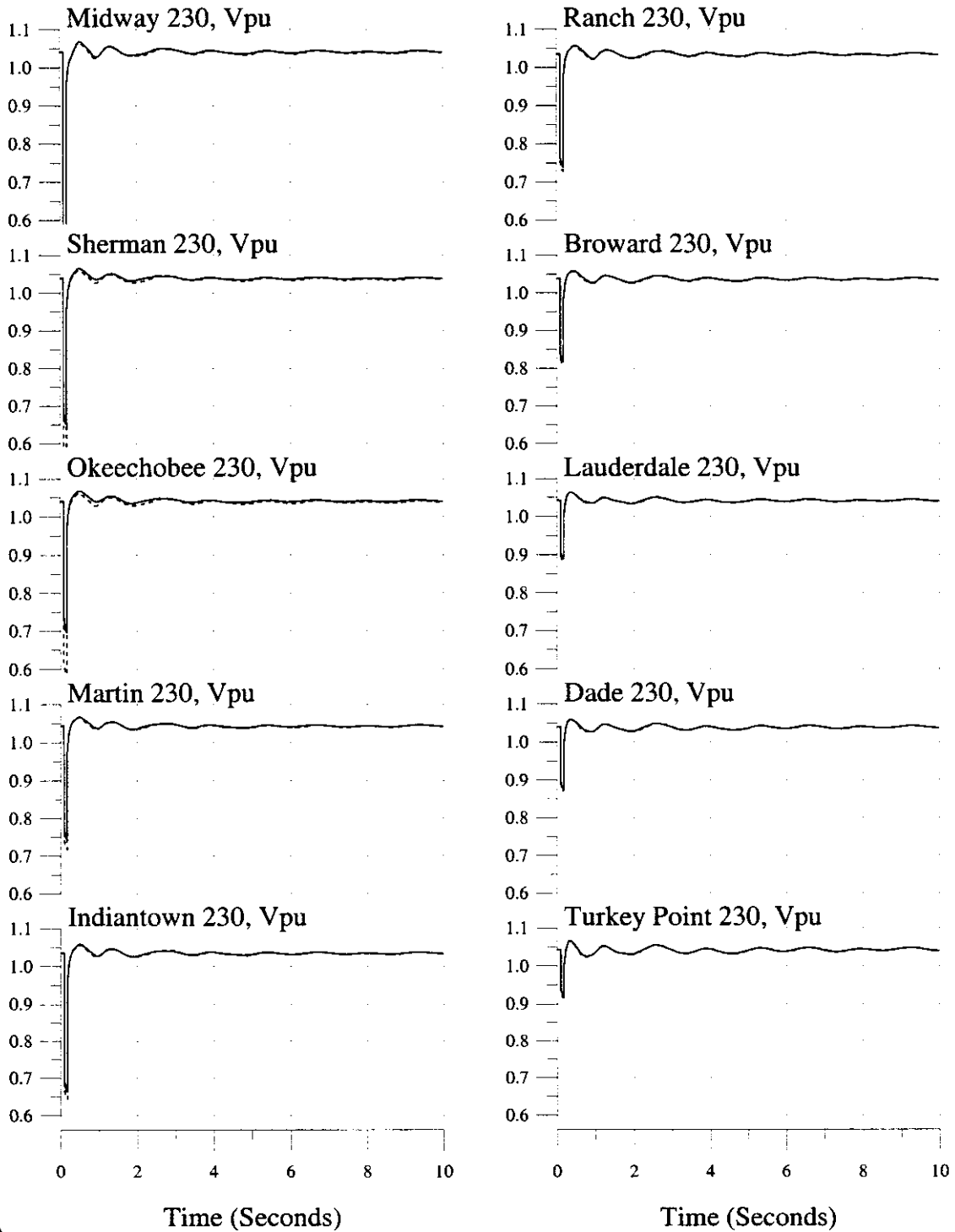


Time (Seconds)

Time (Seconds)

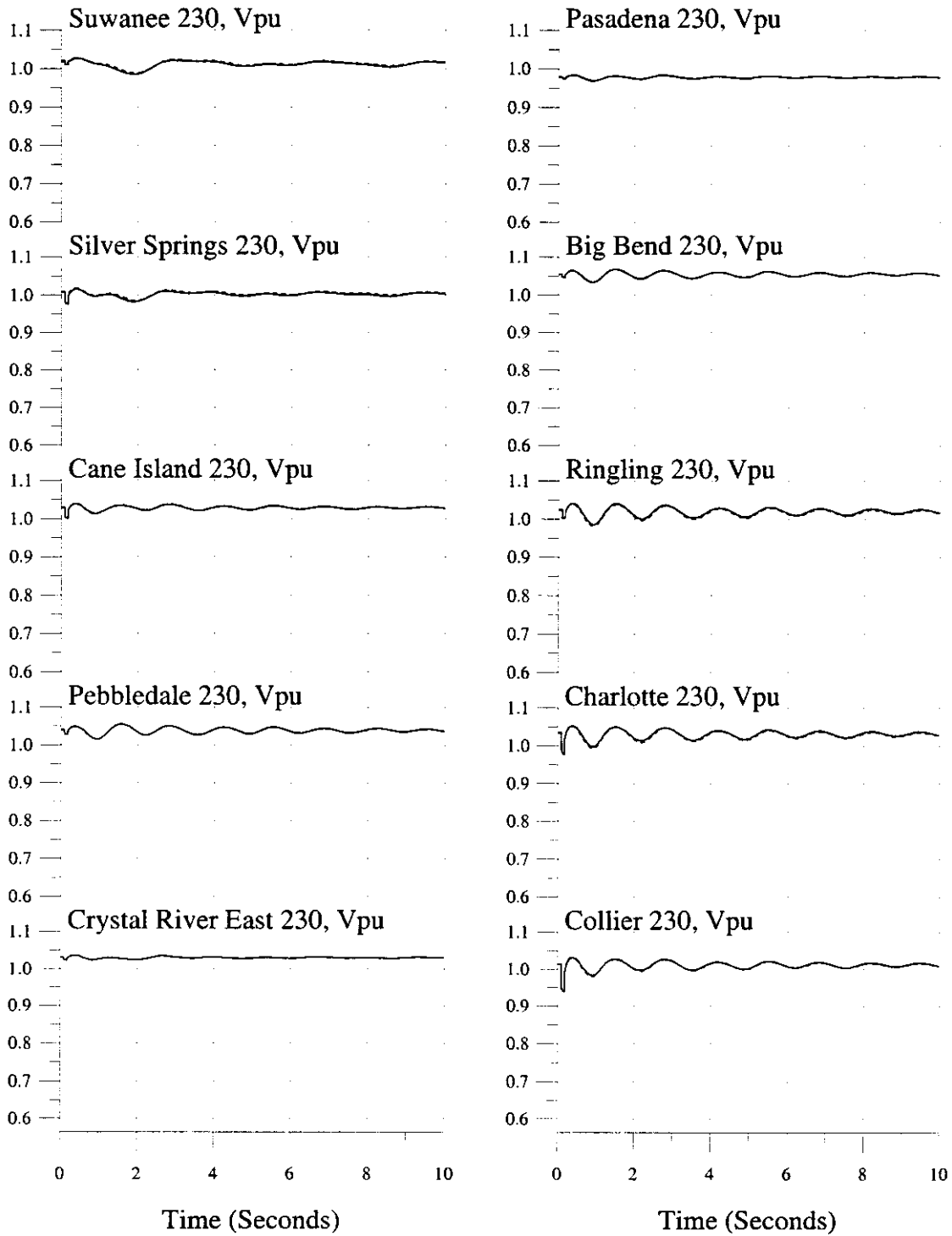
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without

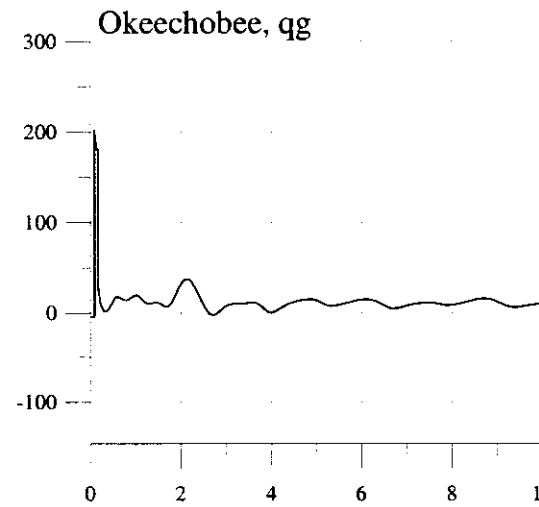
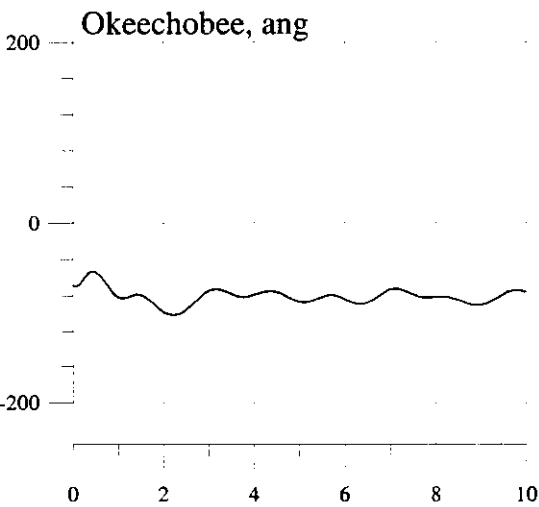
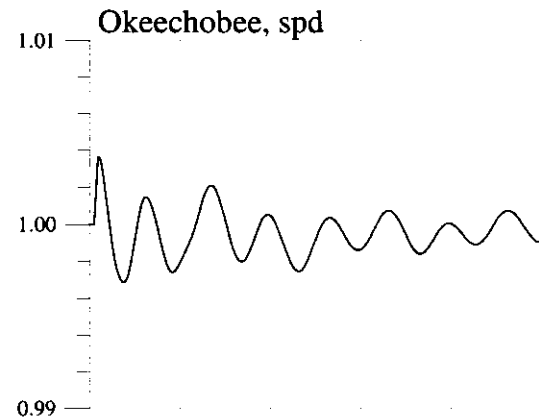
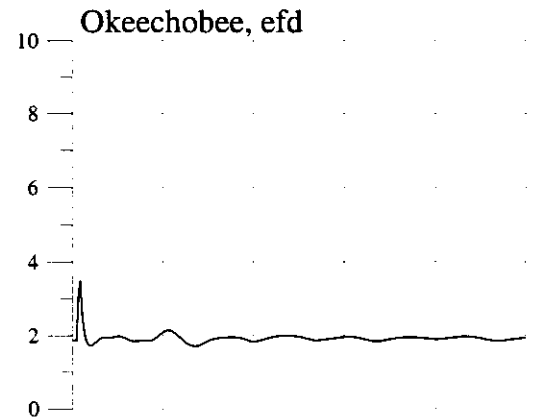
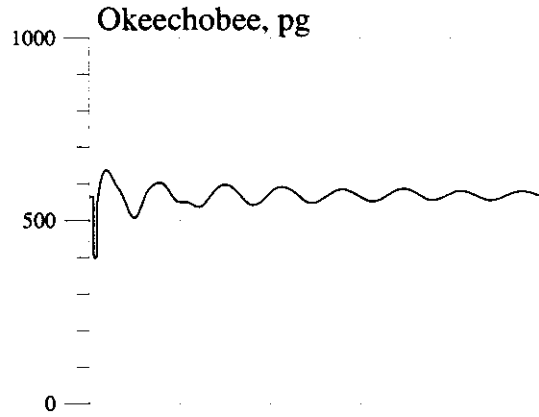
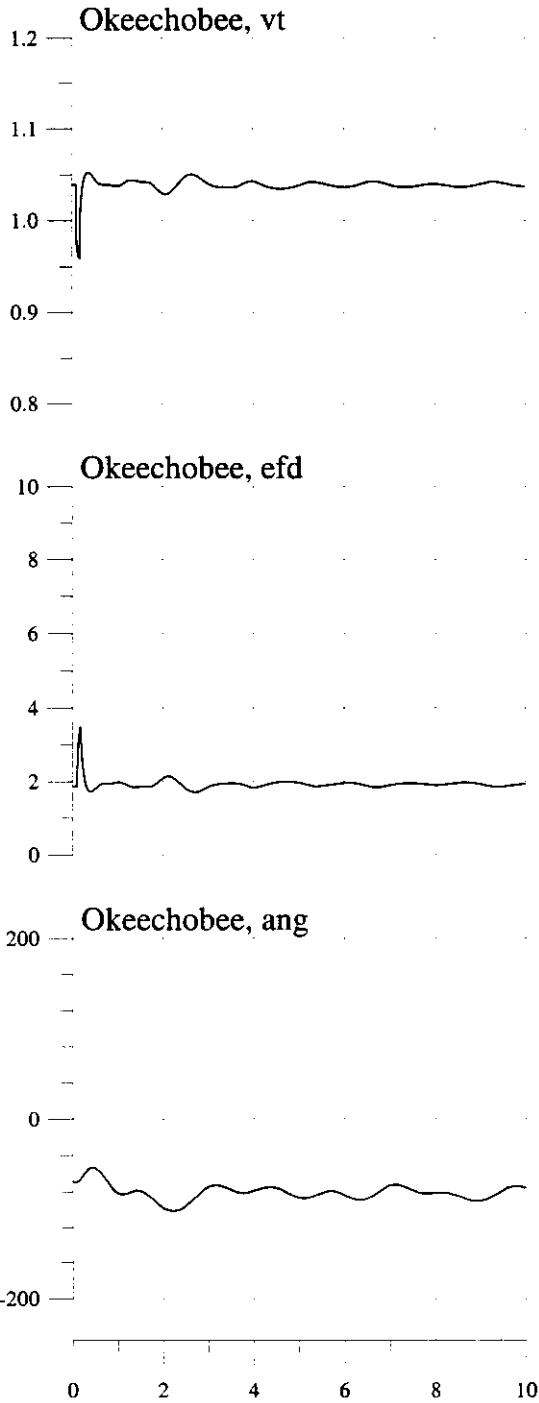


### 3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System  
 Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



Time (Seconds)

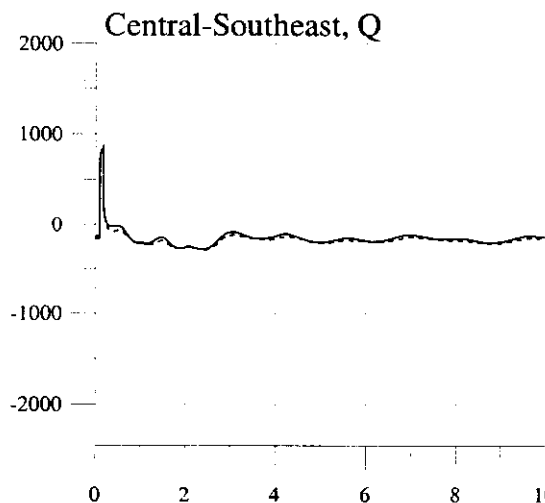
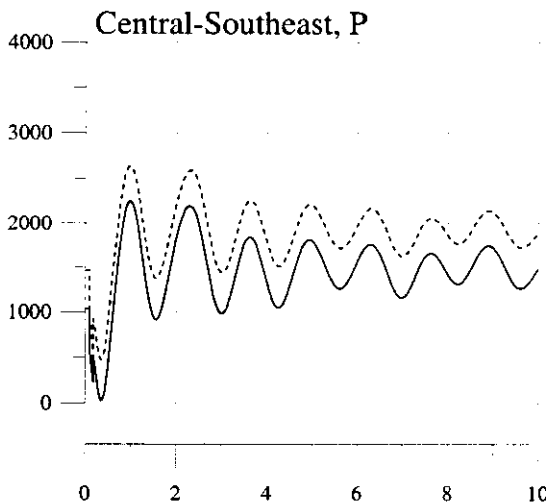
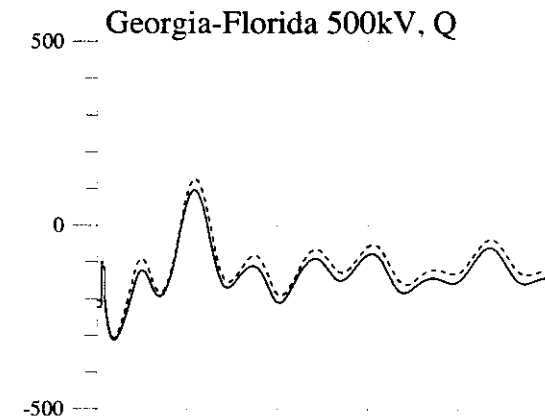
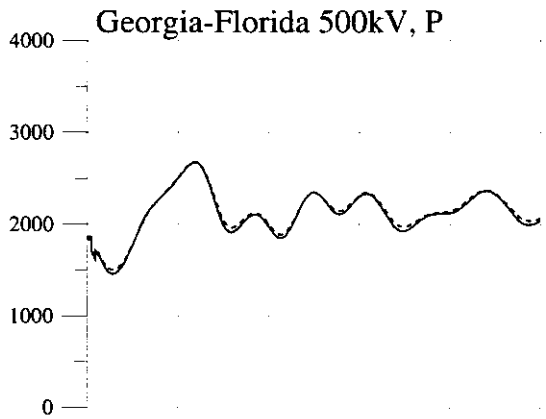
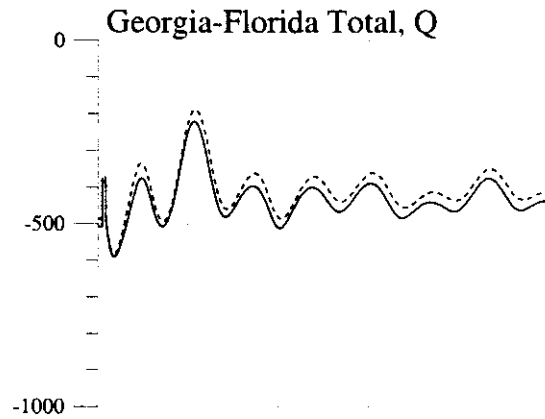
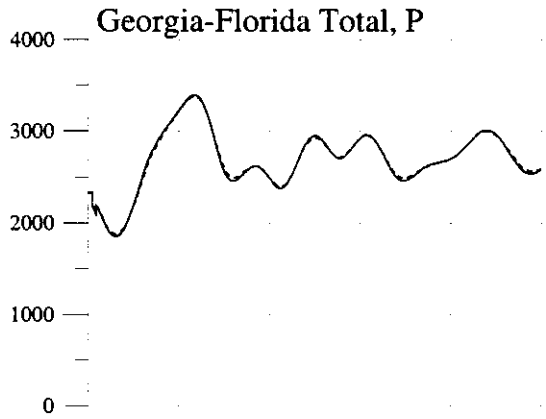
Time (Seconds)





3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



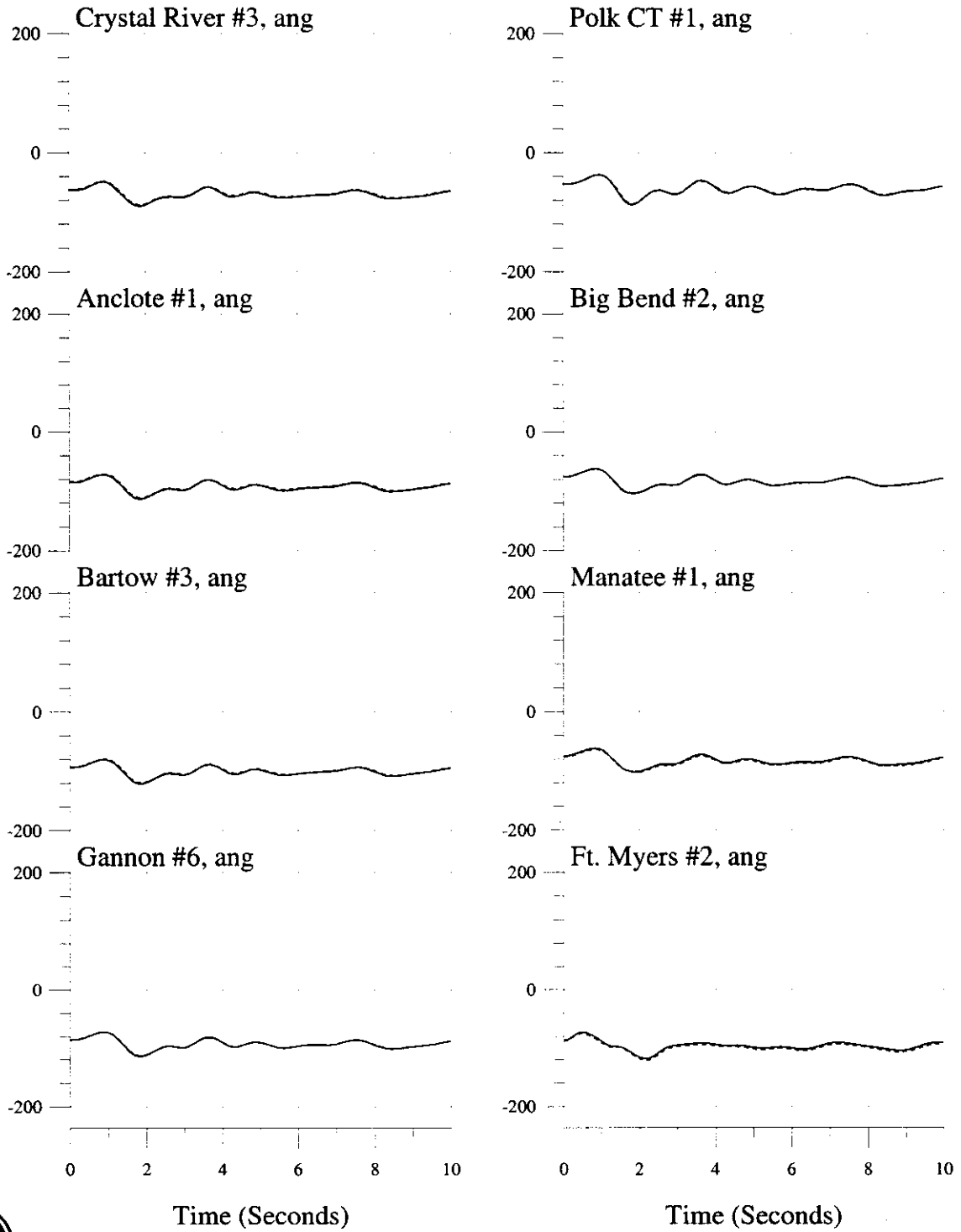
Time (Seconds)

Time (Seconds)



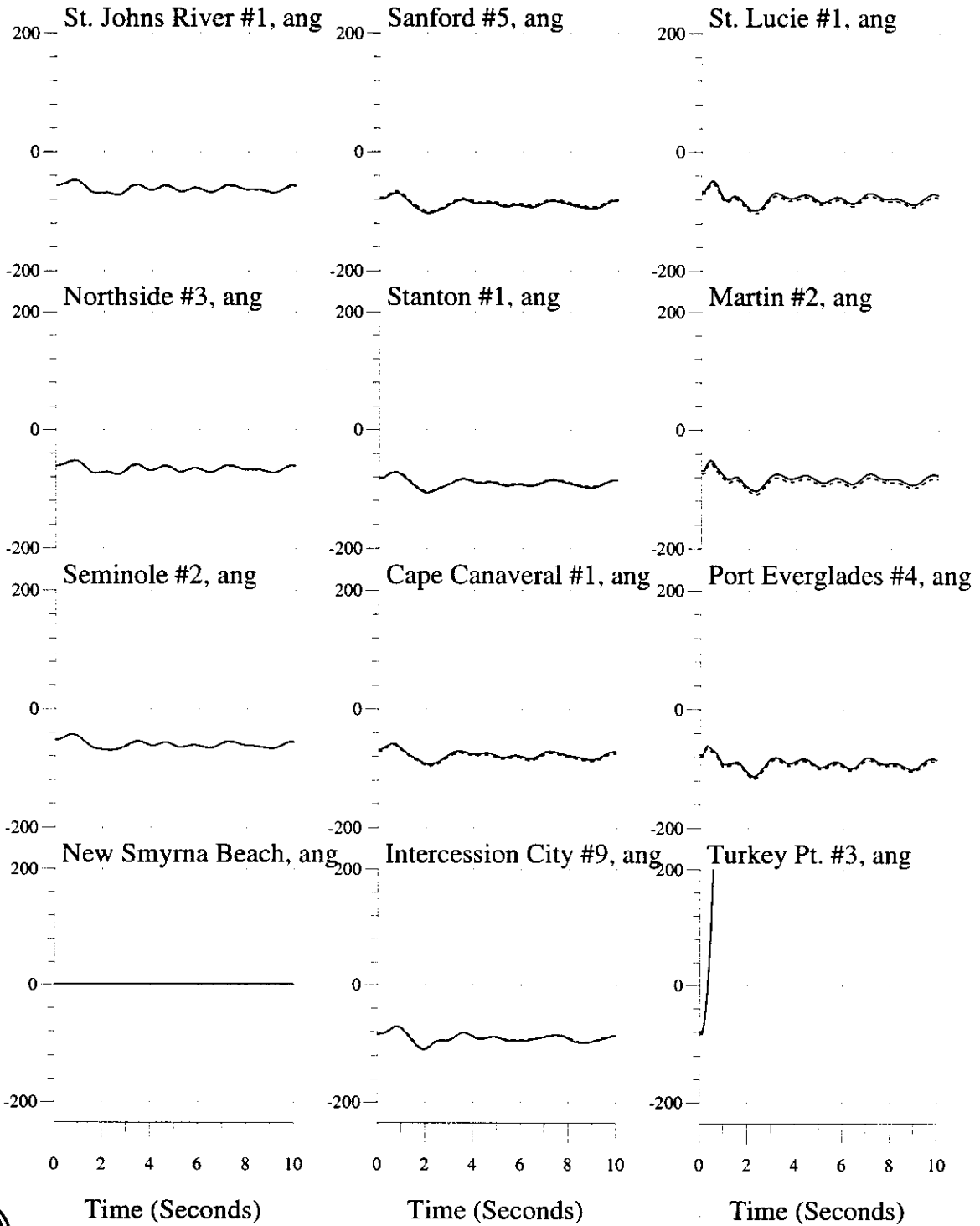
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



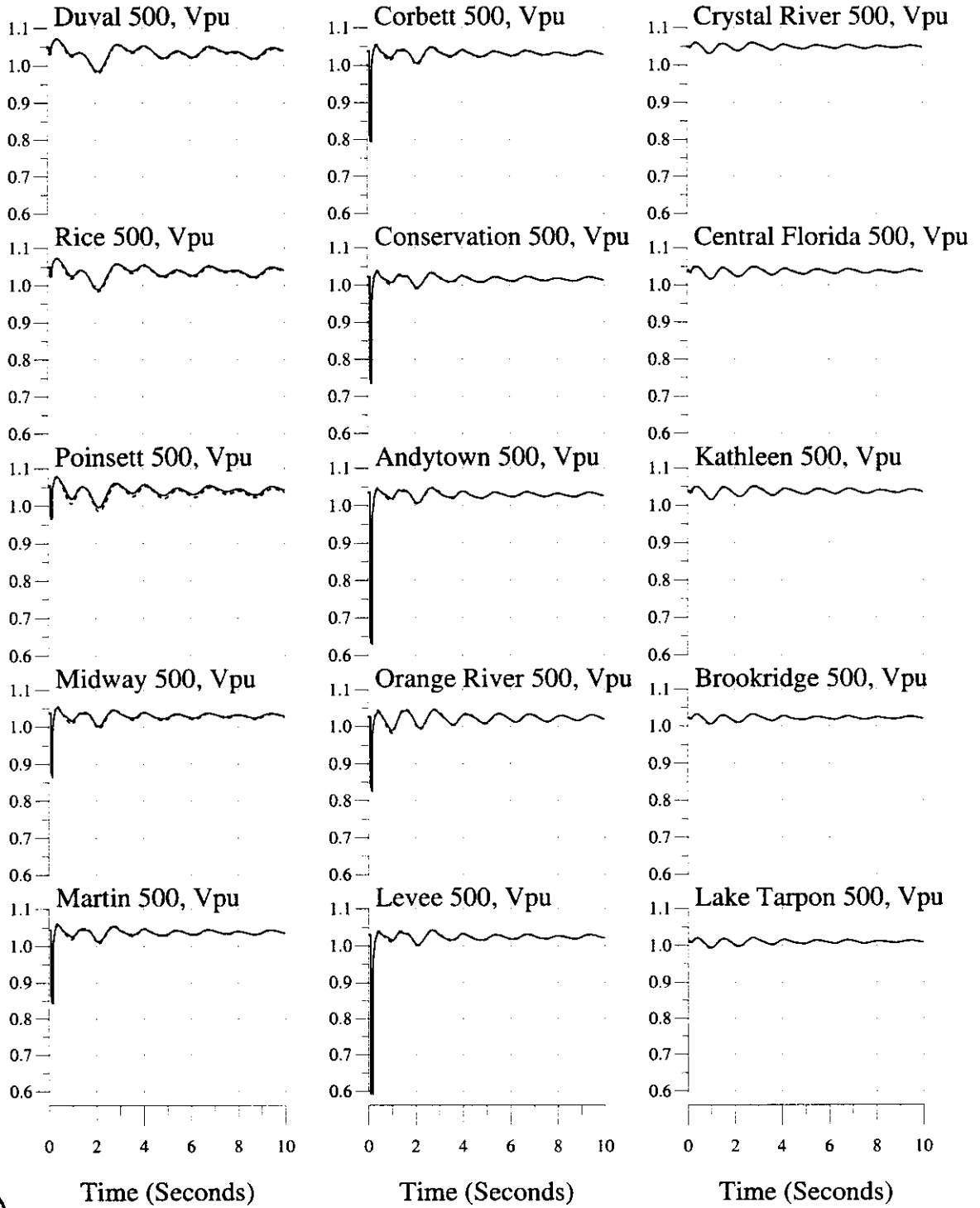
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



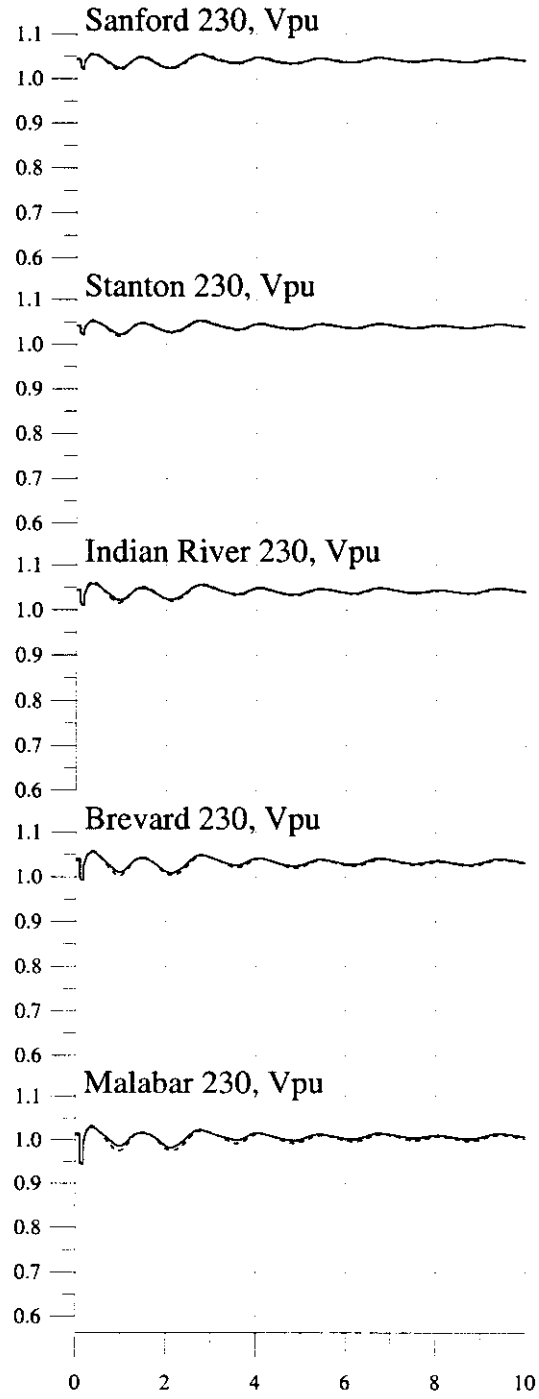
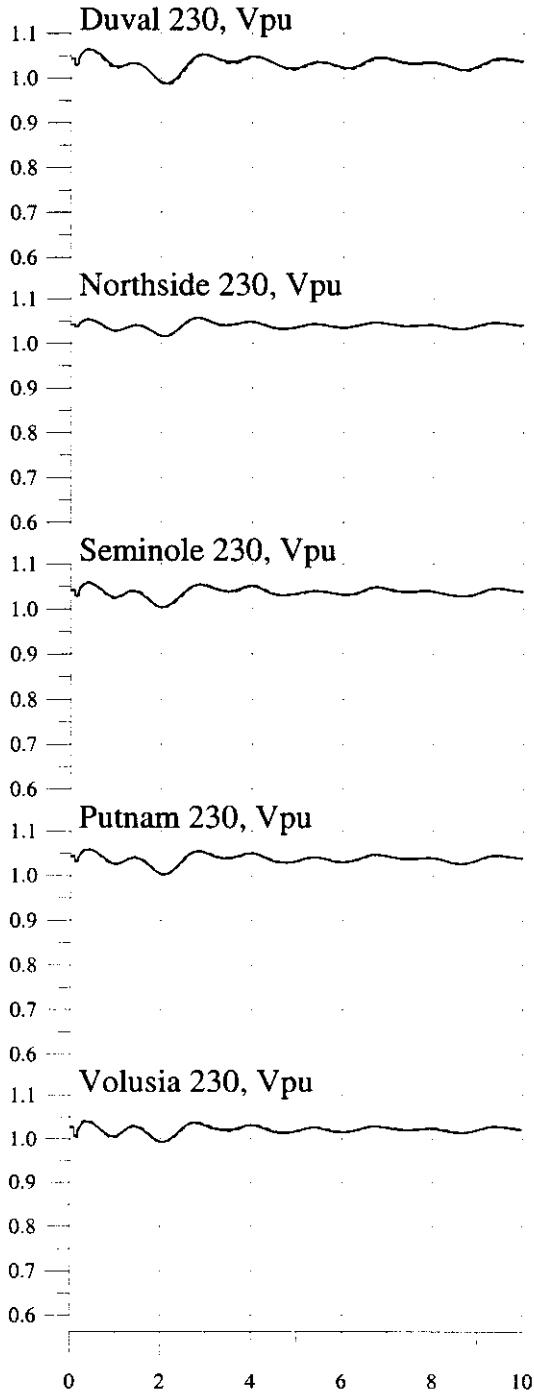
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



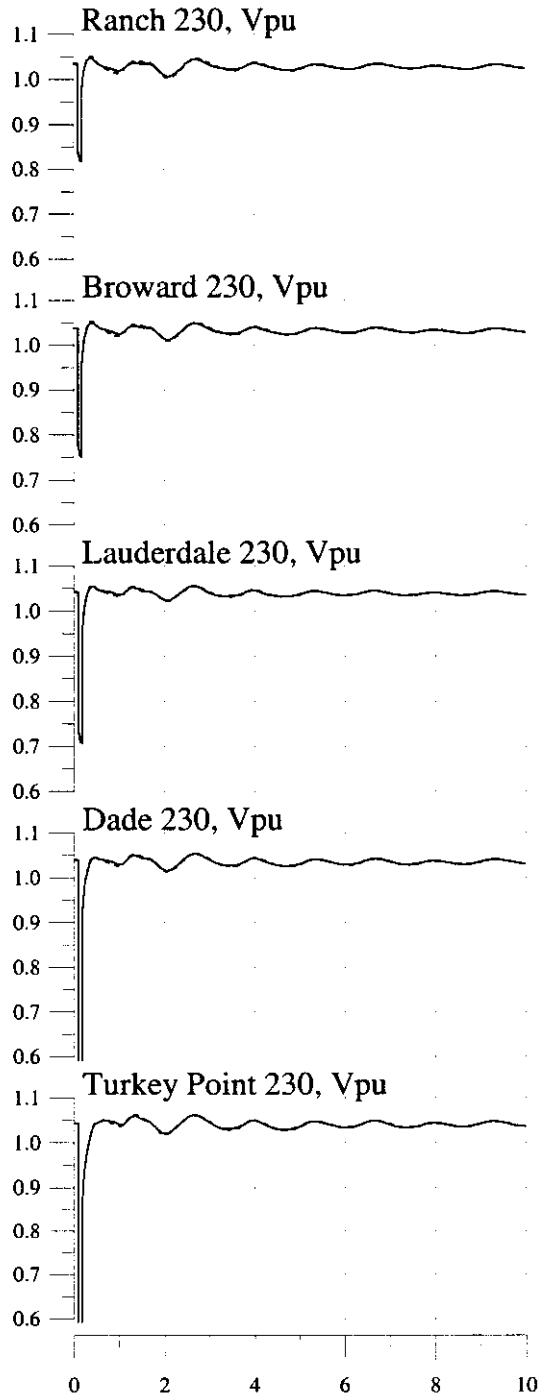
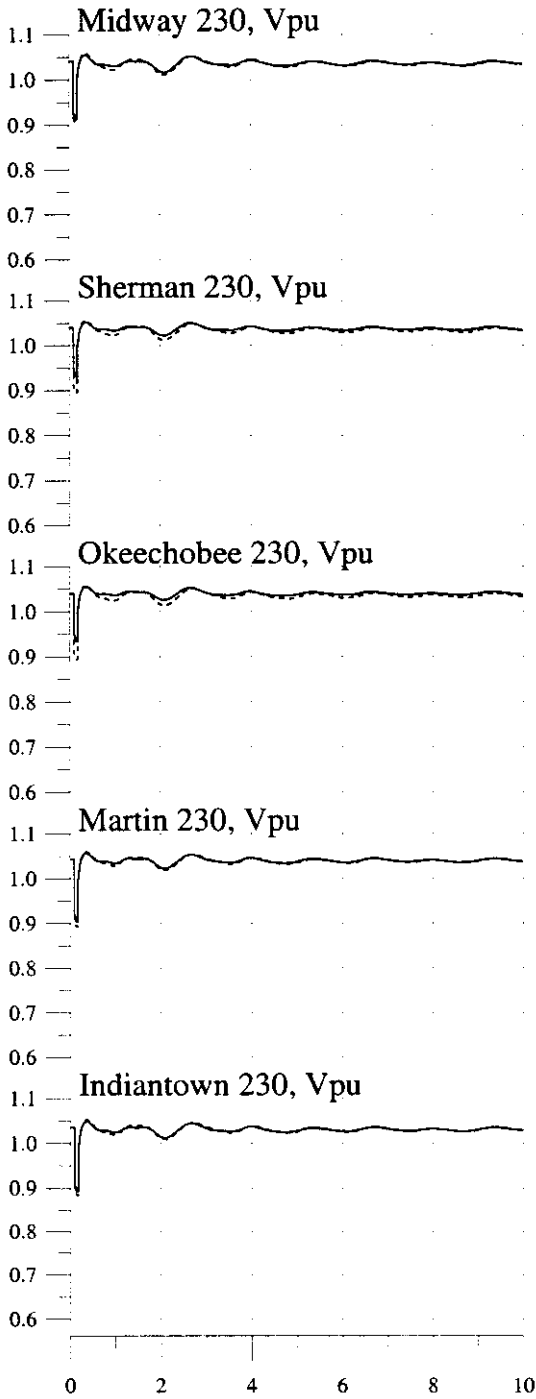
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



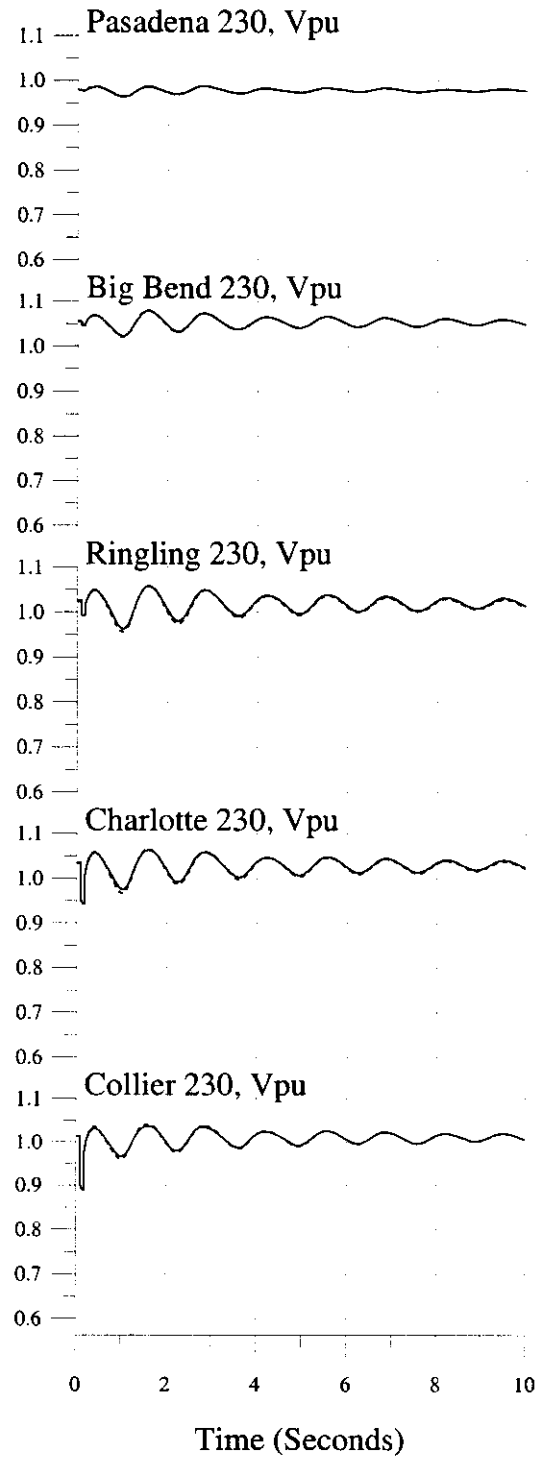
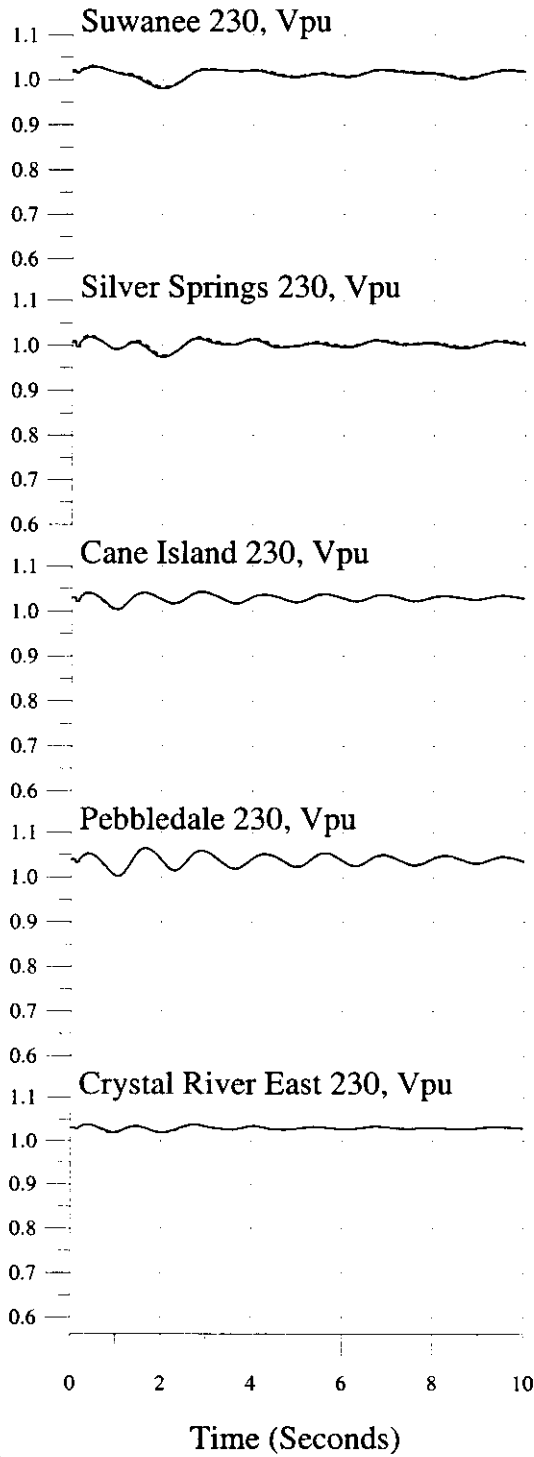
3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without

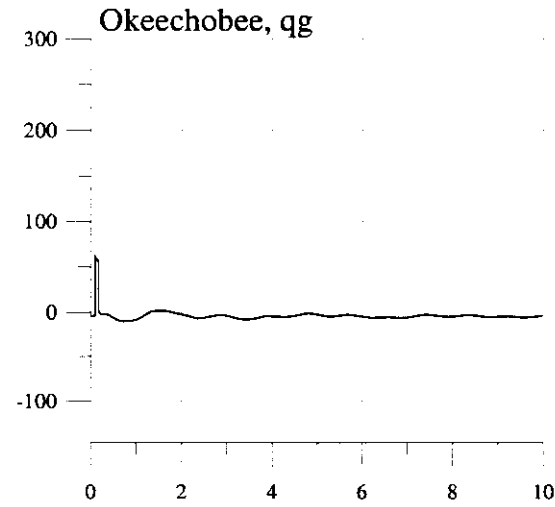
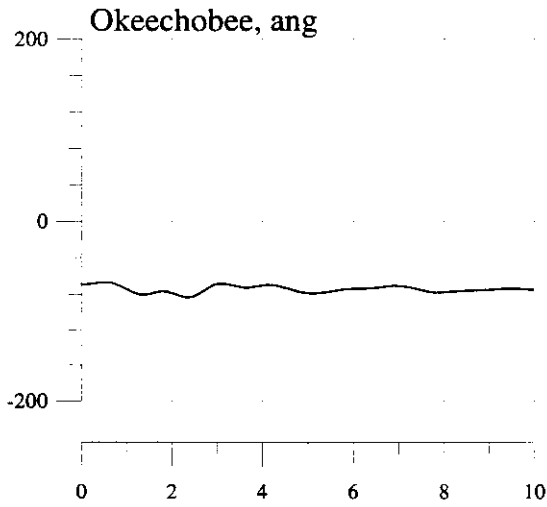
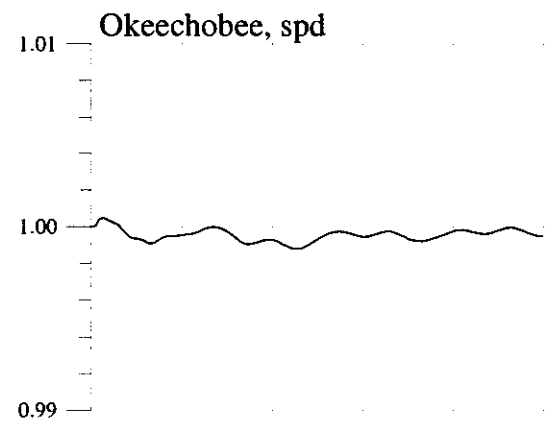
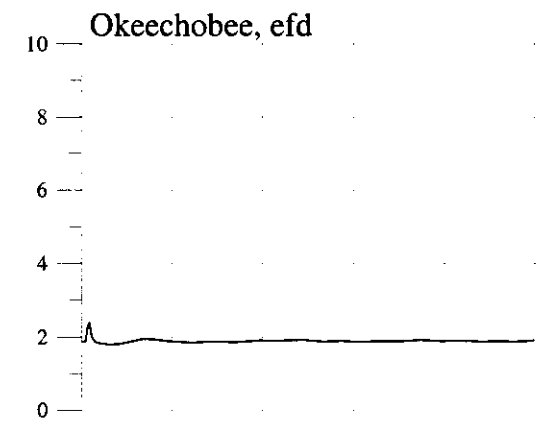
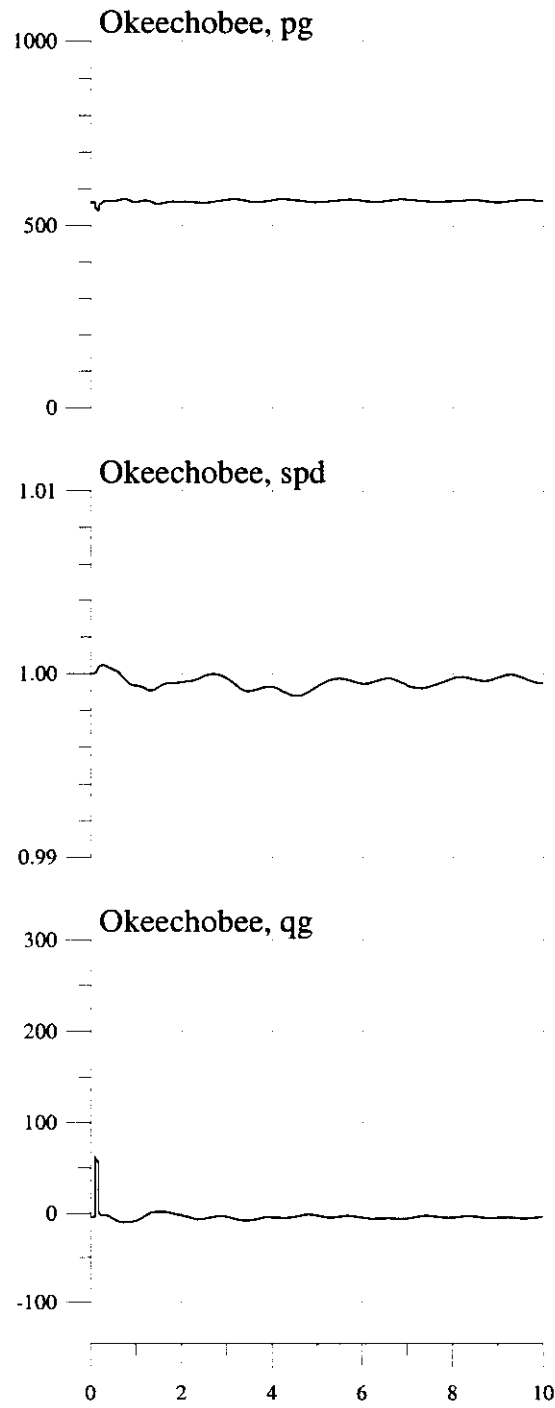
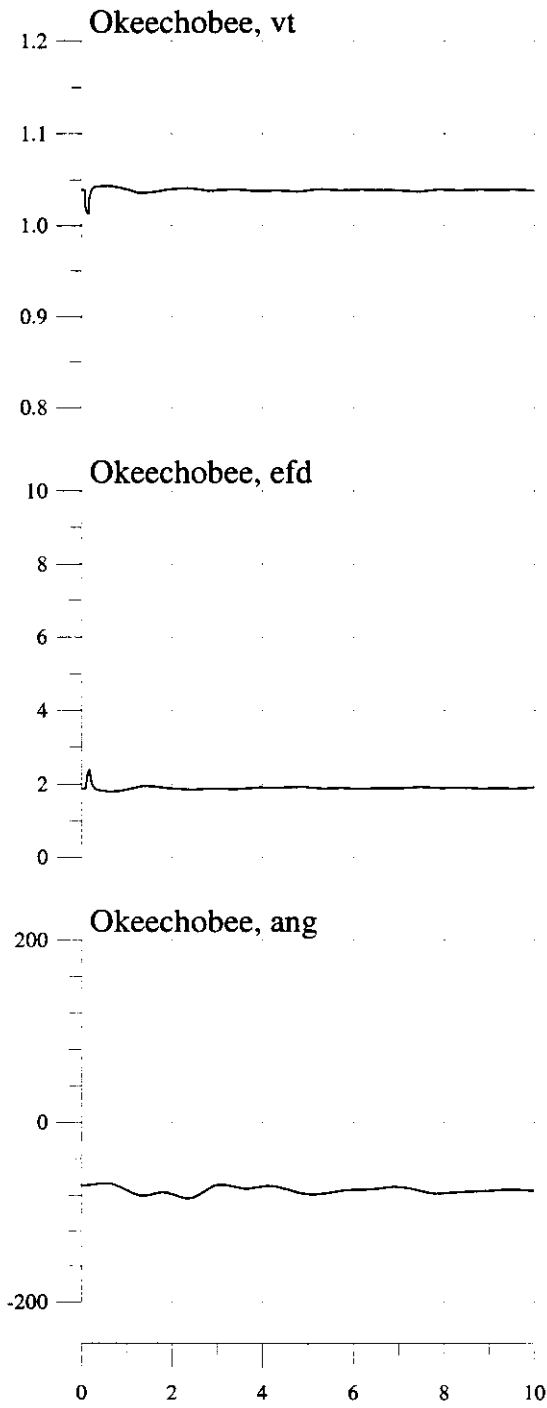


3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



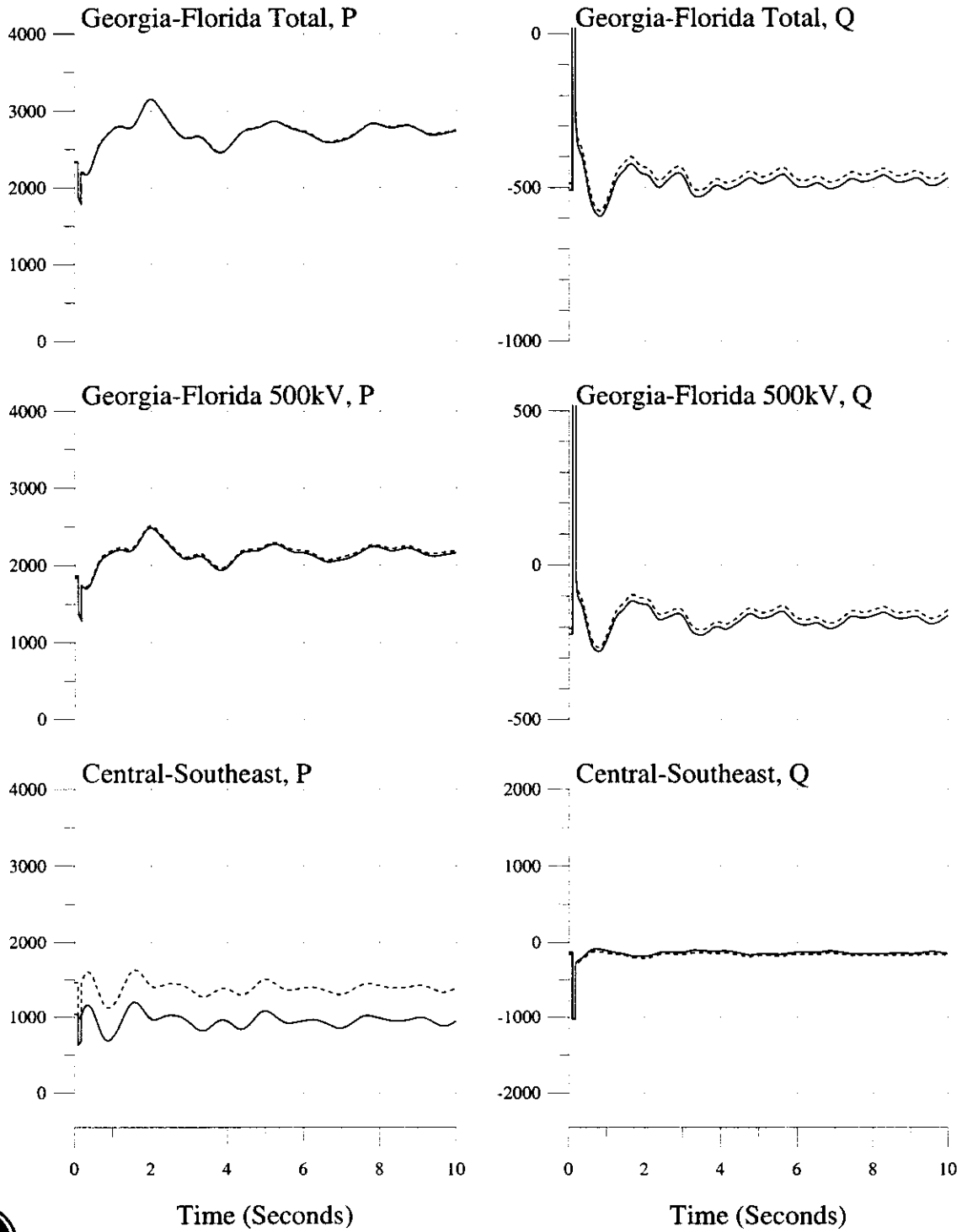
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System  
 Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without





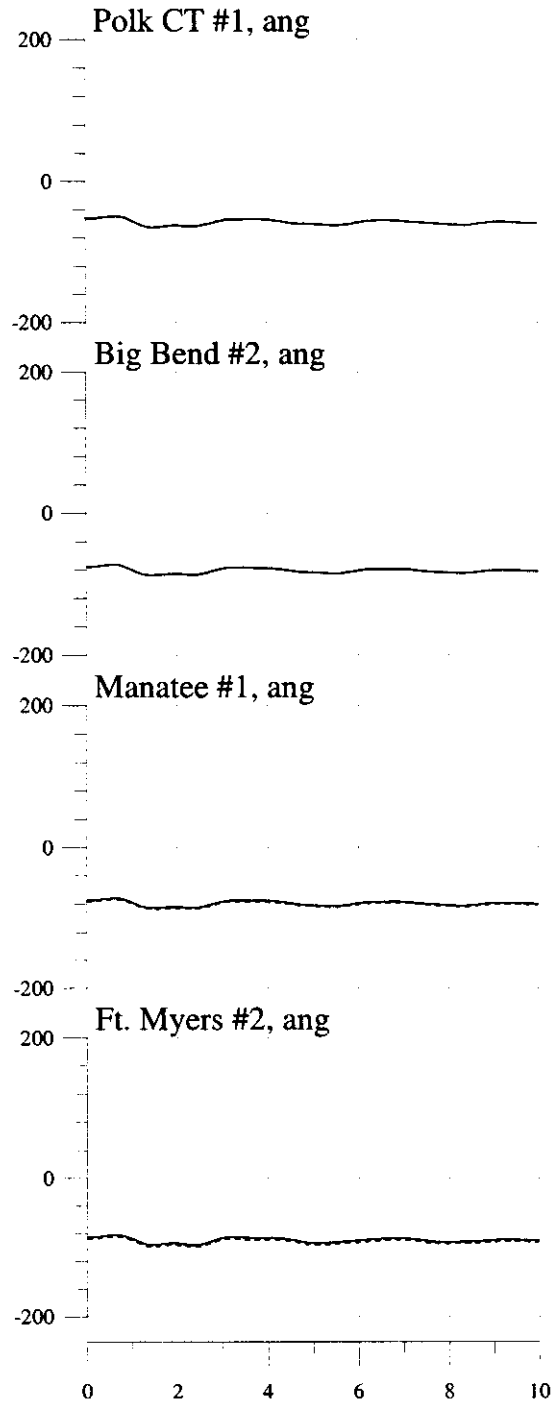
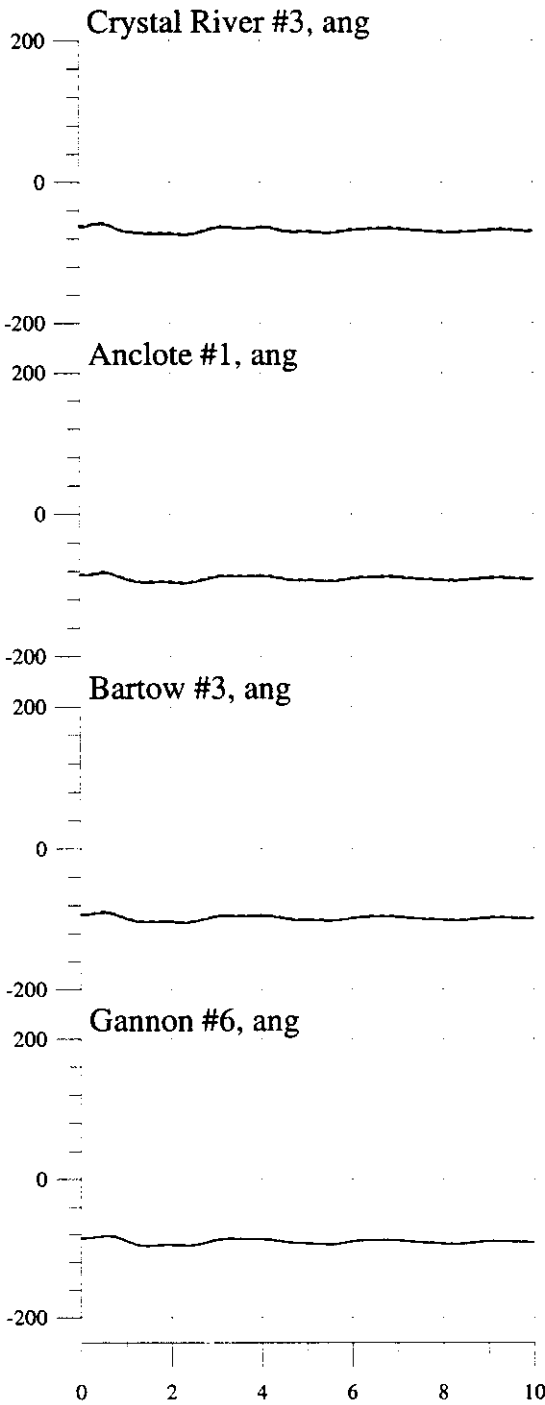
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



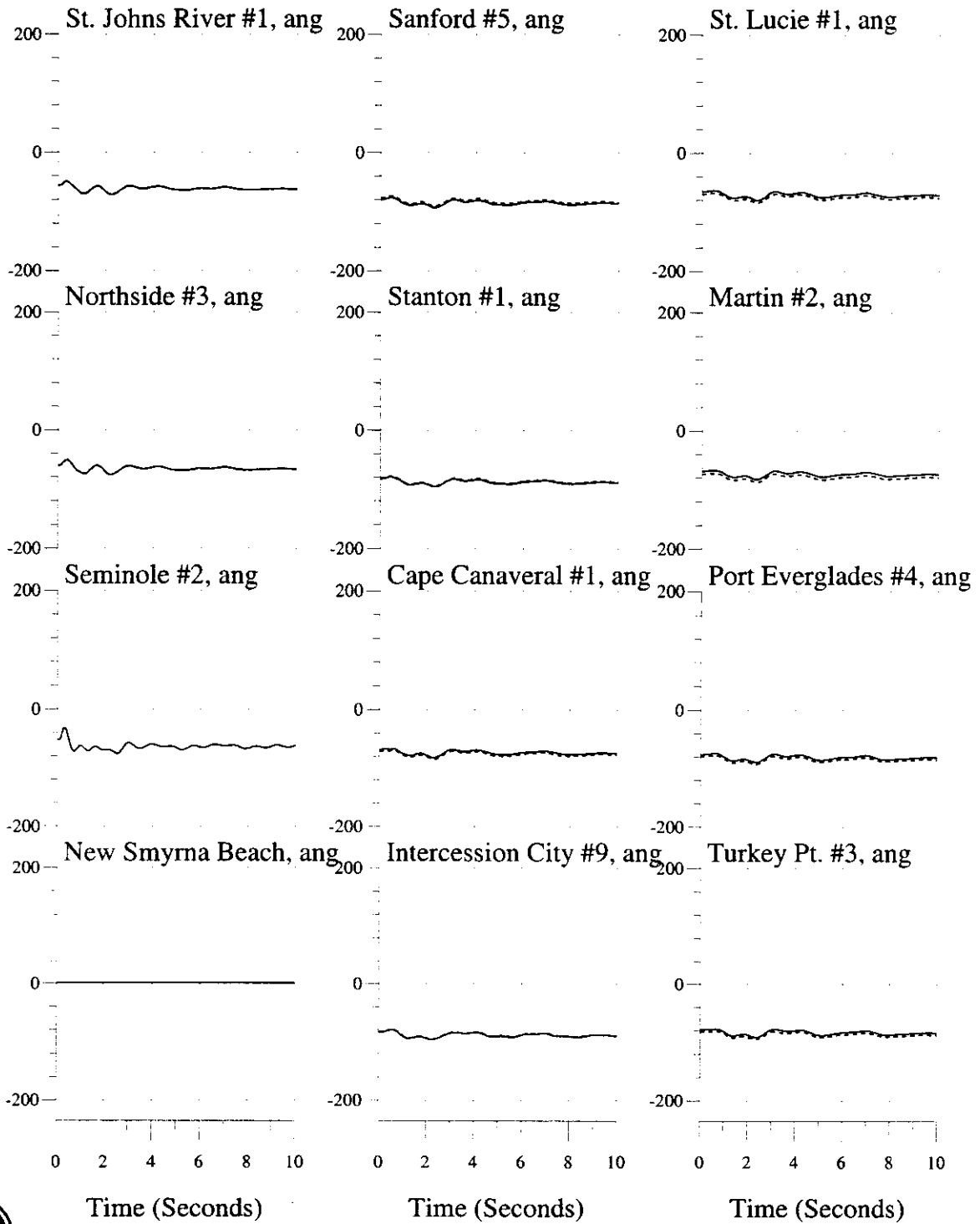
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Machine Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



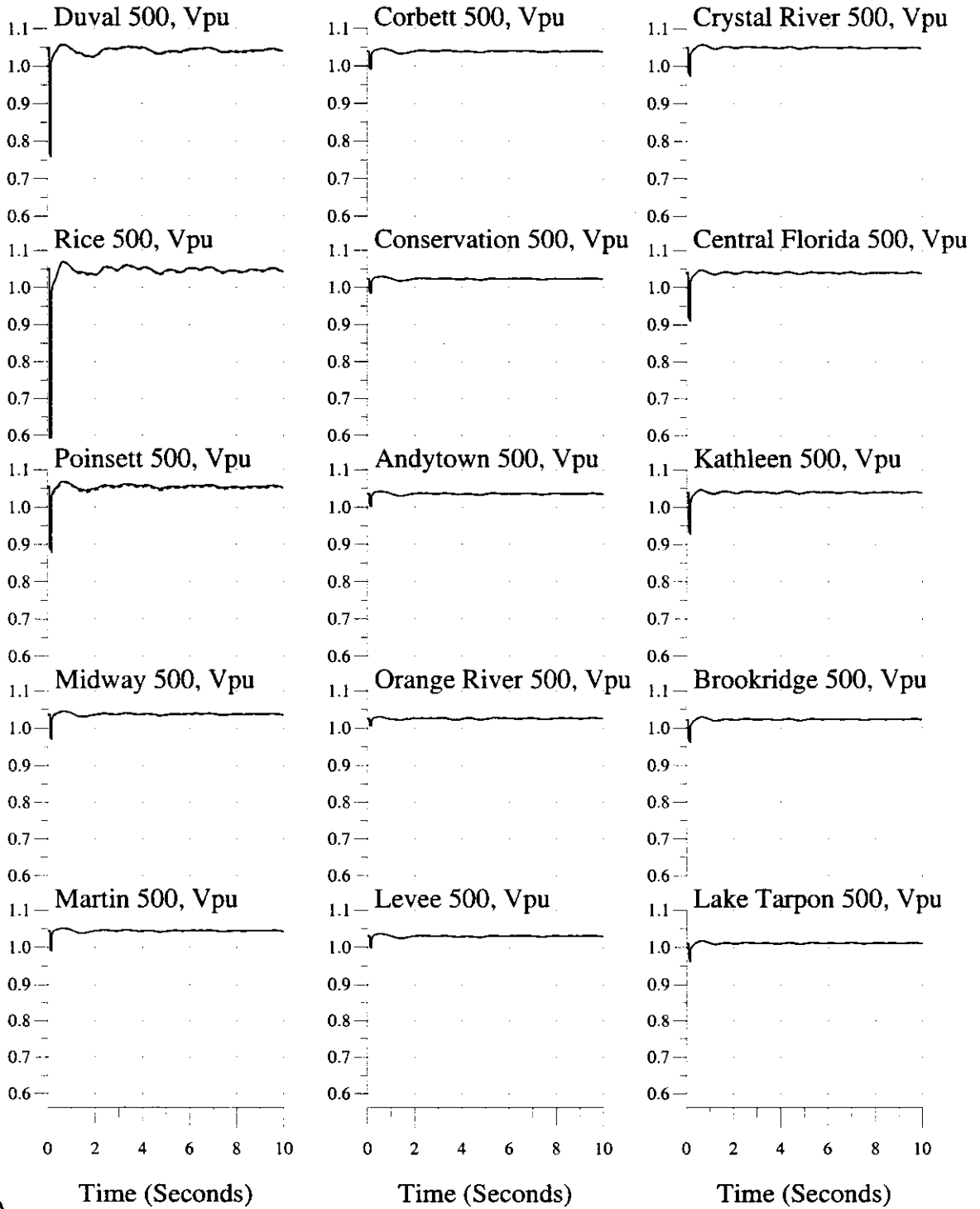
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



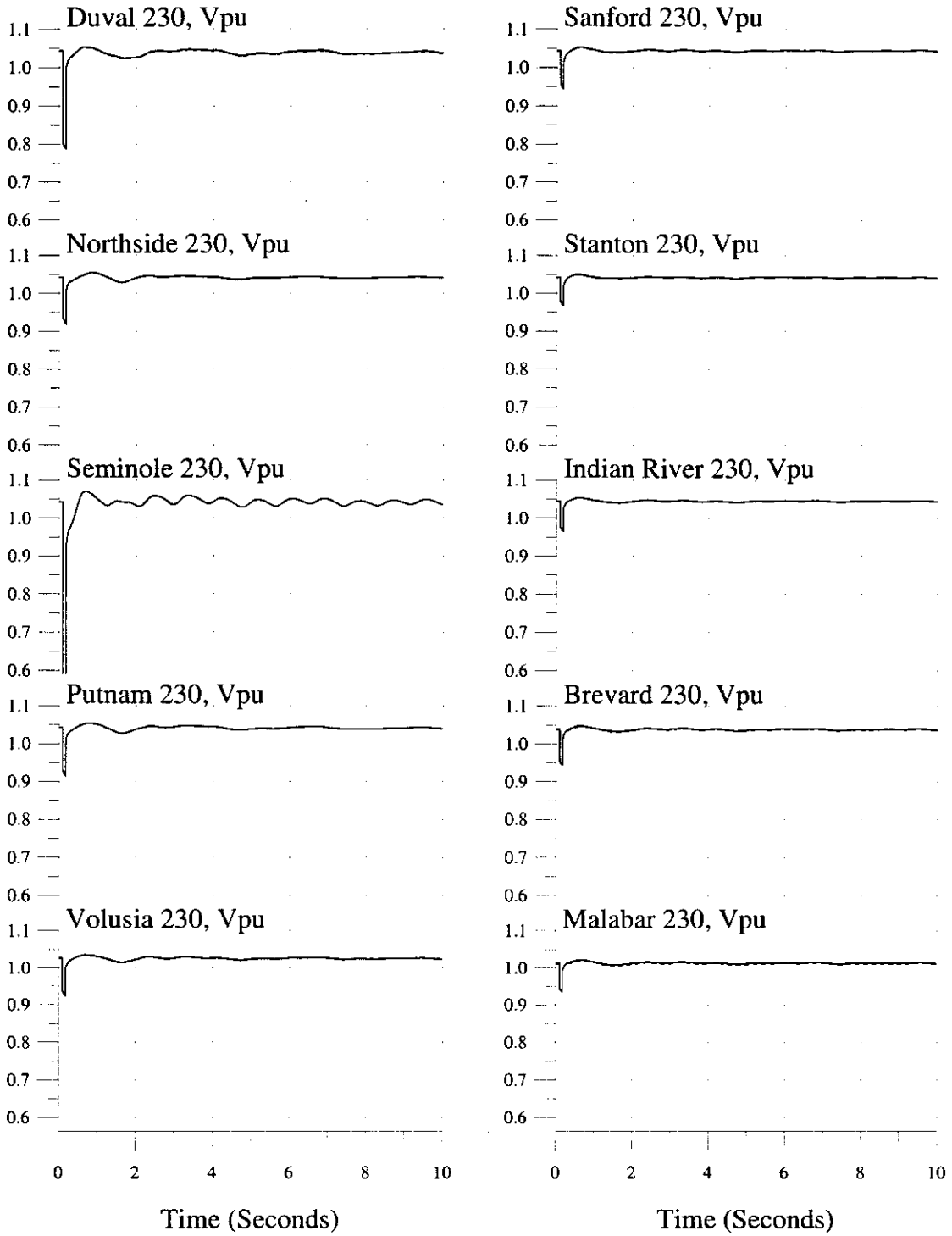
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



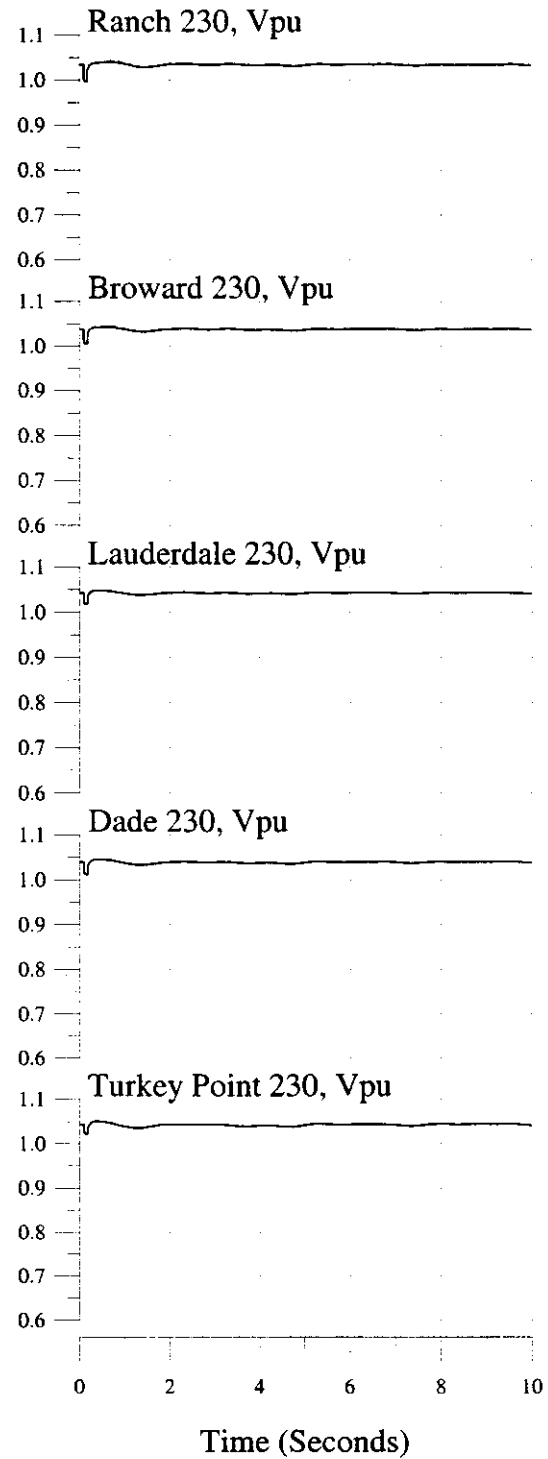
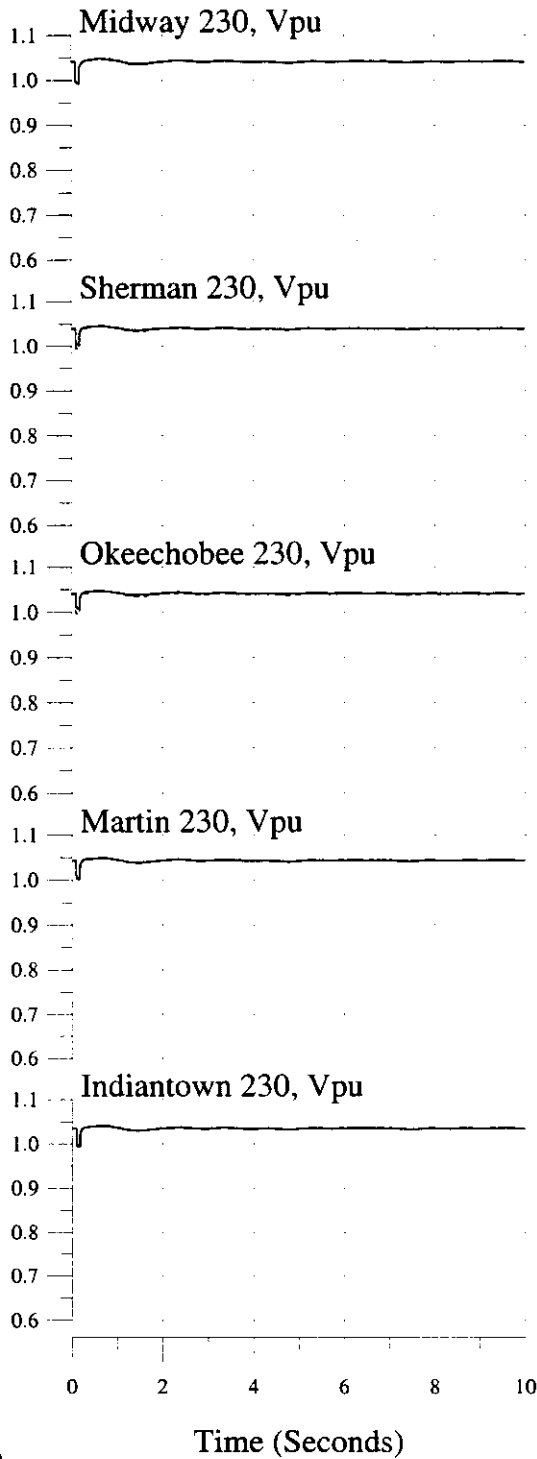
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



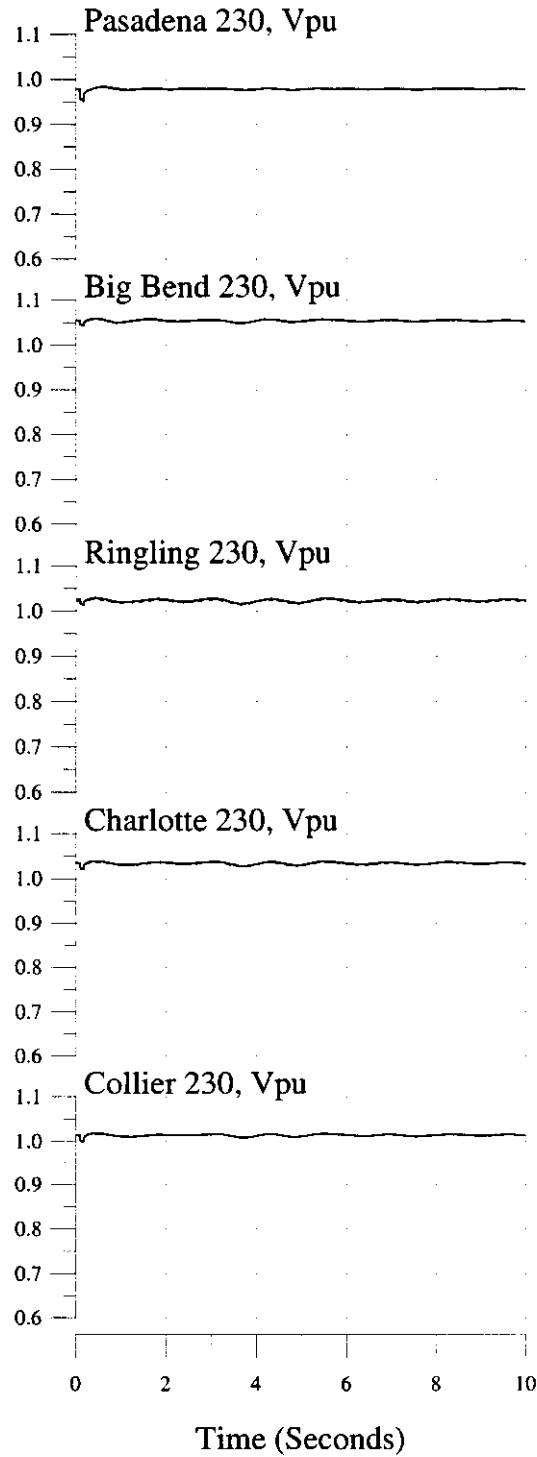
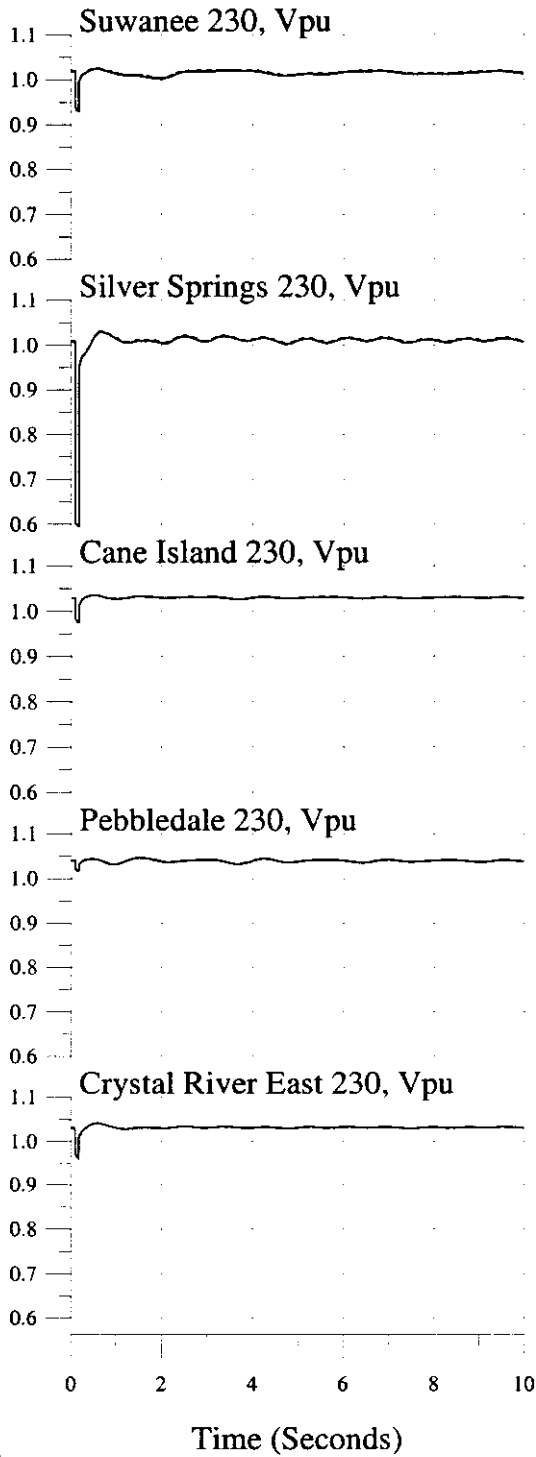
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



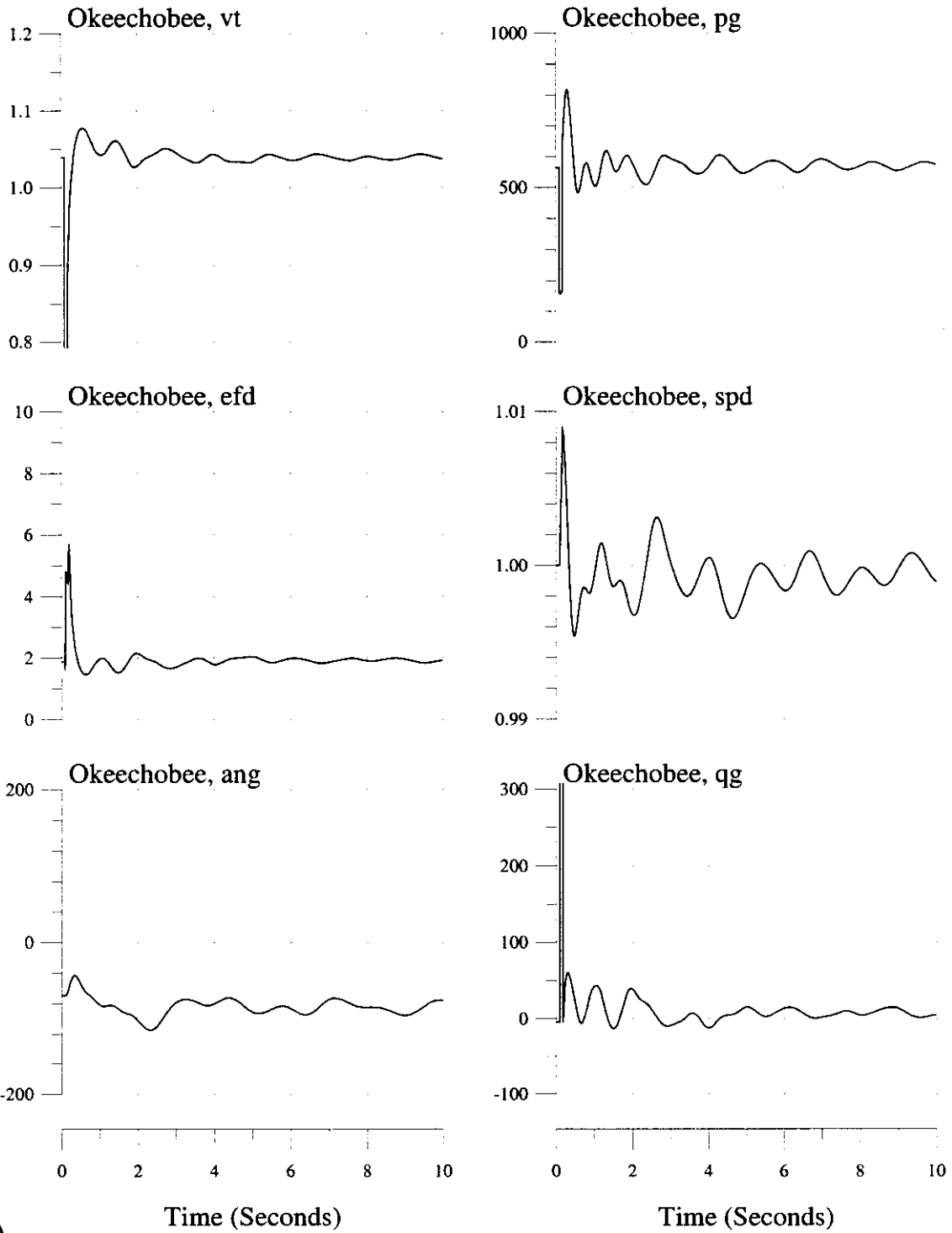
3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

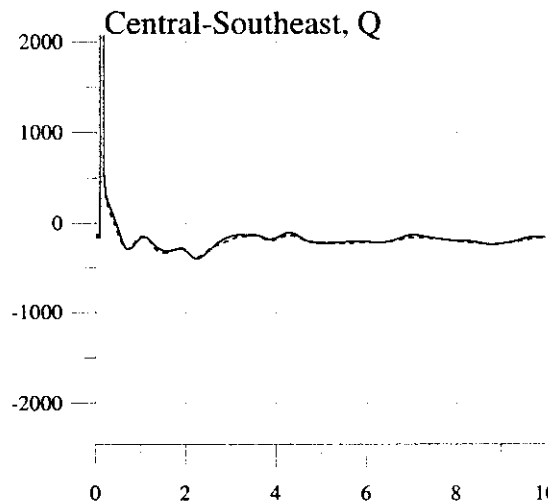
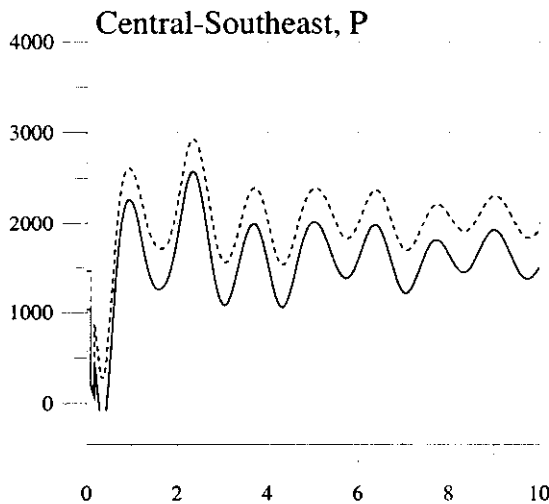
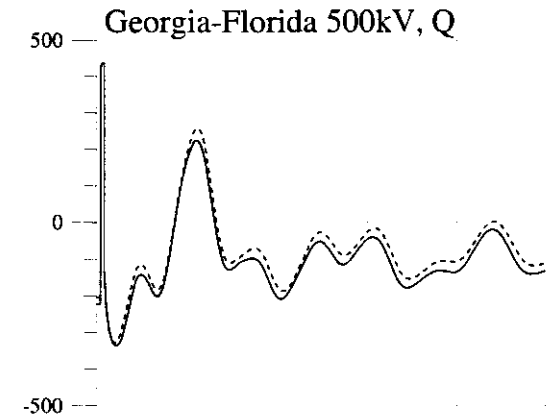
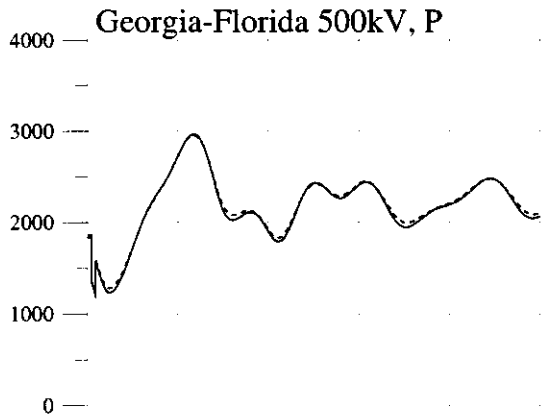
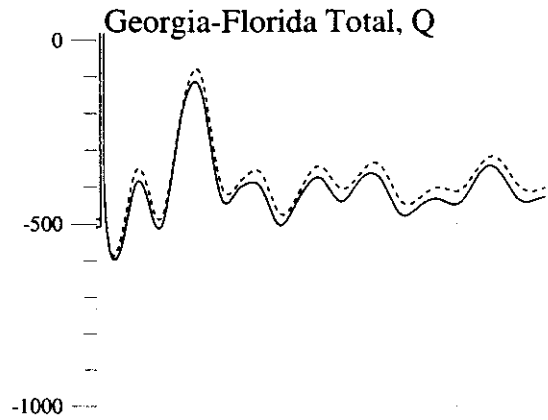
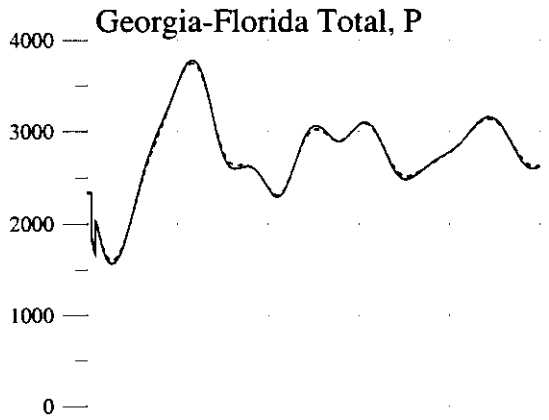
Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without





3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



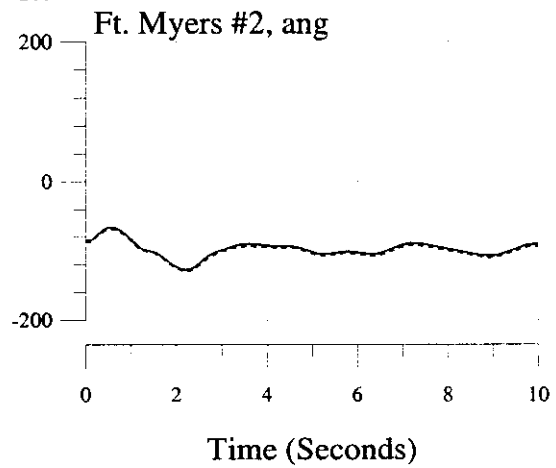
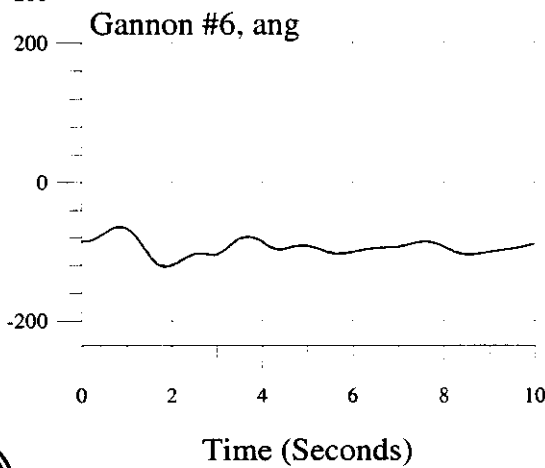
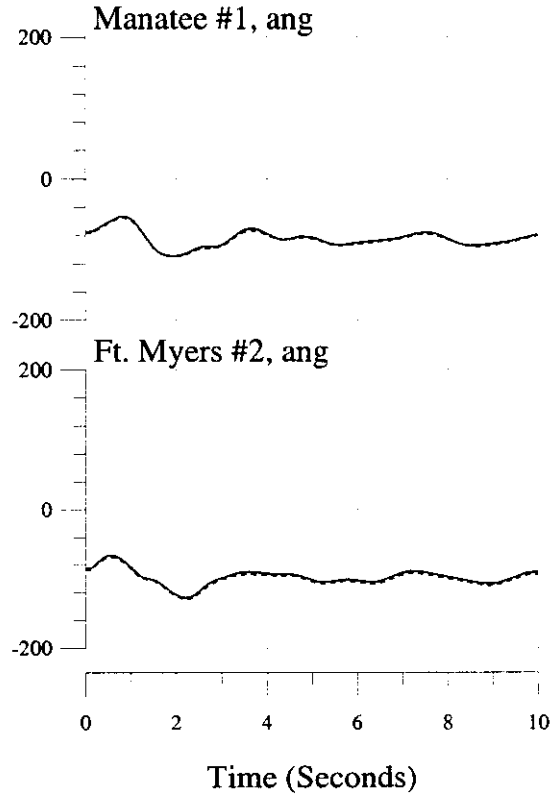
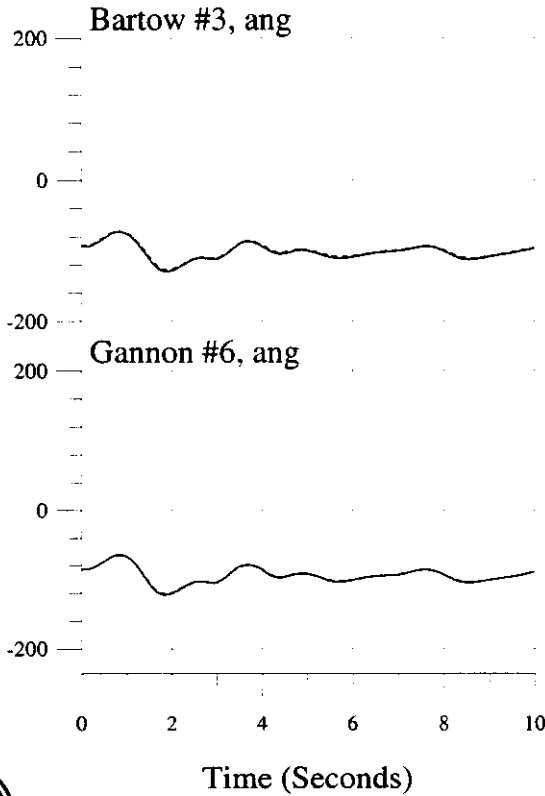
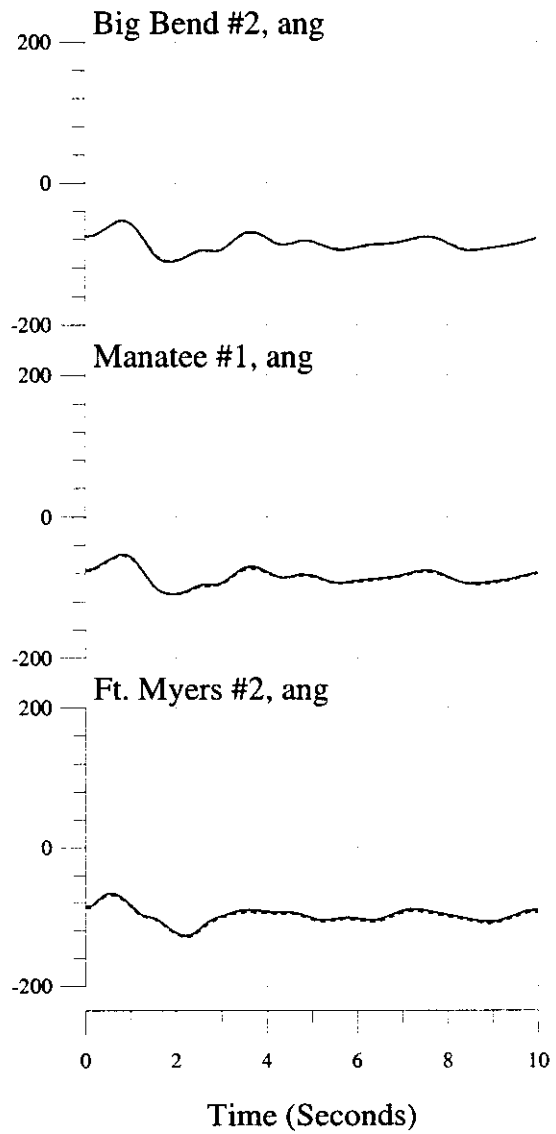
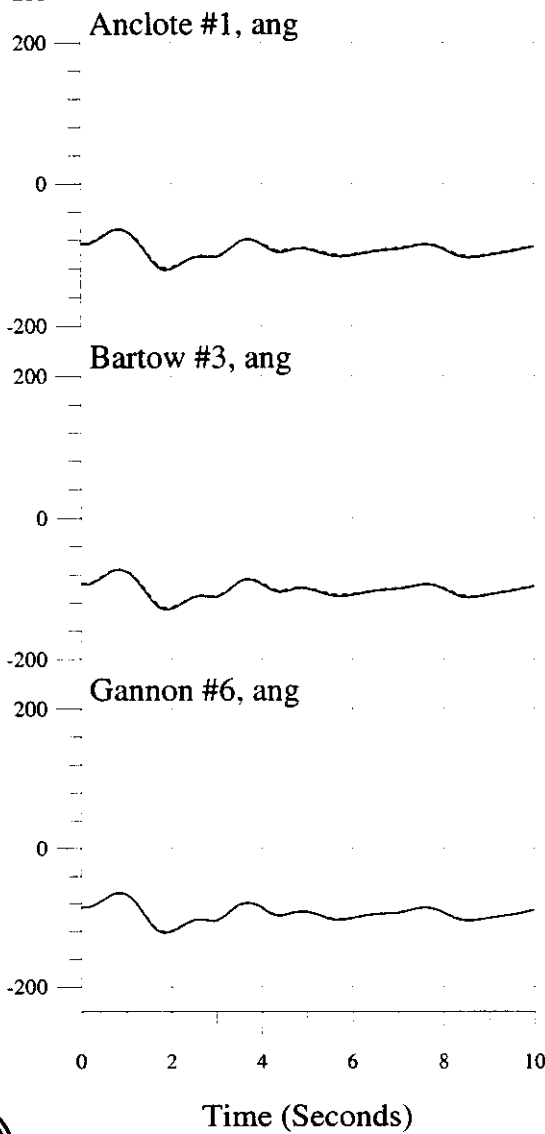
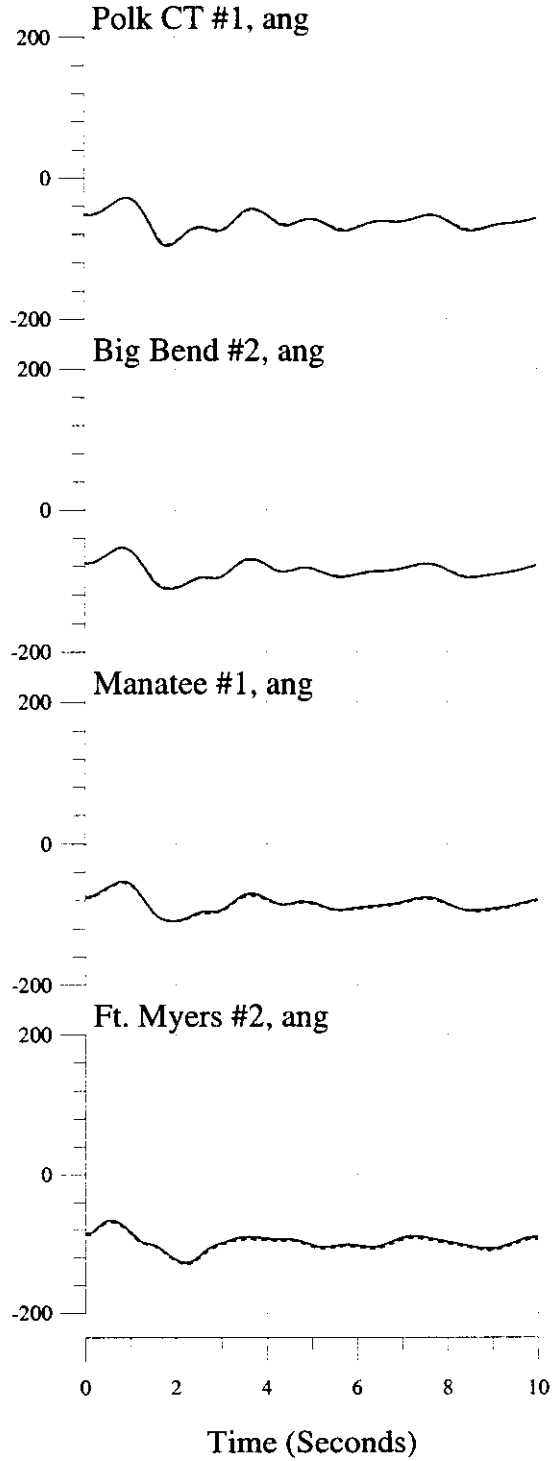
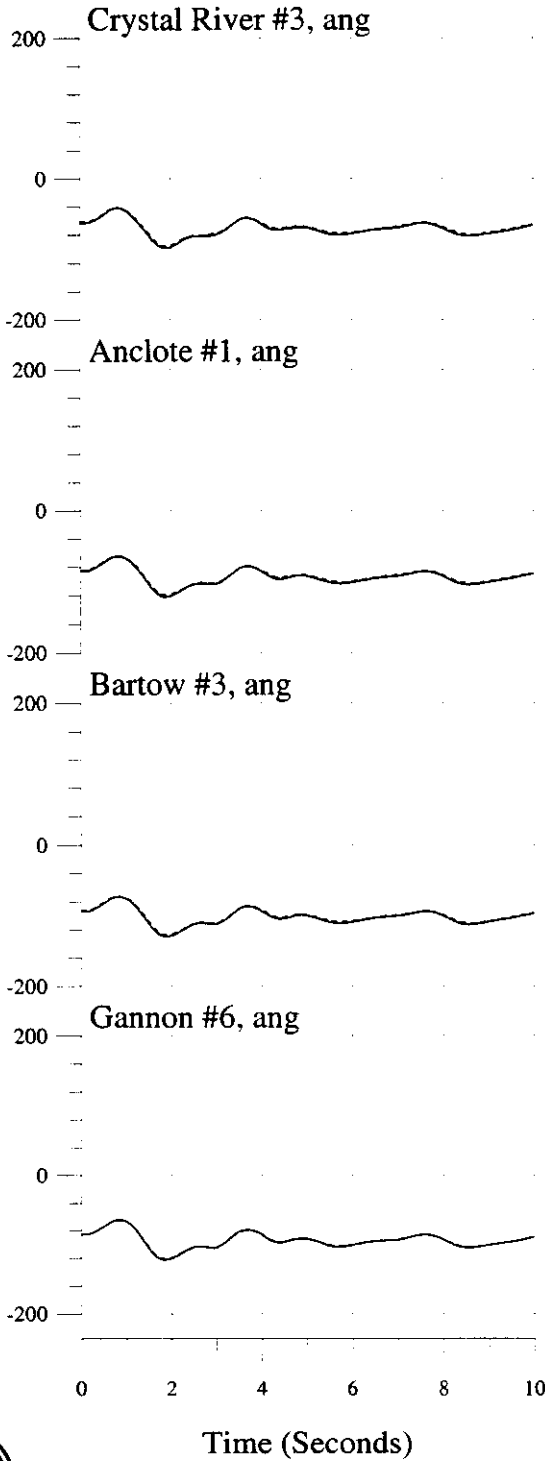
Time (Seconds)

Time (Seconds)



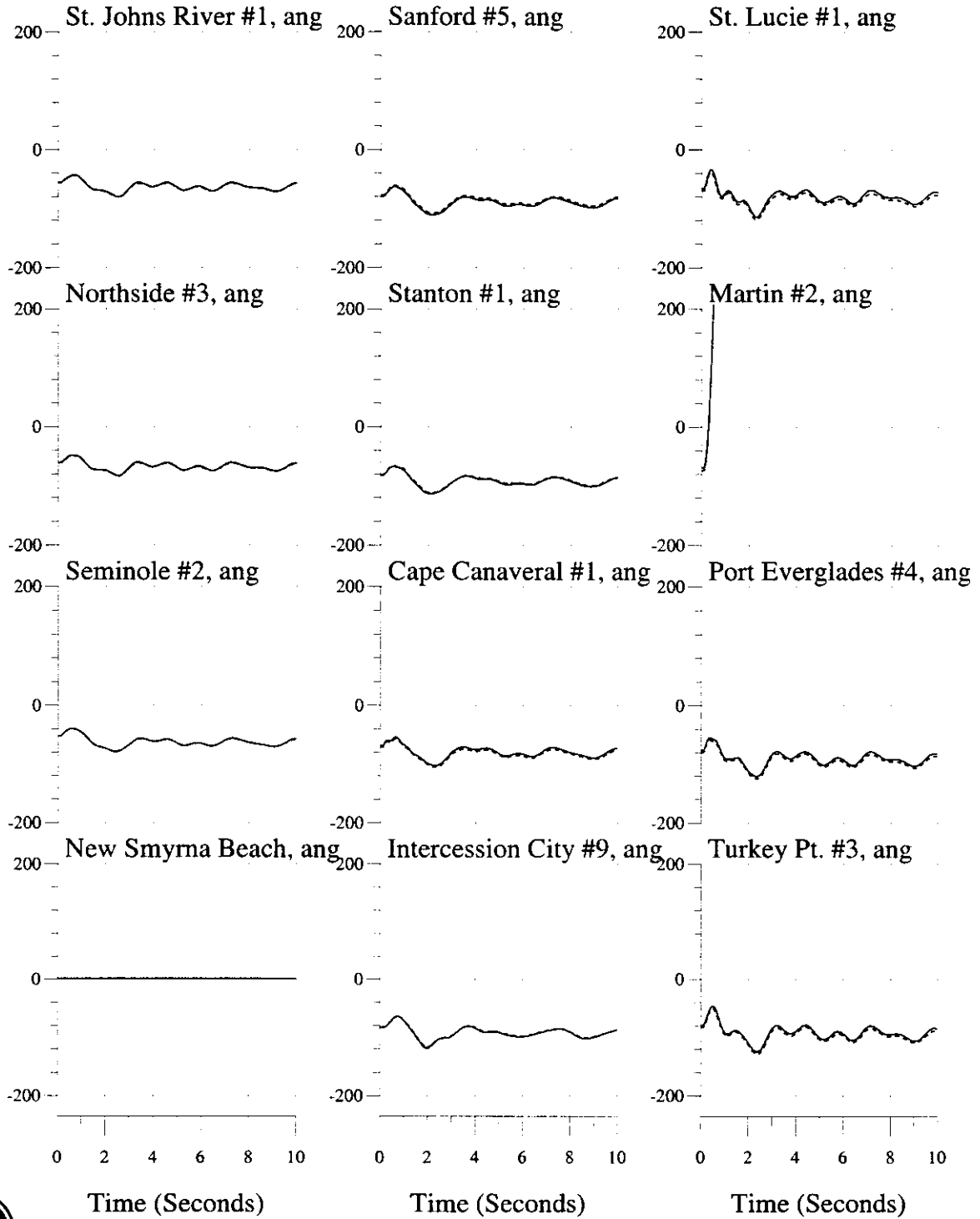
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



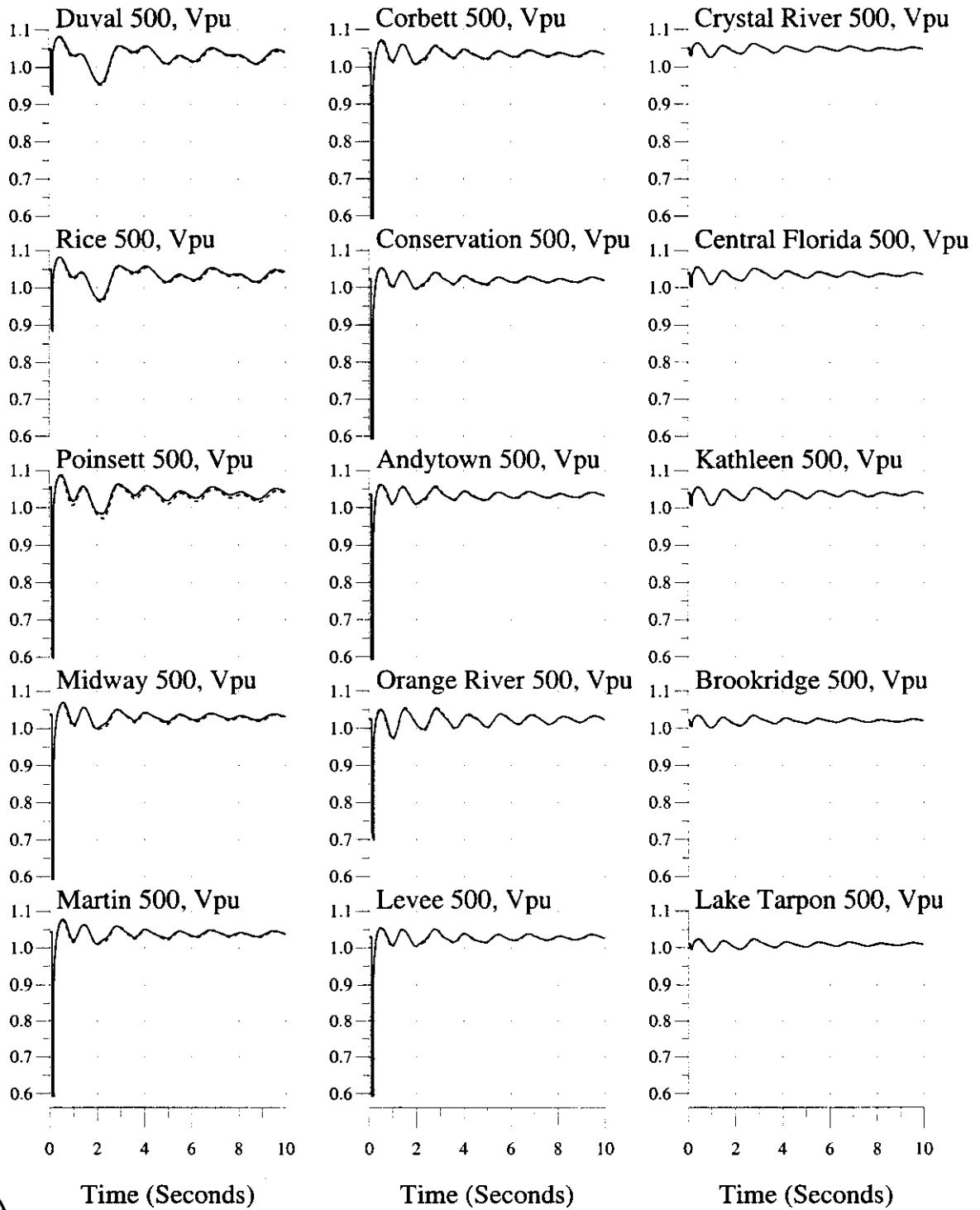
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



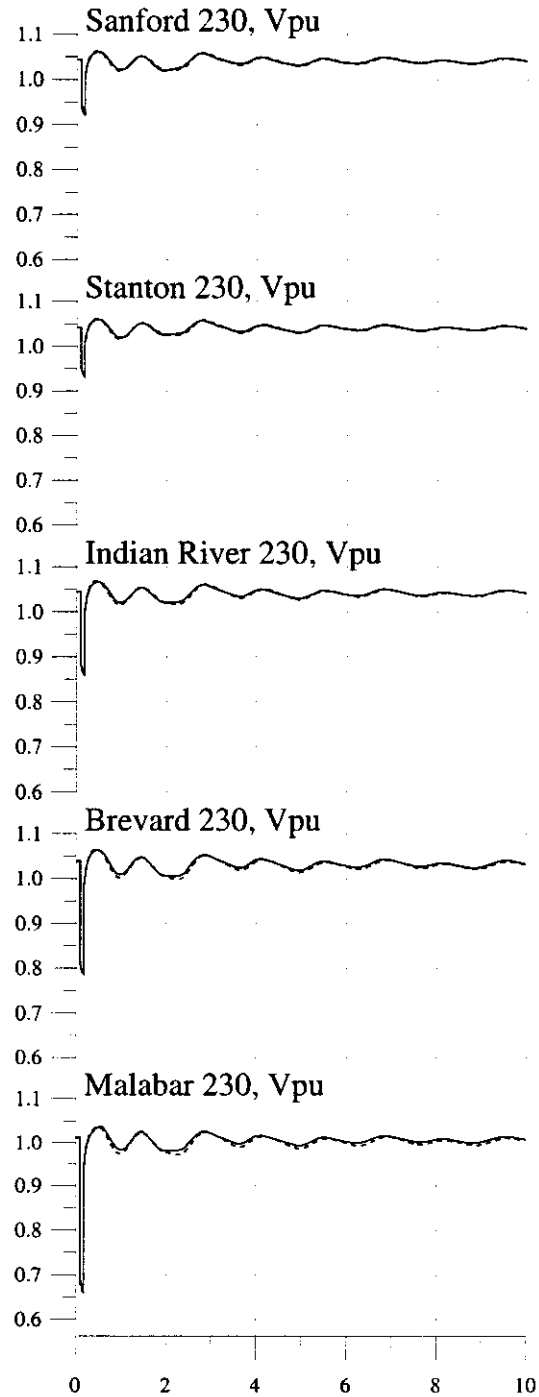
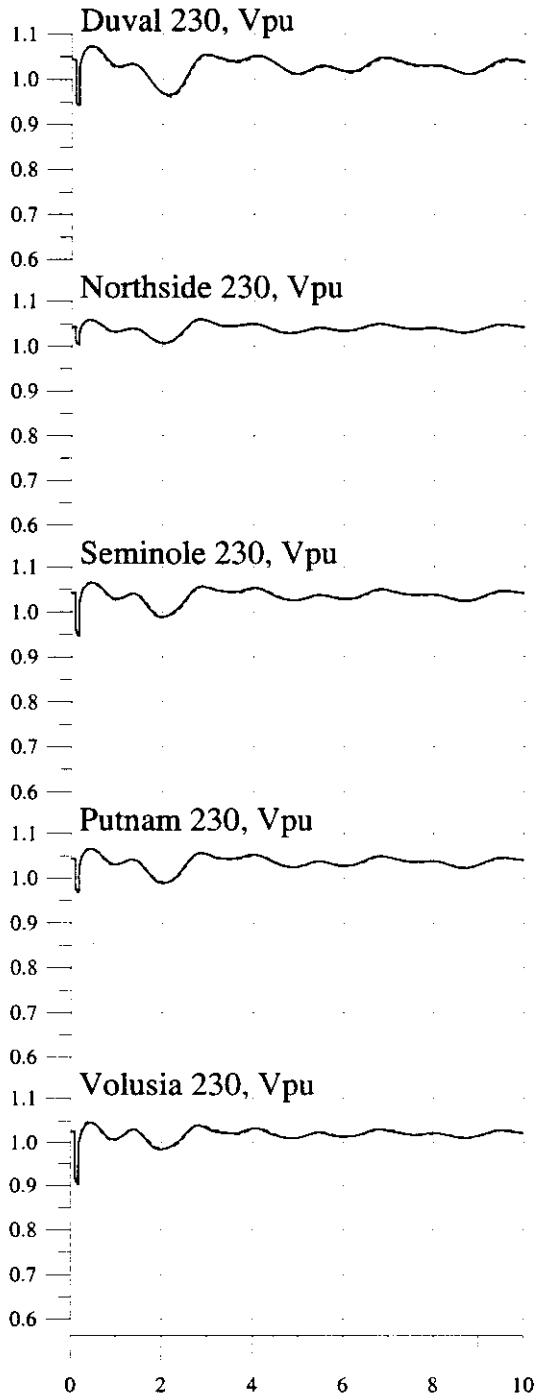
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without

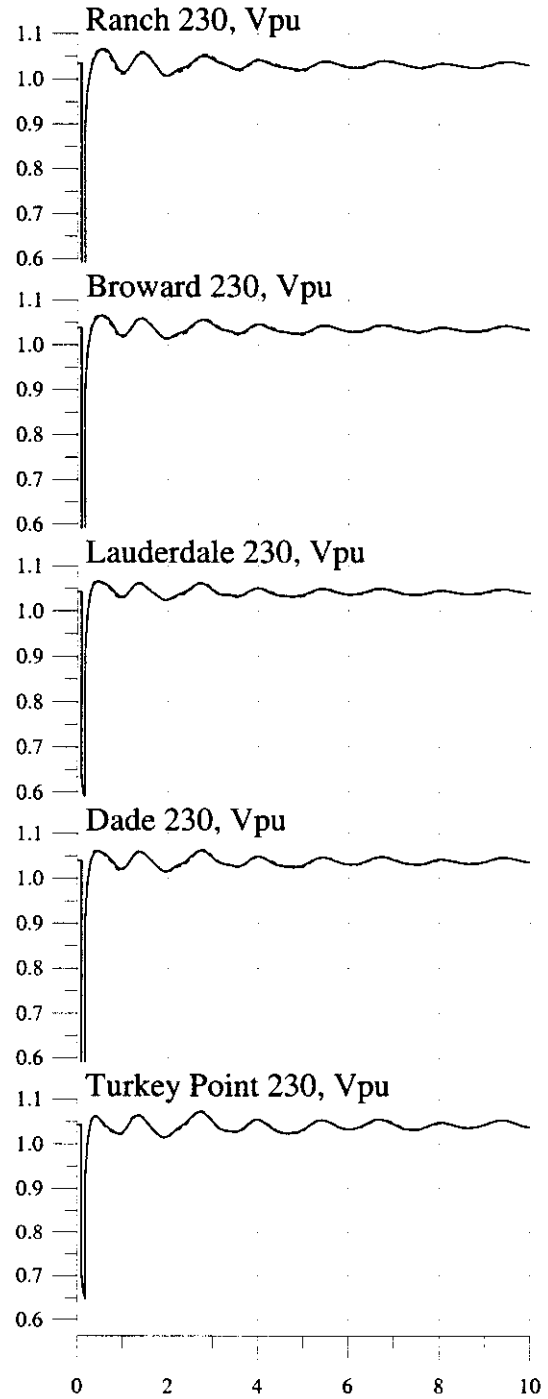
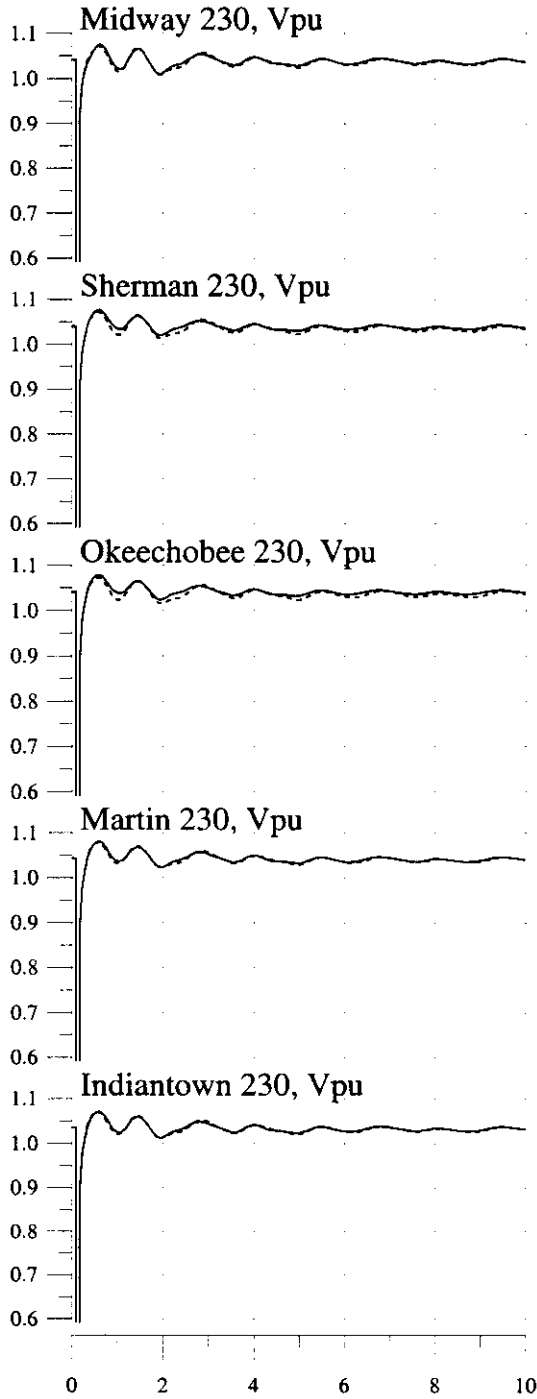


Time (Seconds)

Time (Seconds)

3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without

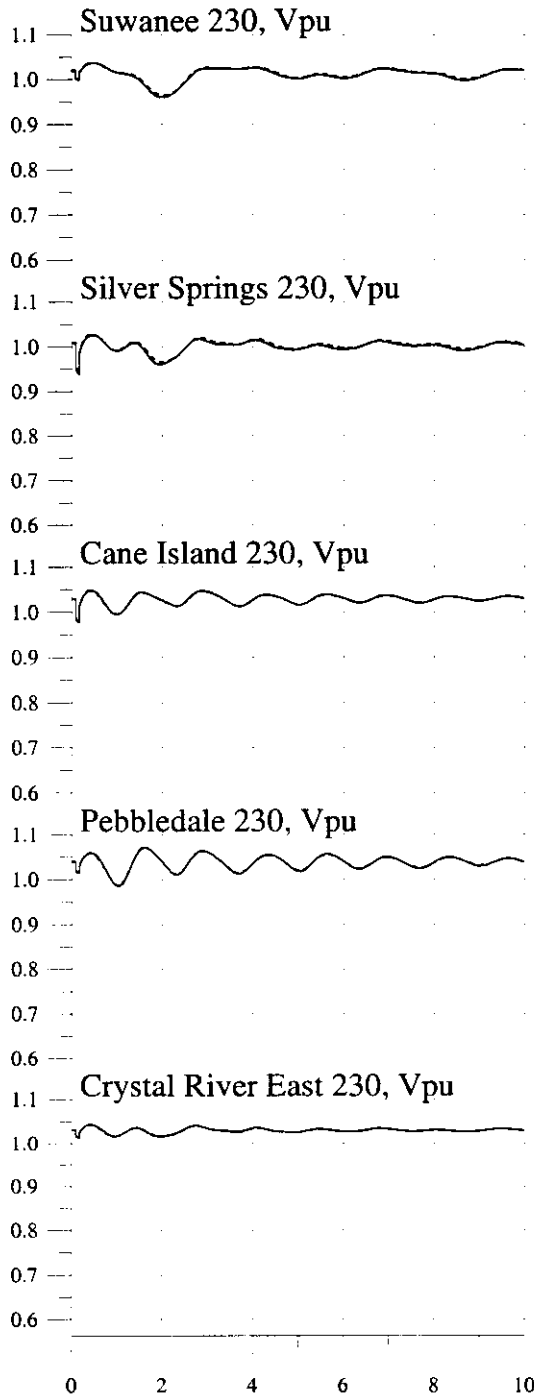


Time (Seconds)

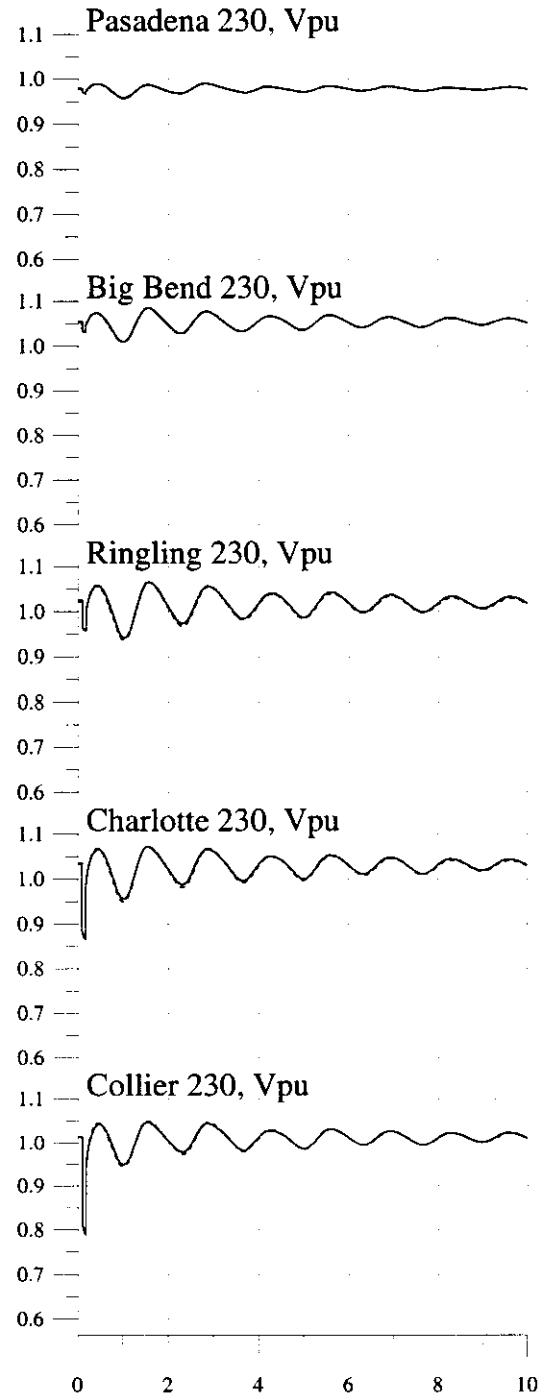
Time (Seconds)

3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



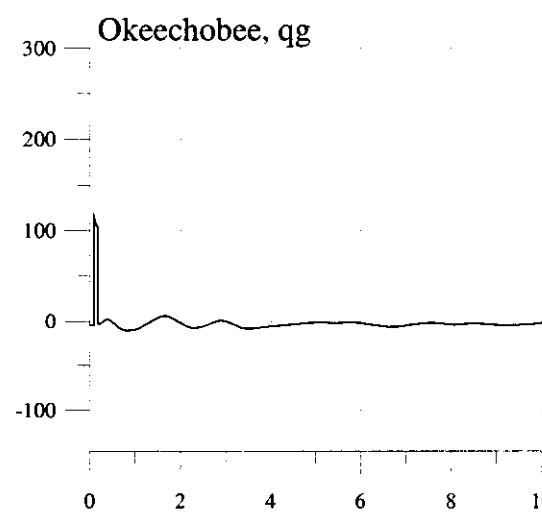
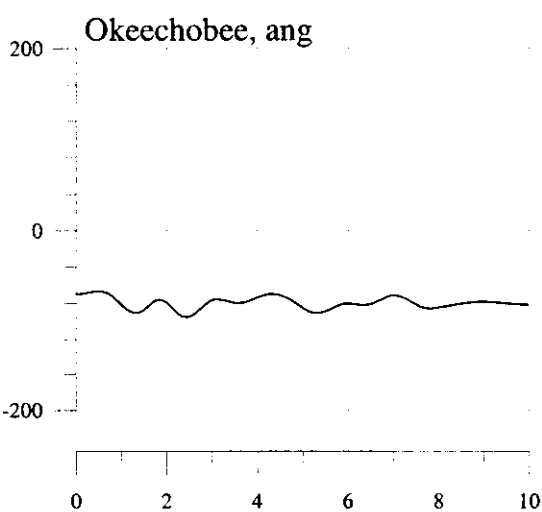
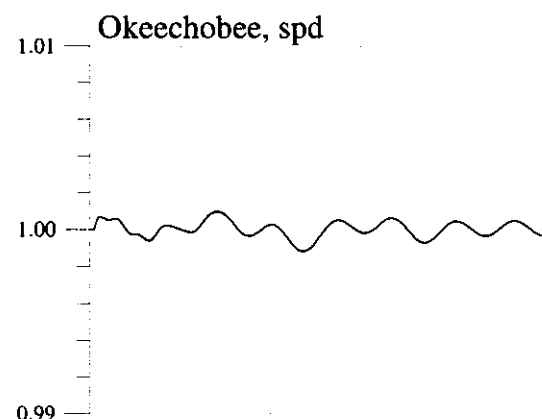
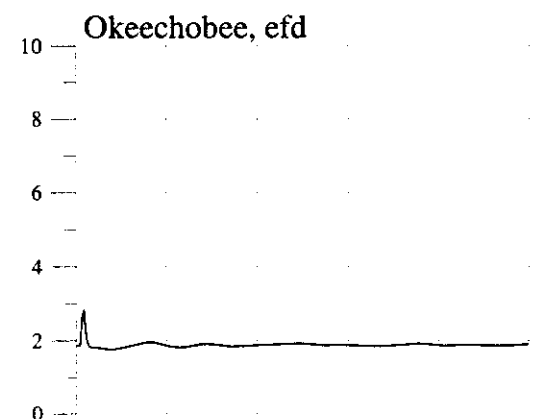
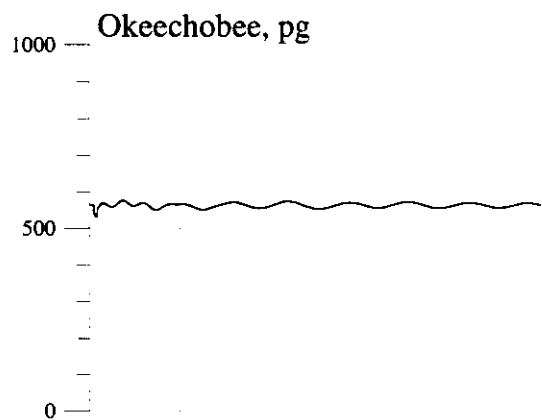
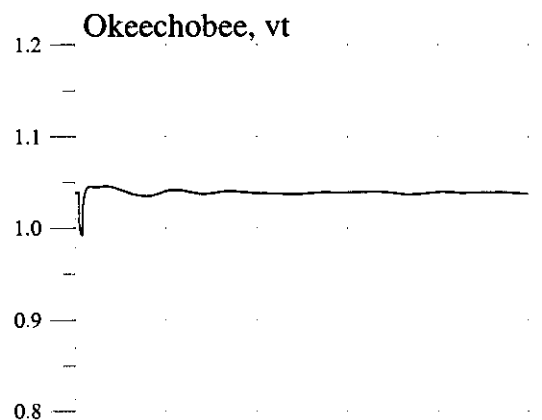
Time (Seconds)



Time (Seconds)



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System  
 Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



Time (Seconds)

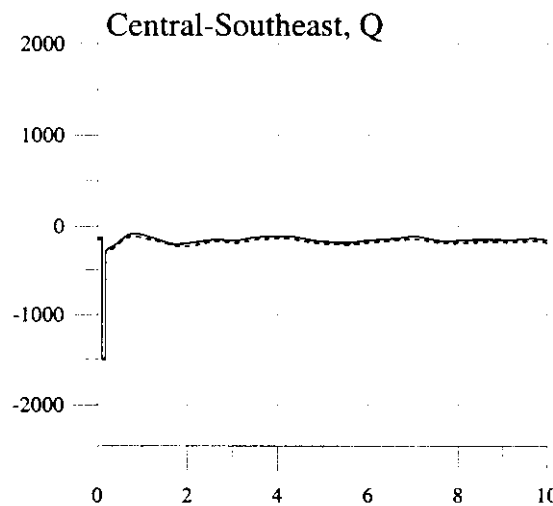
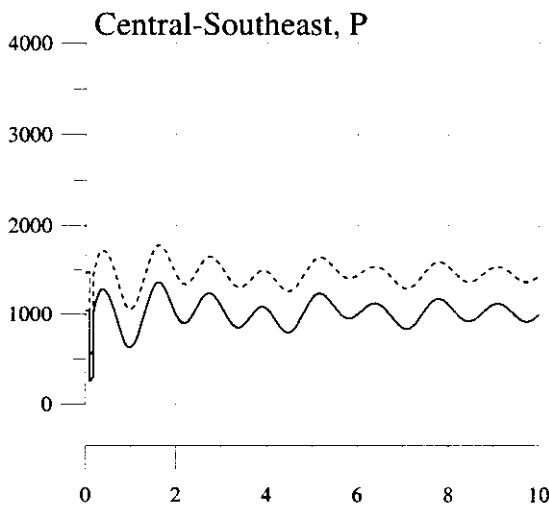
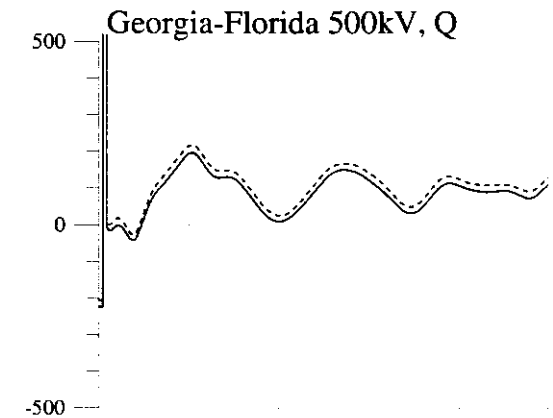
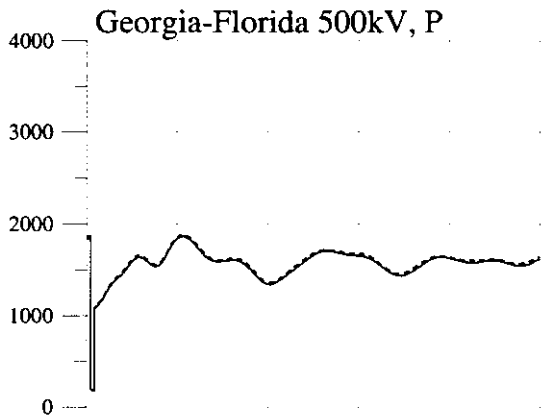
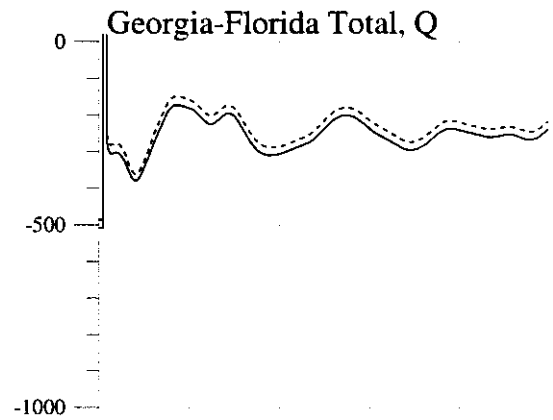
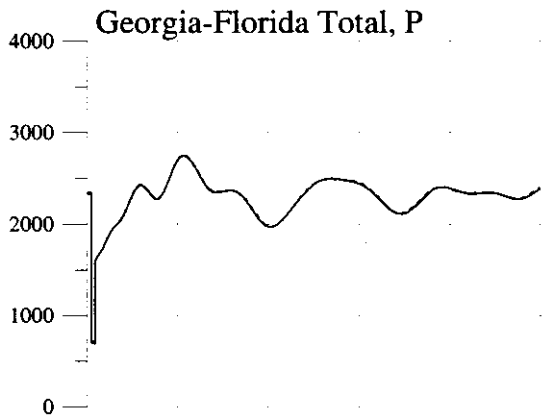
Time (Seconds)





3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



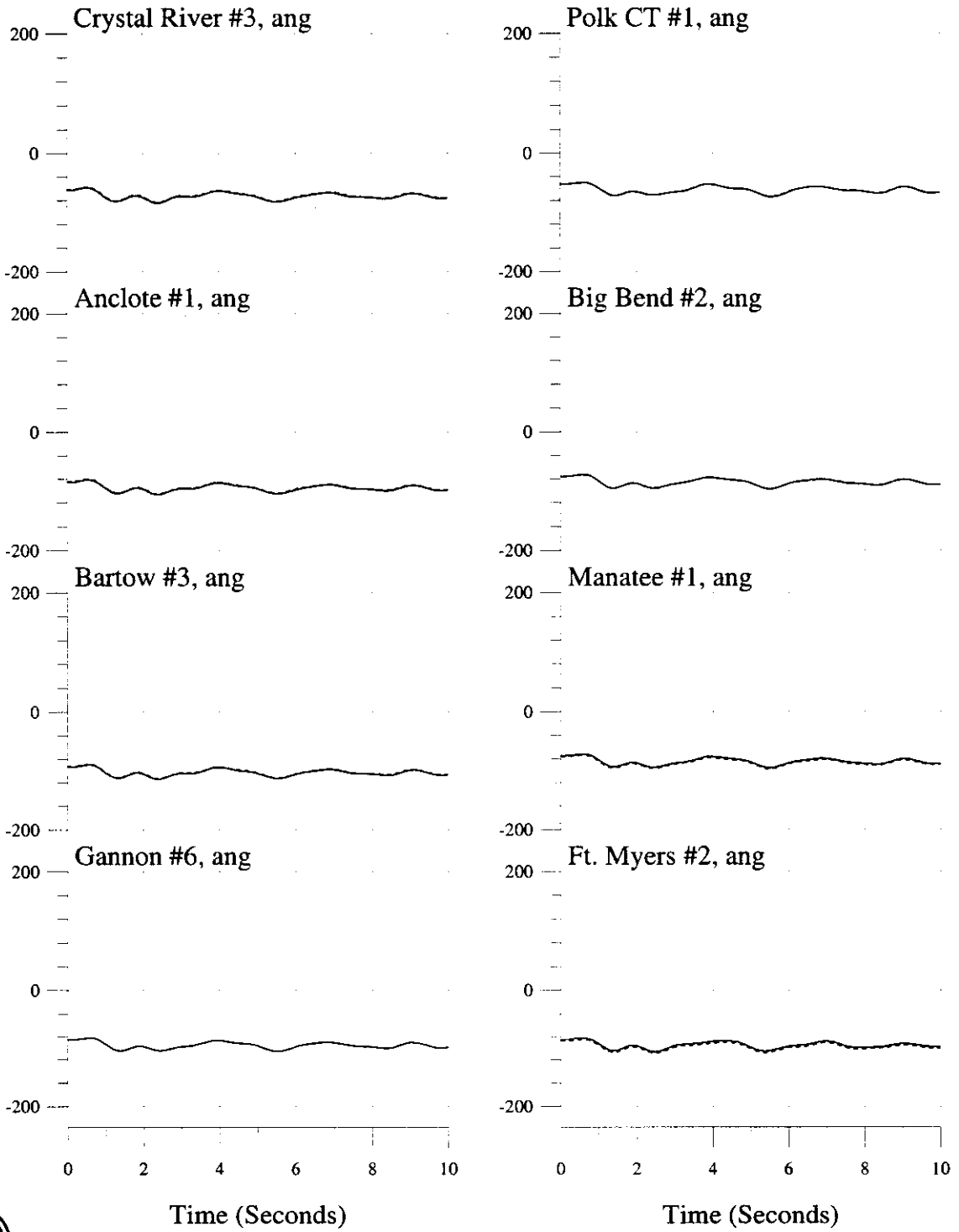
Time (Seconds)

Time (Seconds)



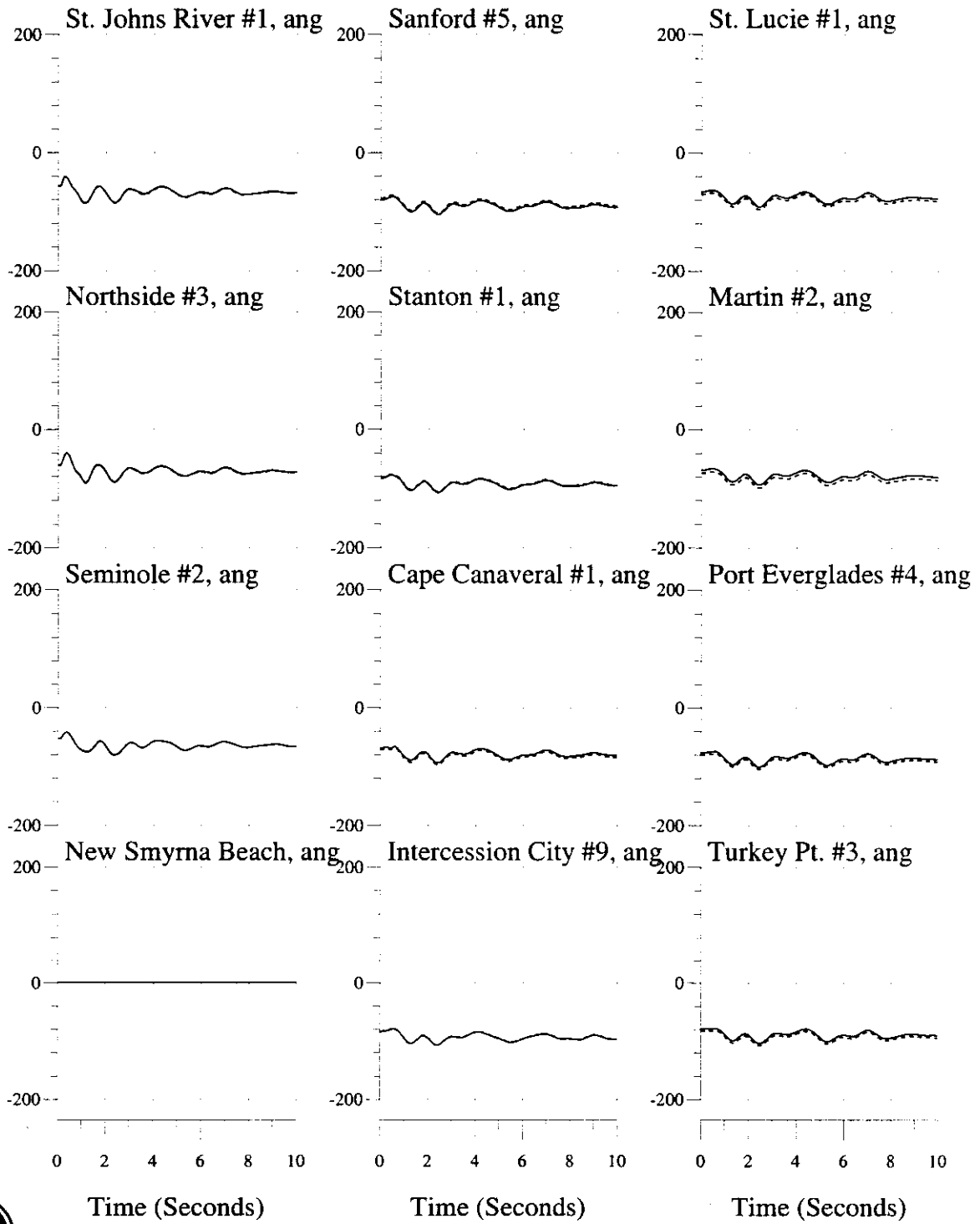
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



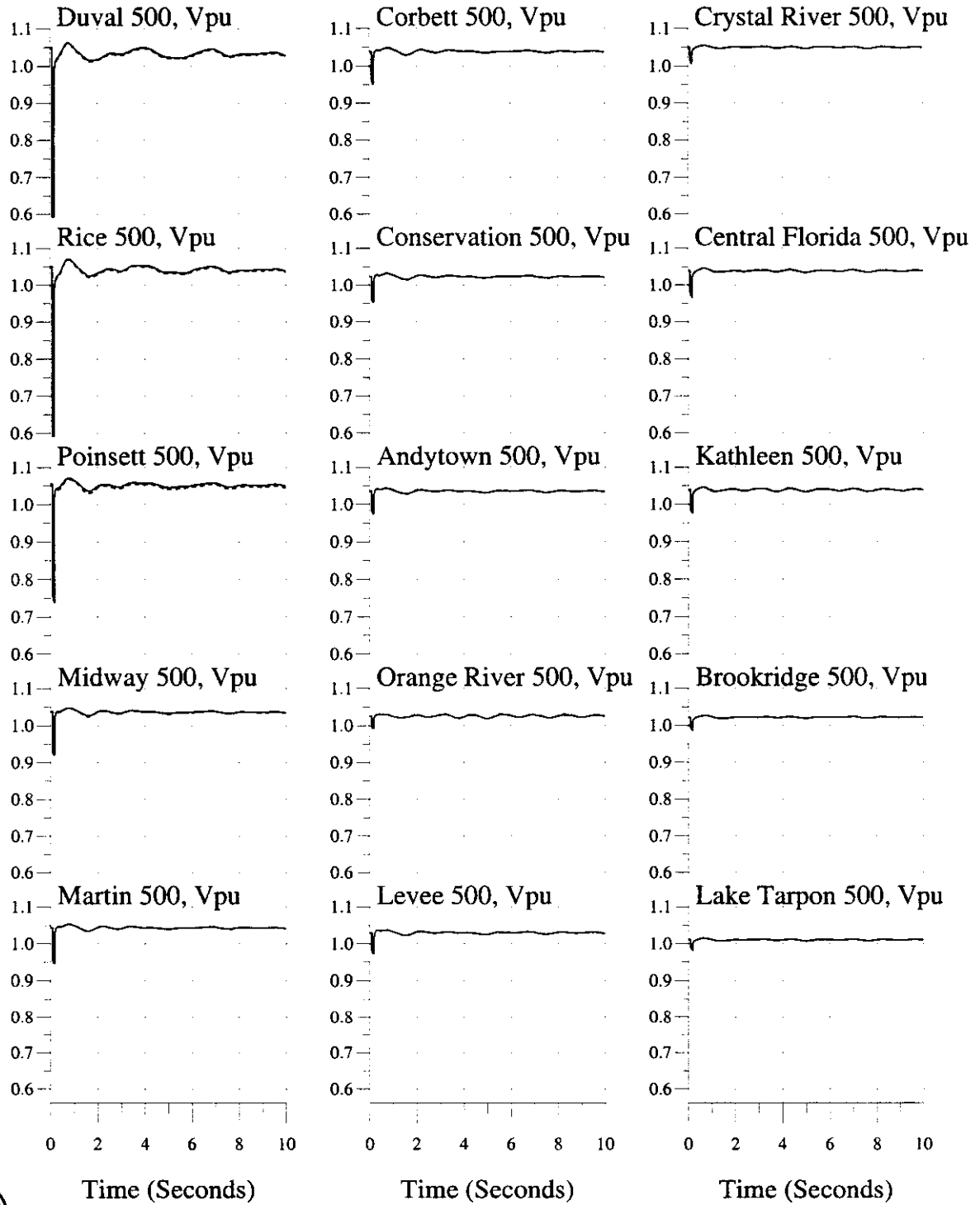
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



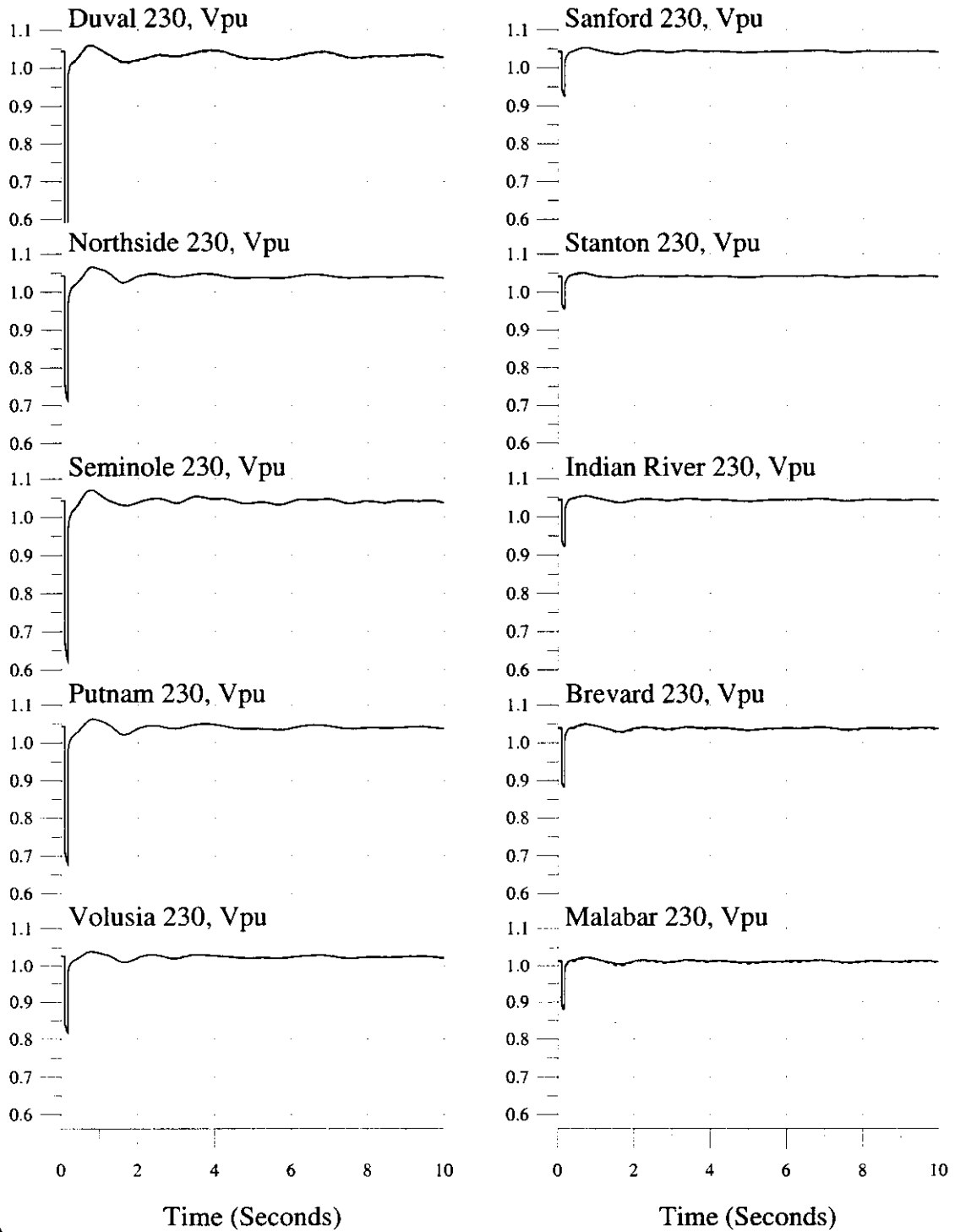
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



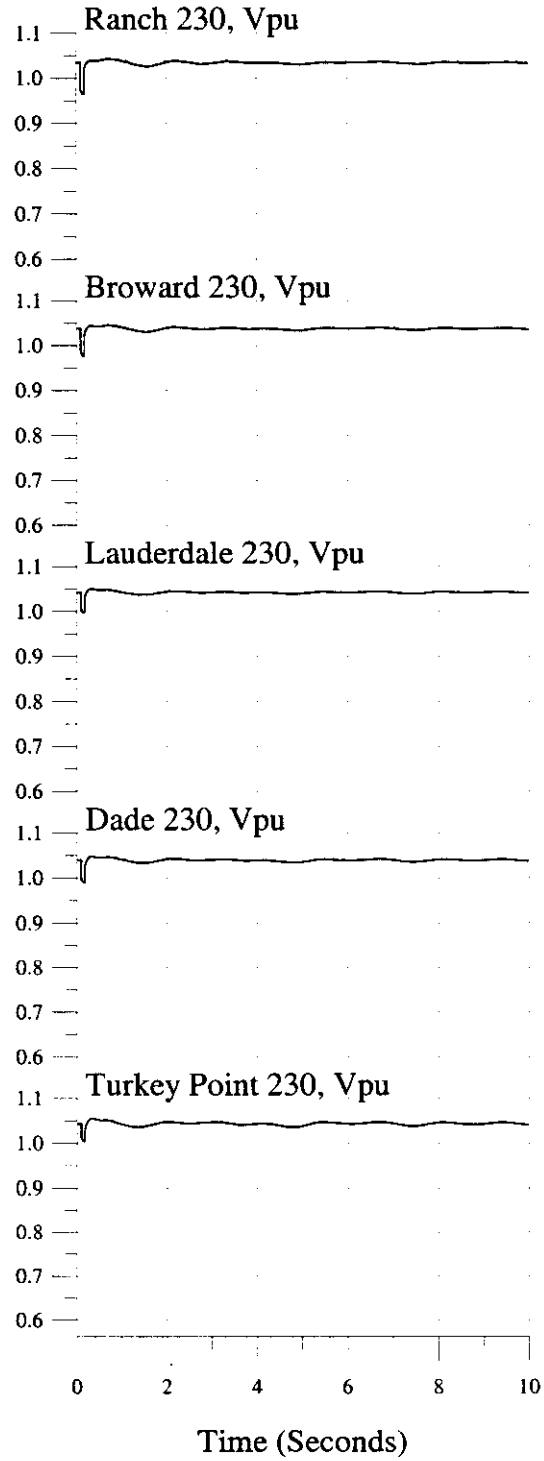
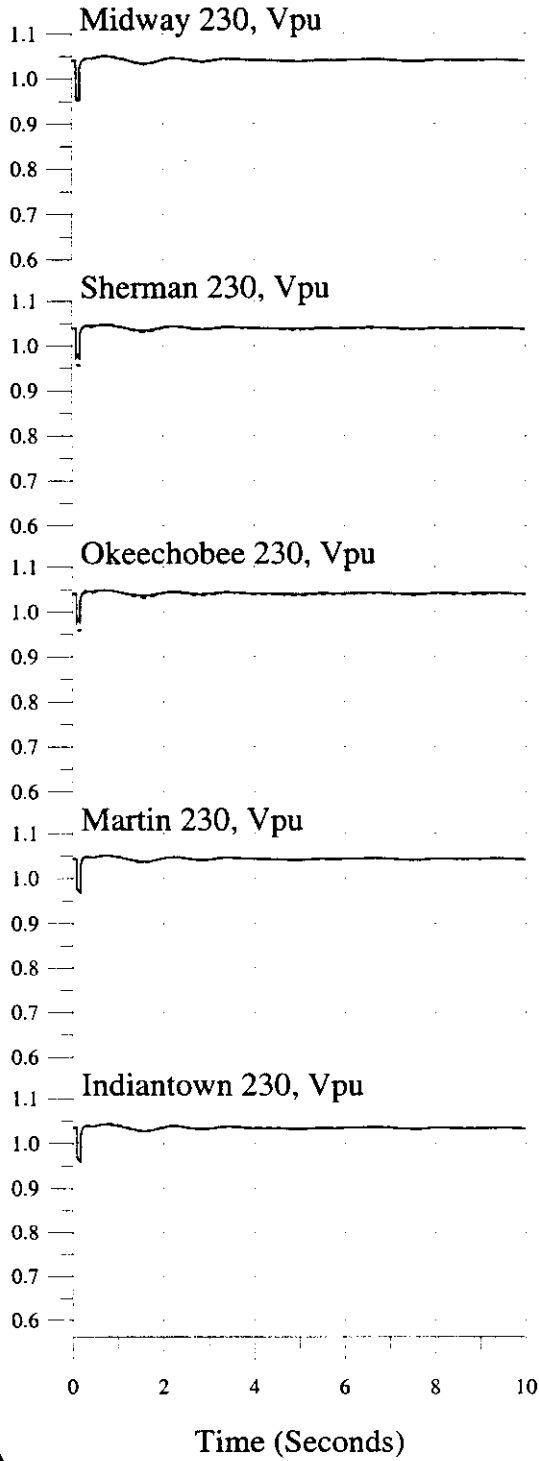
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



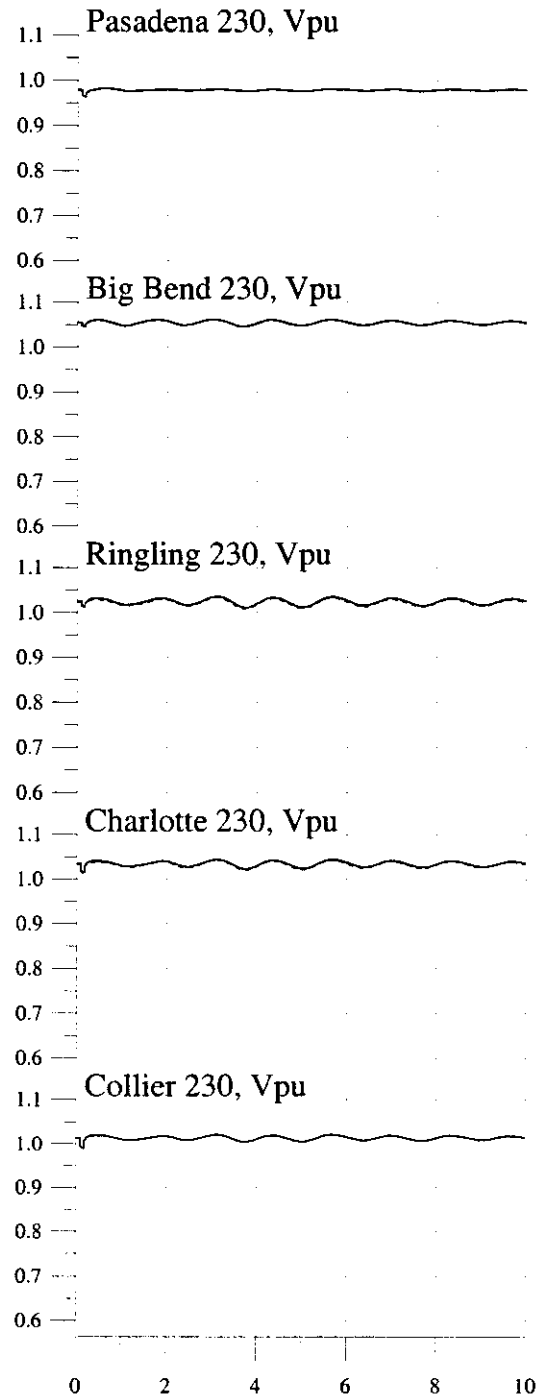
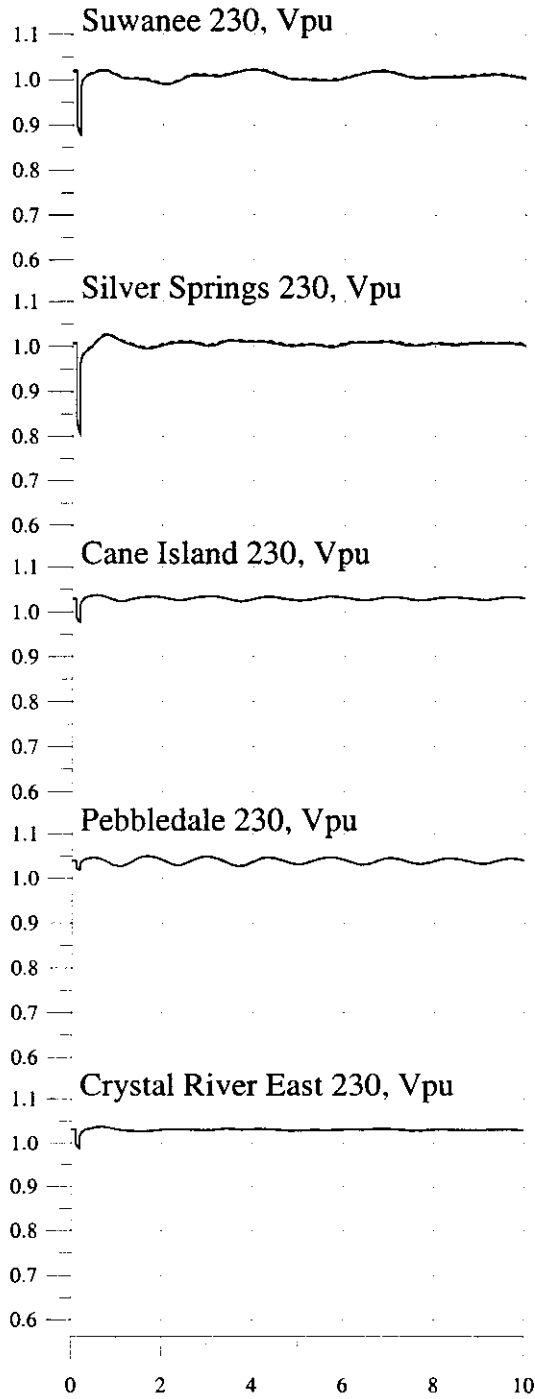
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without

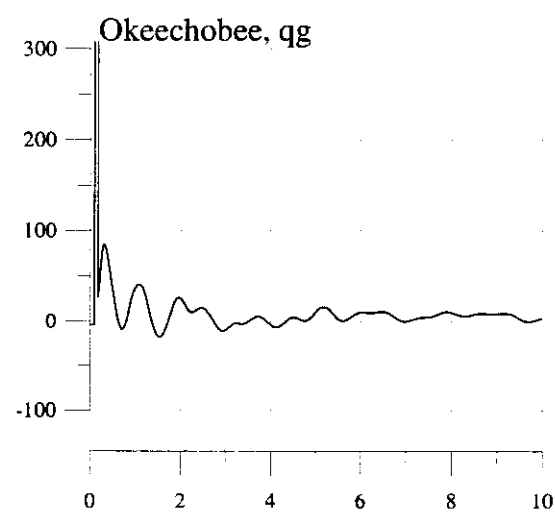
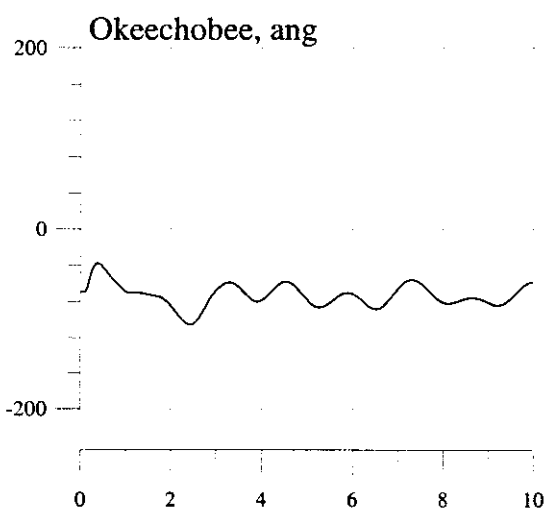
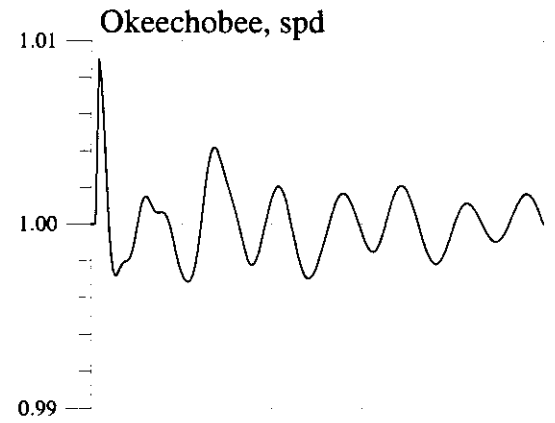
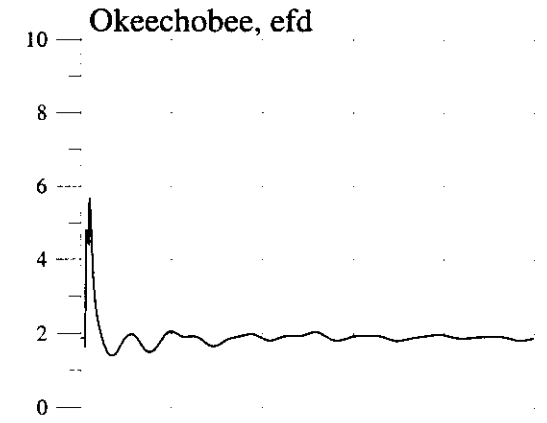
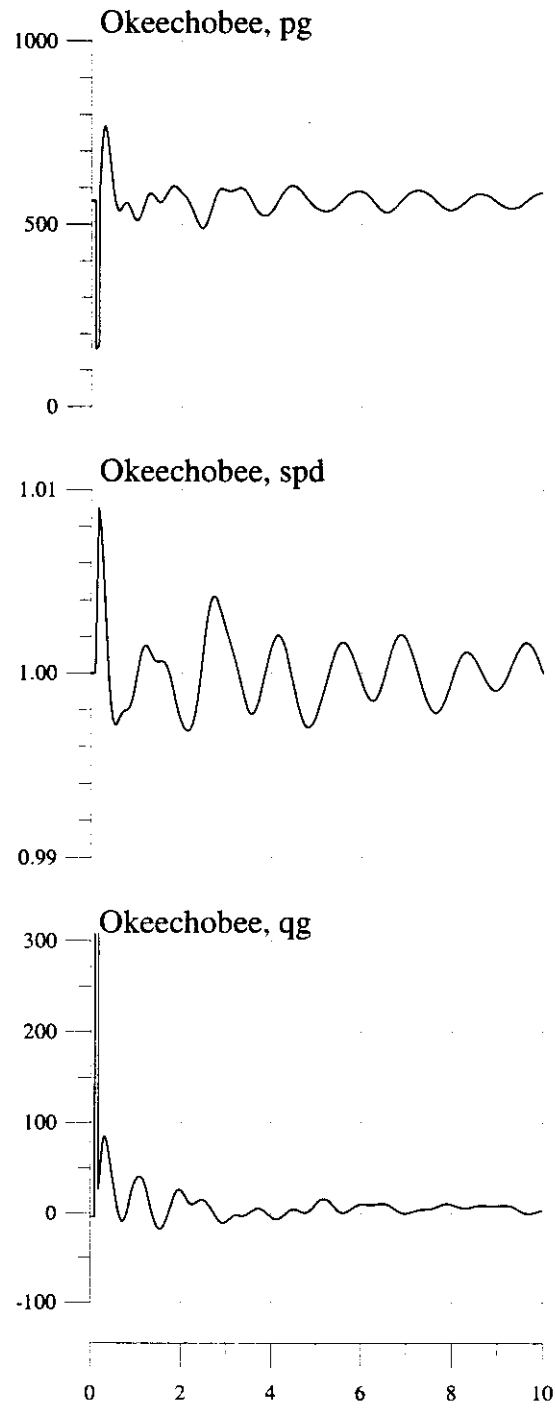
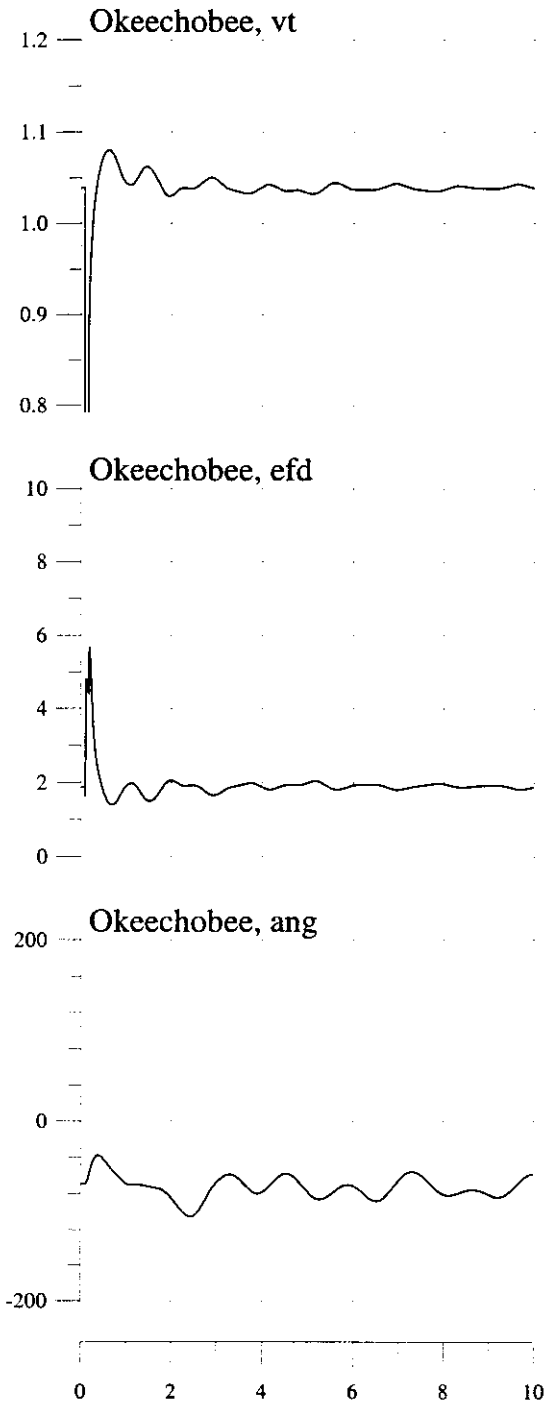


Time (Seconds)

Time (Seconds)



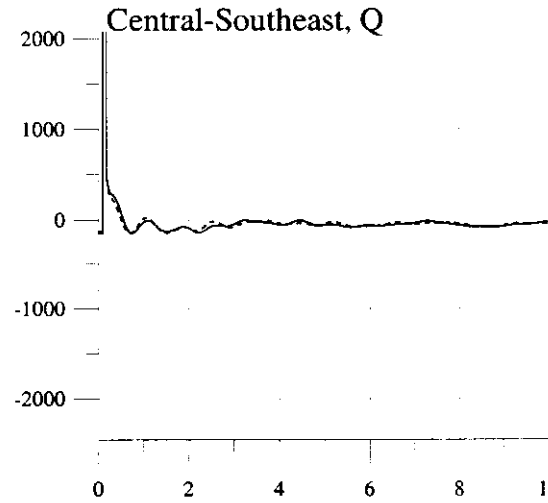
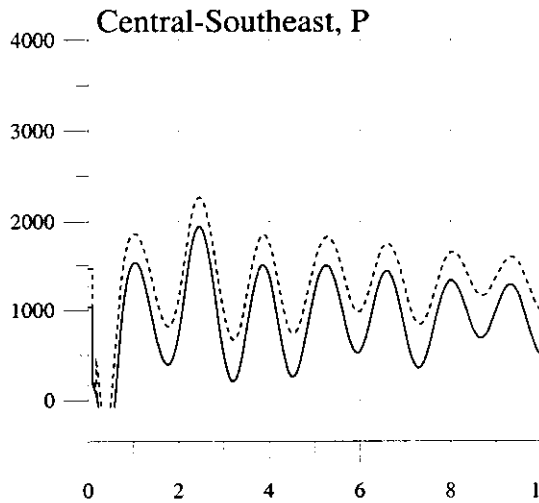
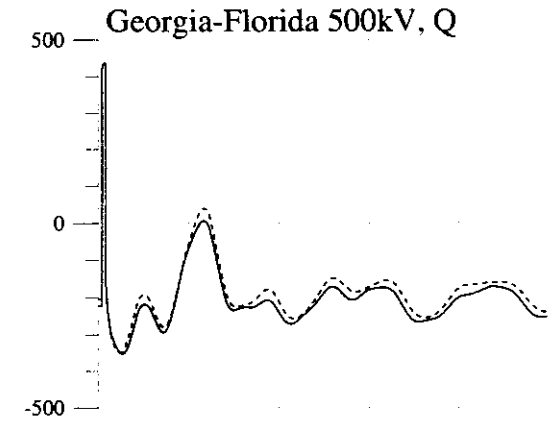
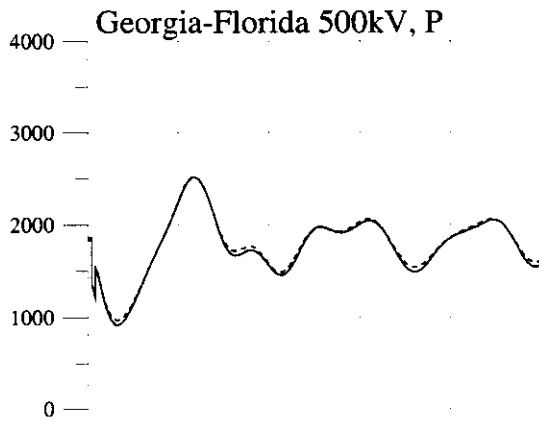
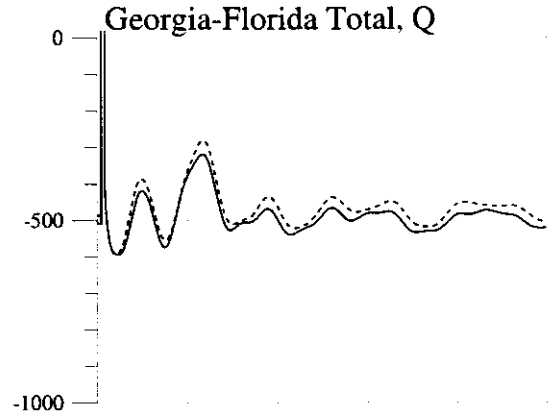
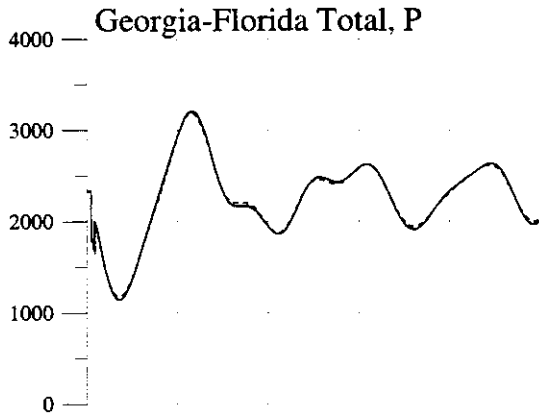
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System  
 Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without





3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



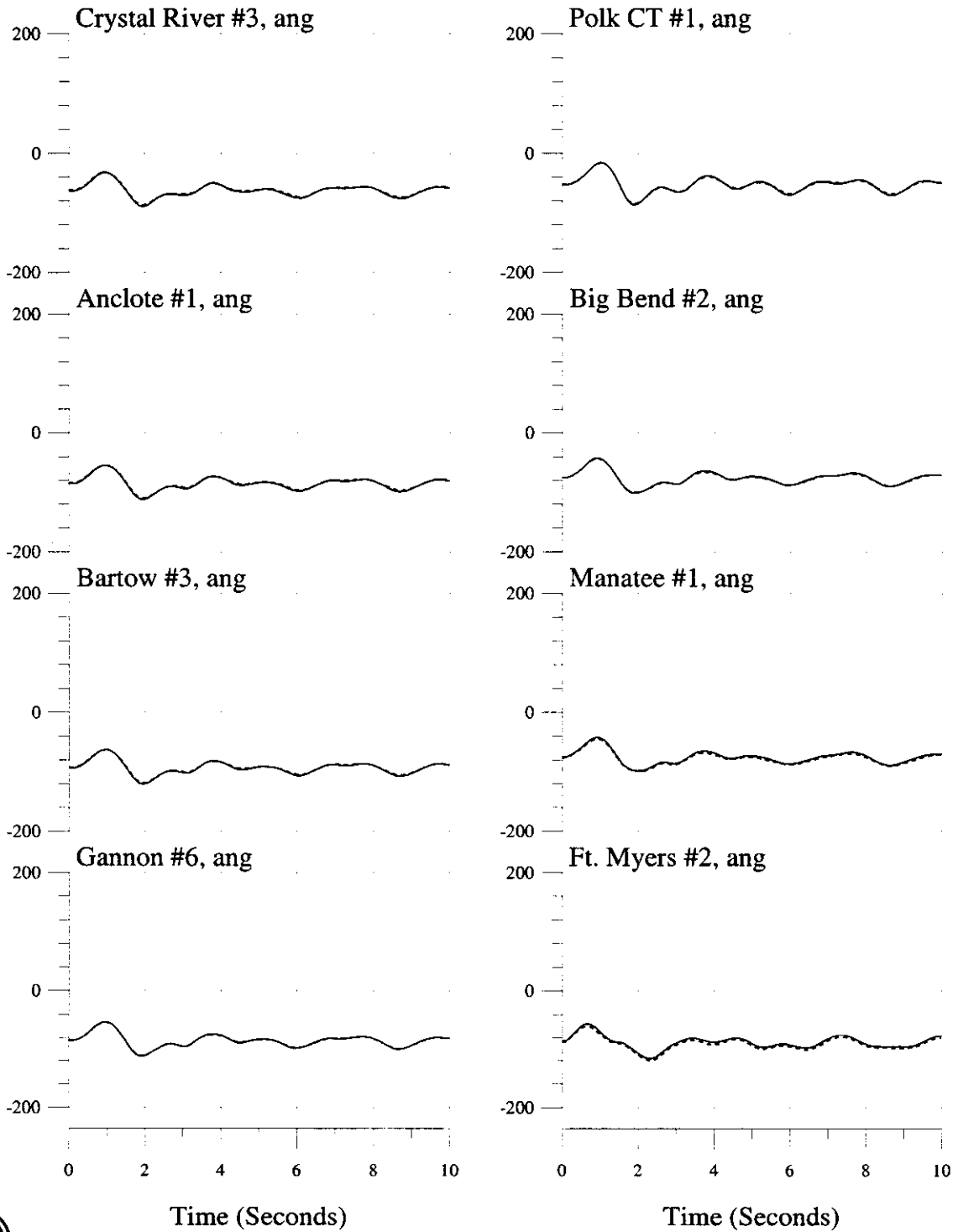
Time (Seconds)

Time (Seconds)



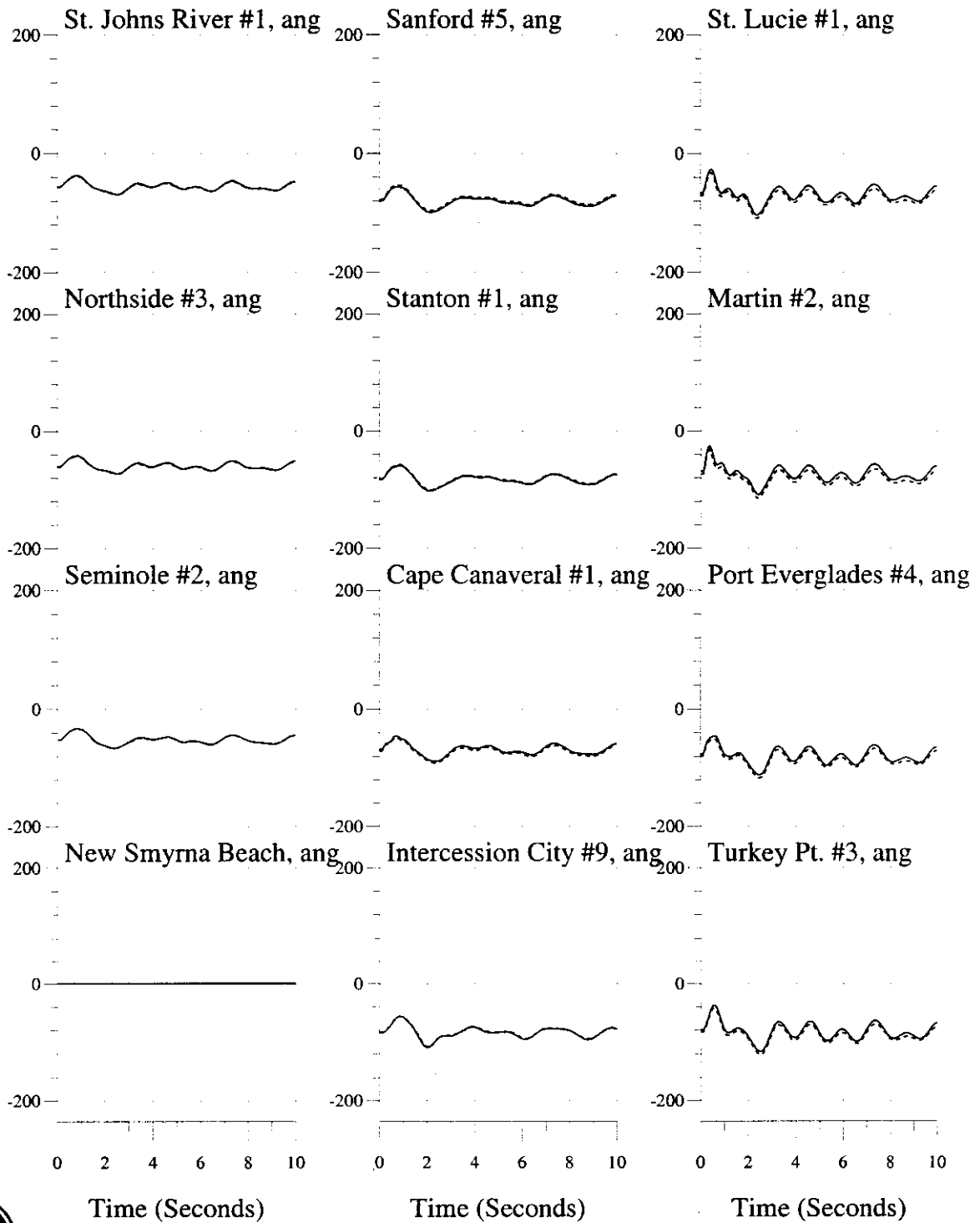
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



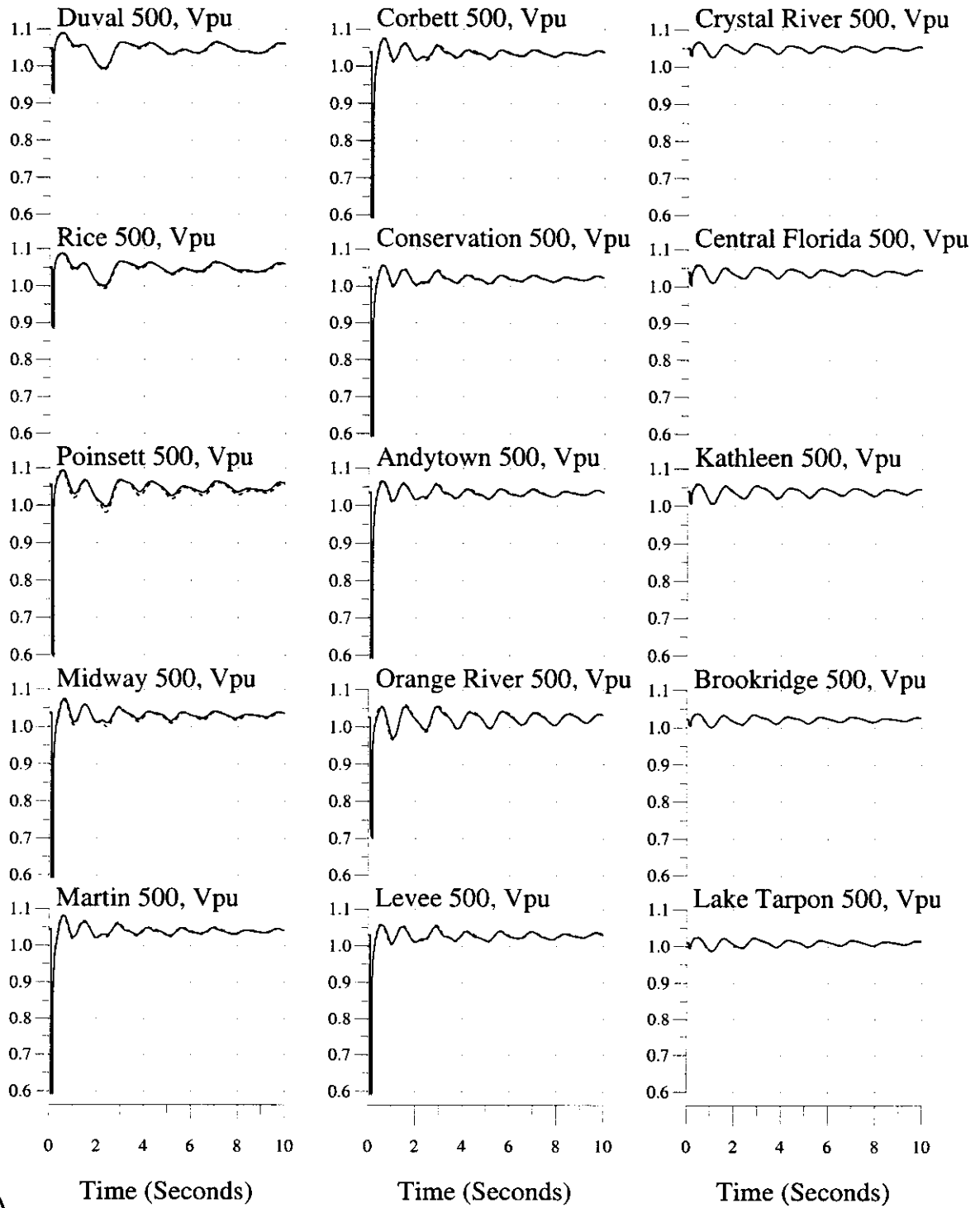
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



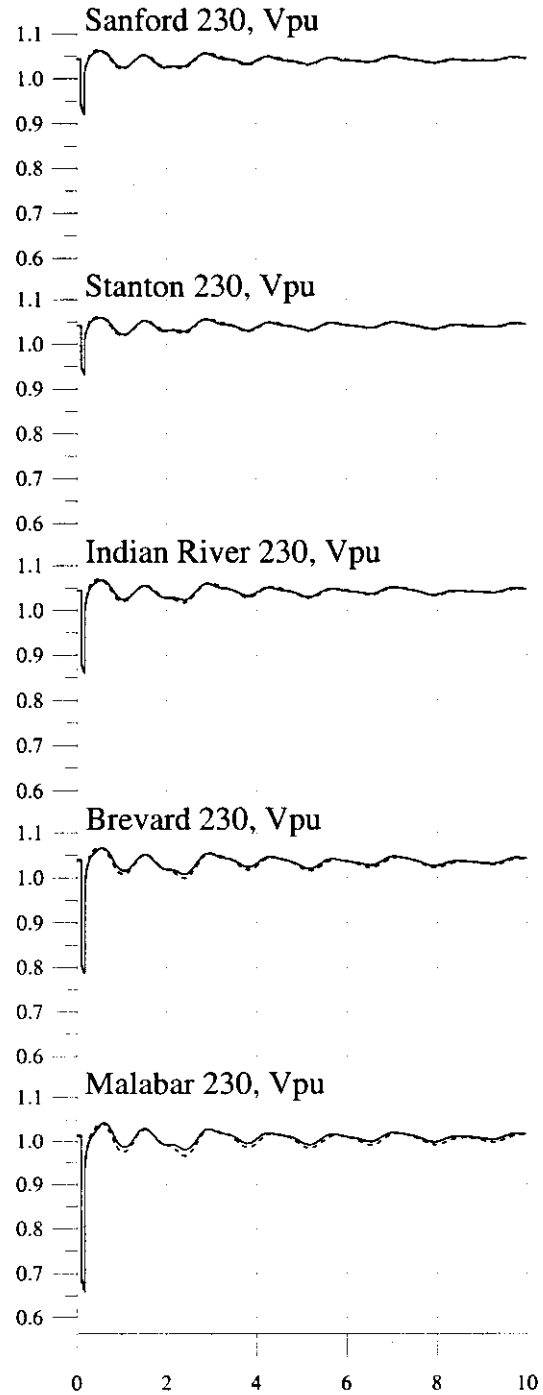
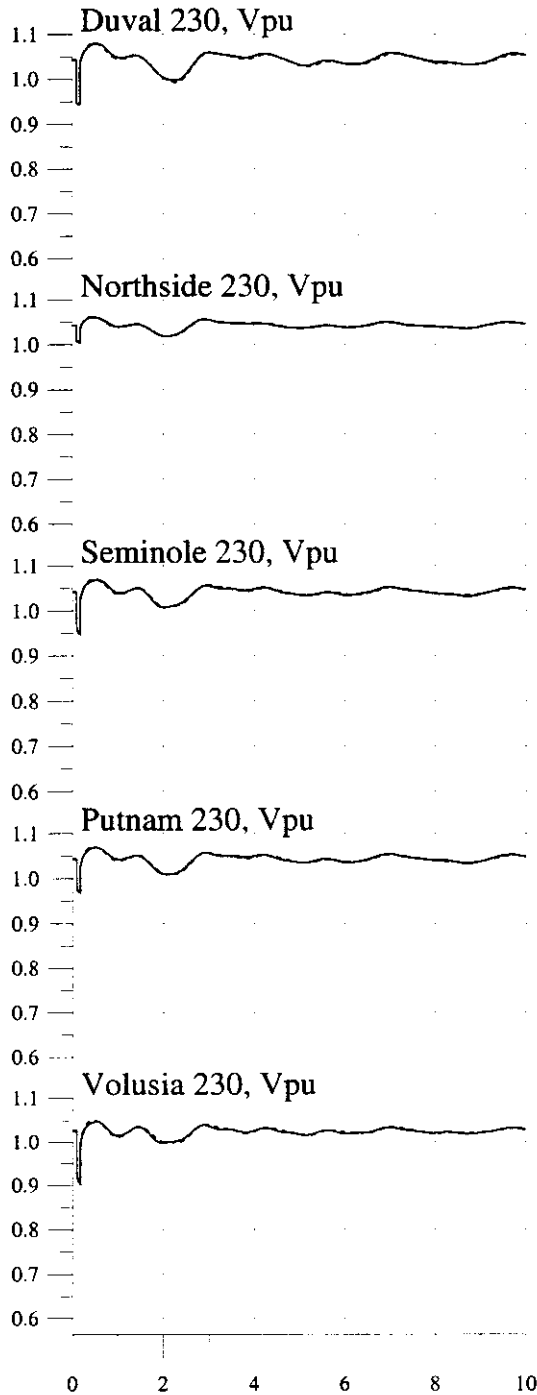
### 3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



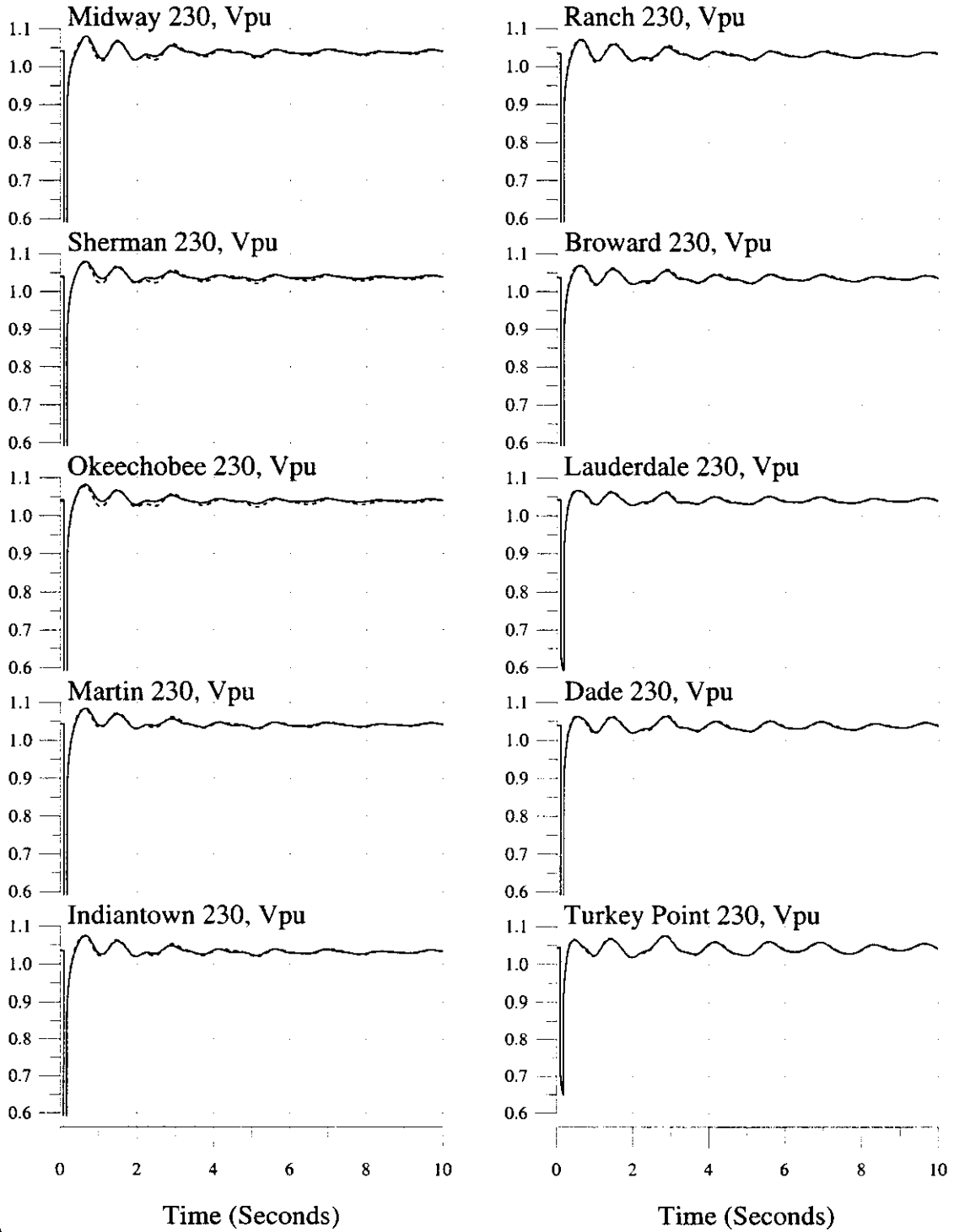
Time (Seconds)

Time (Seconds)



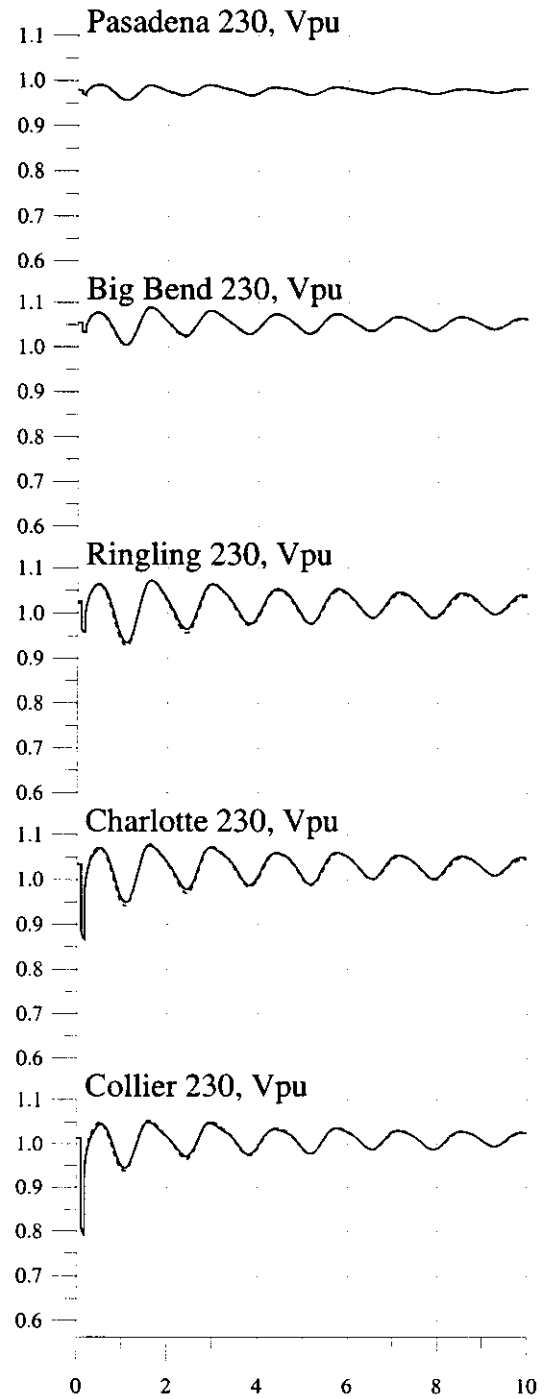
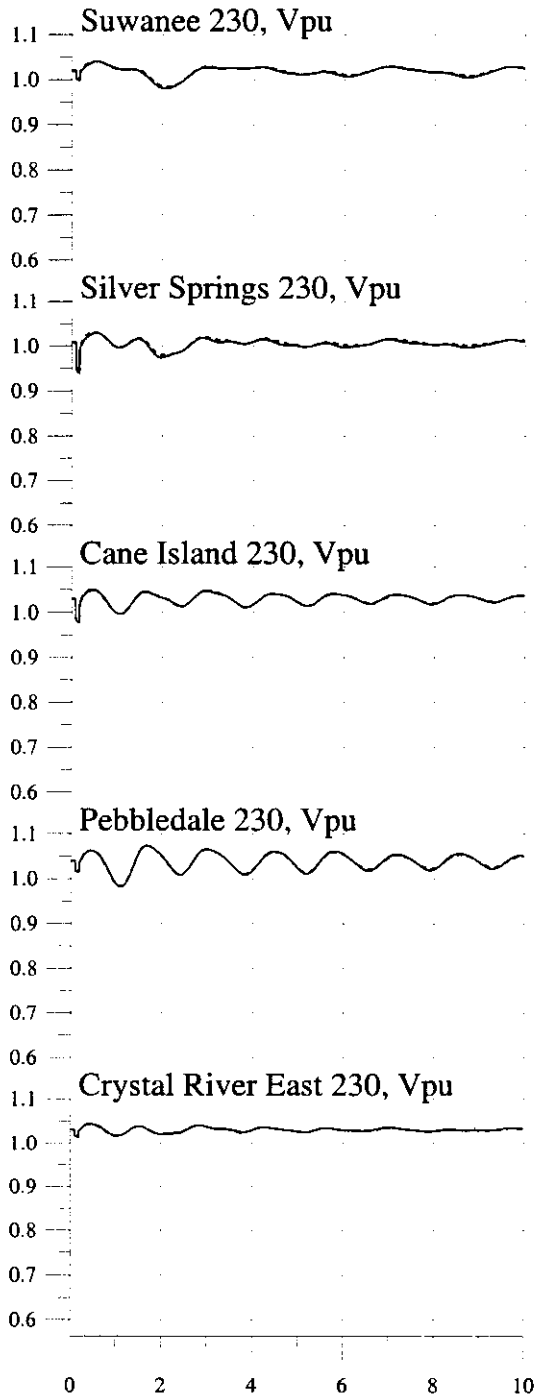
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



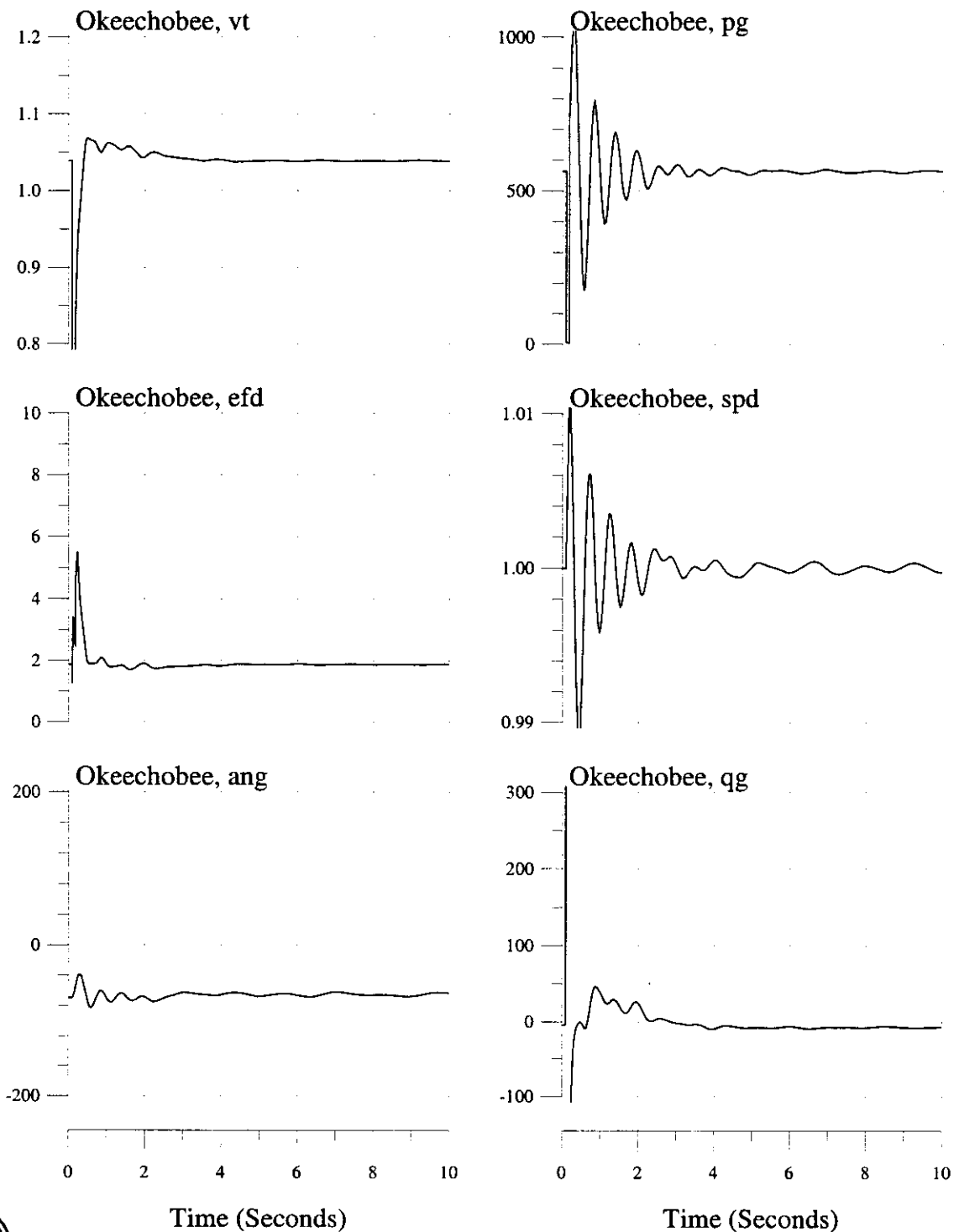
### 3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



# 3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line 2003 Winter System

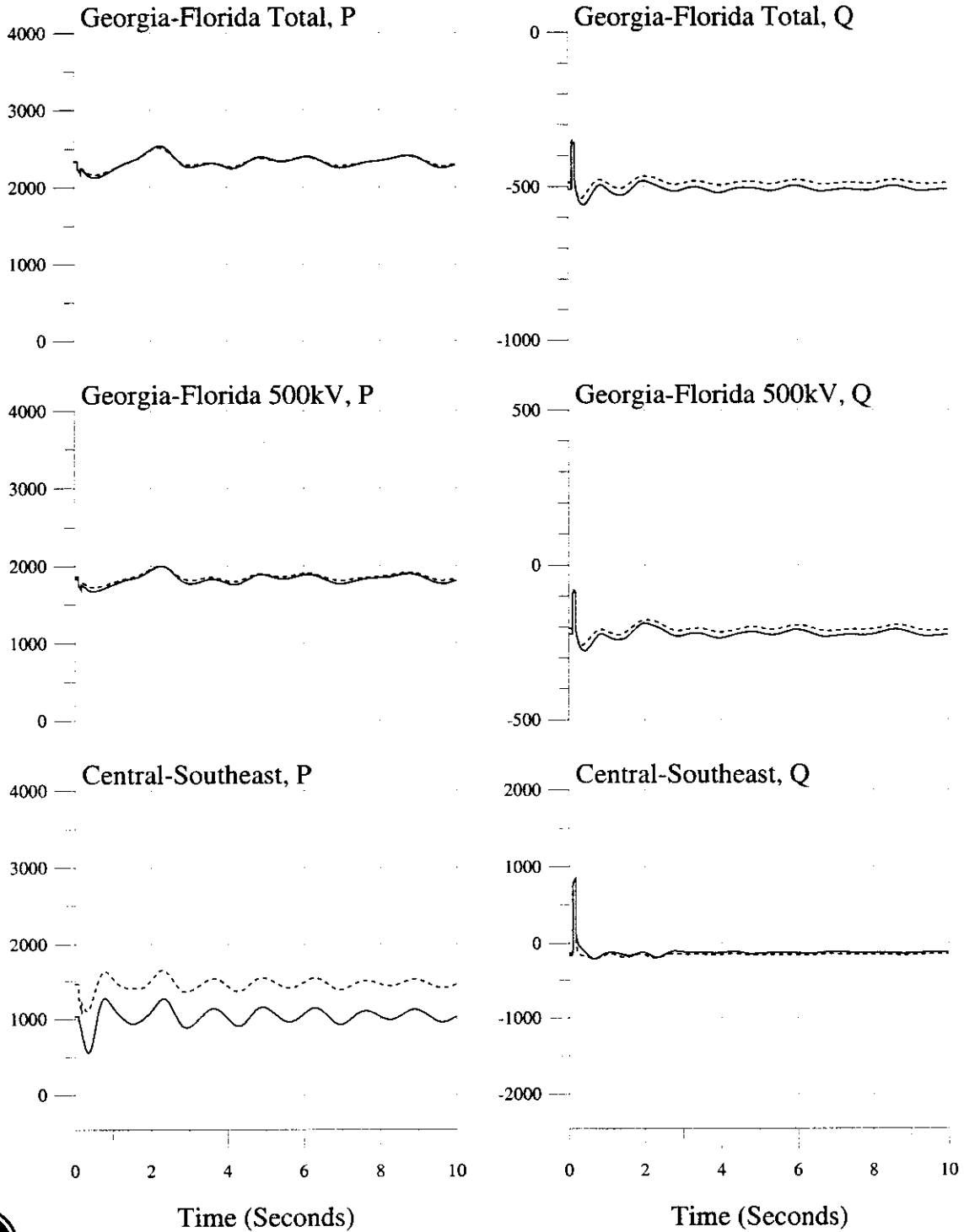
Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without





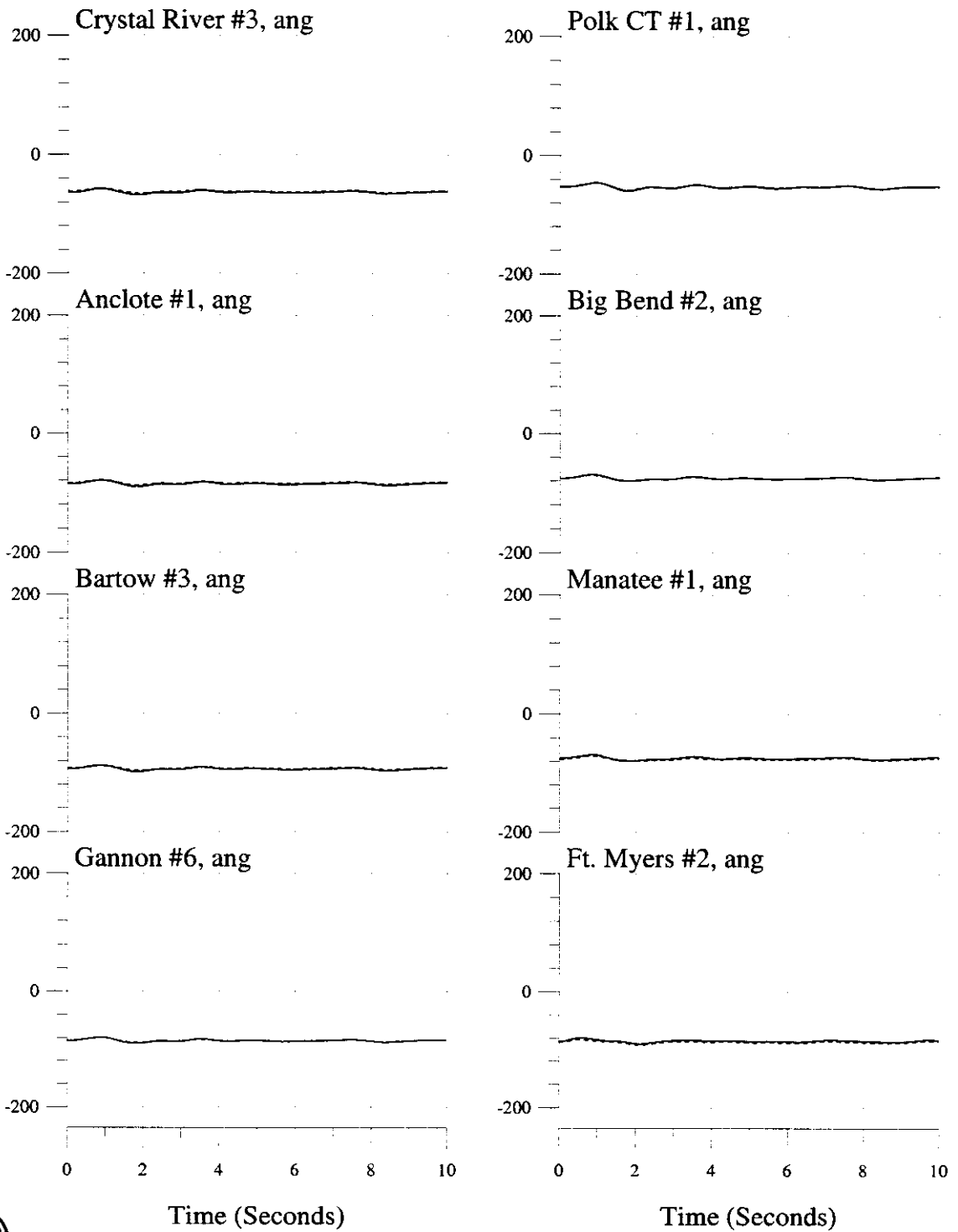
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



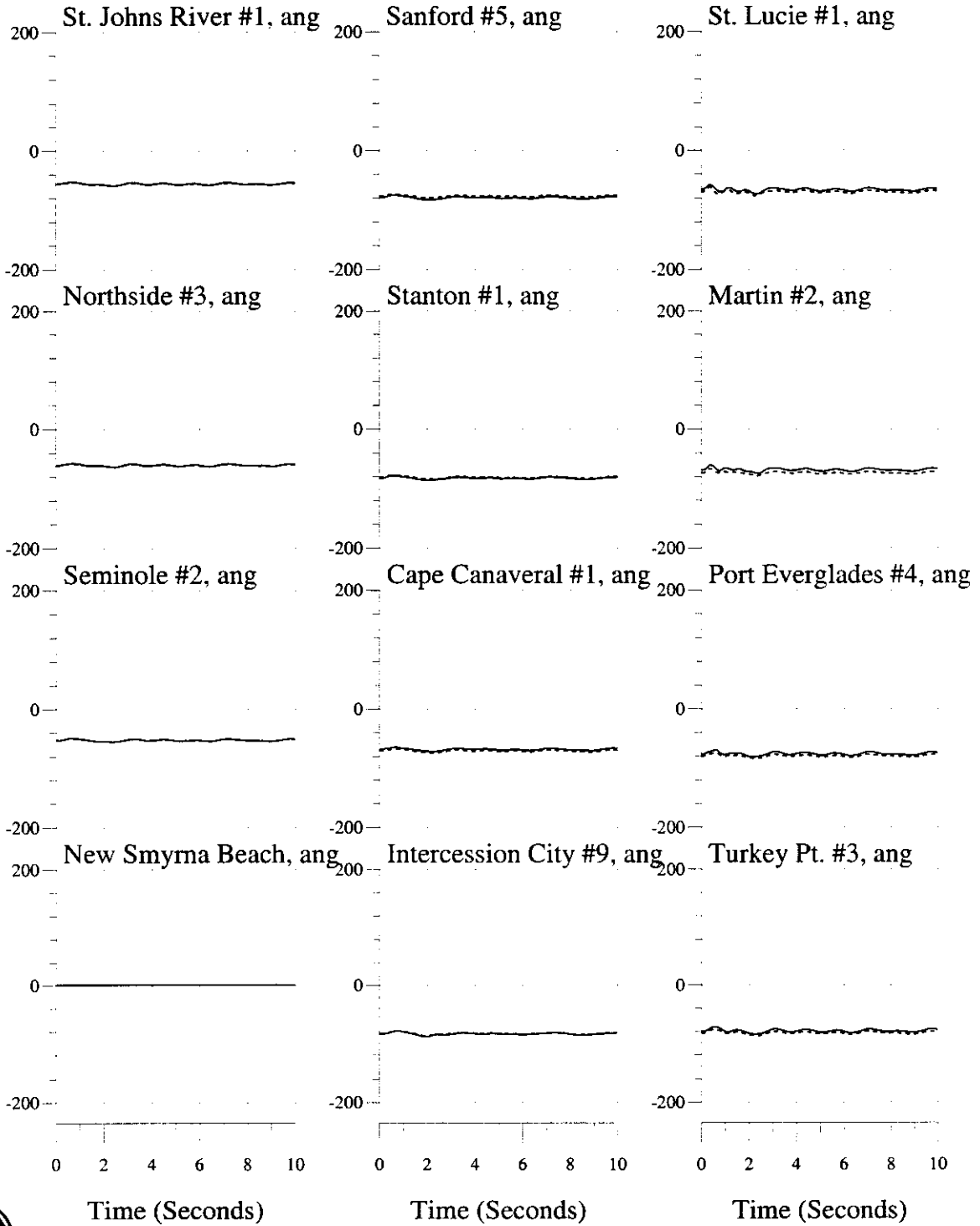
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



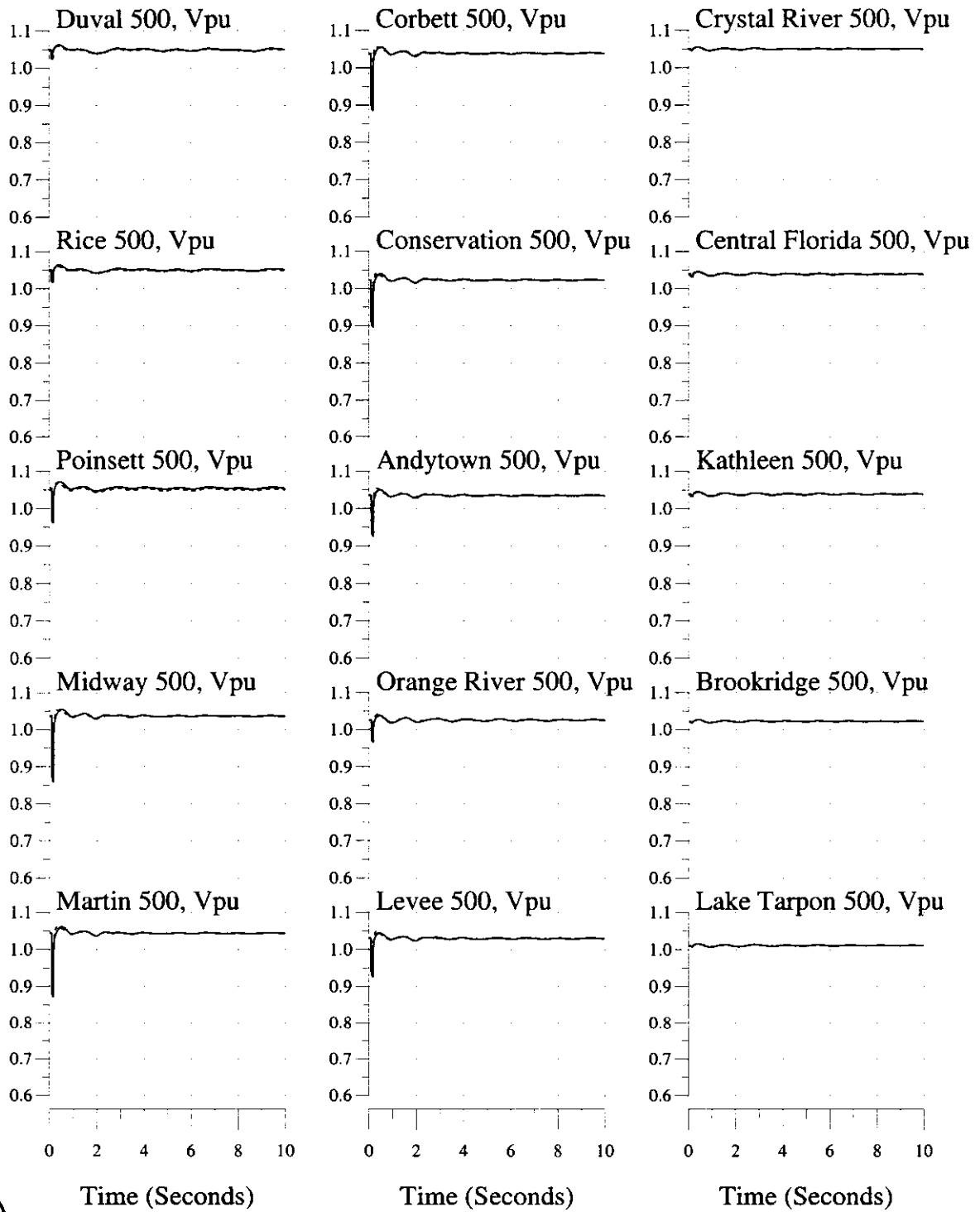
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



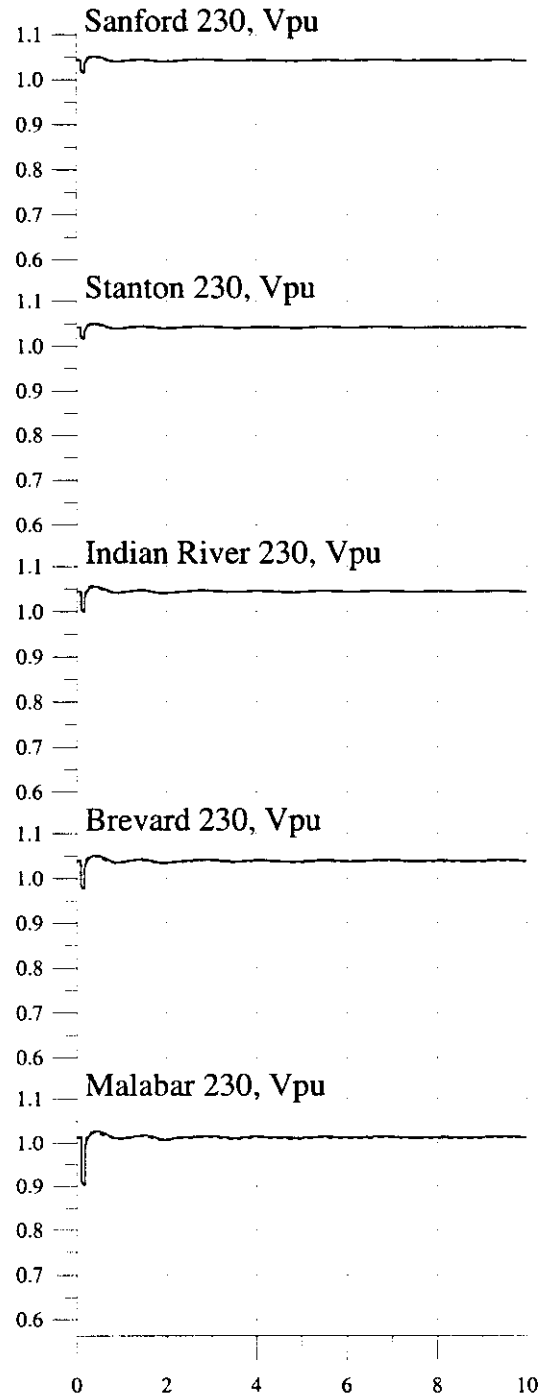
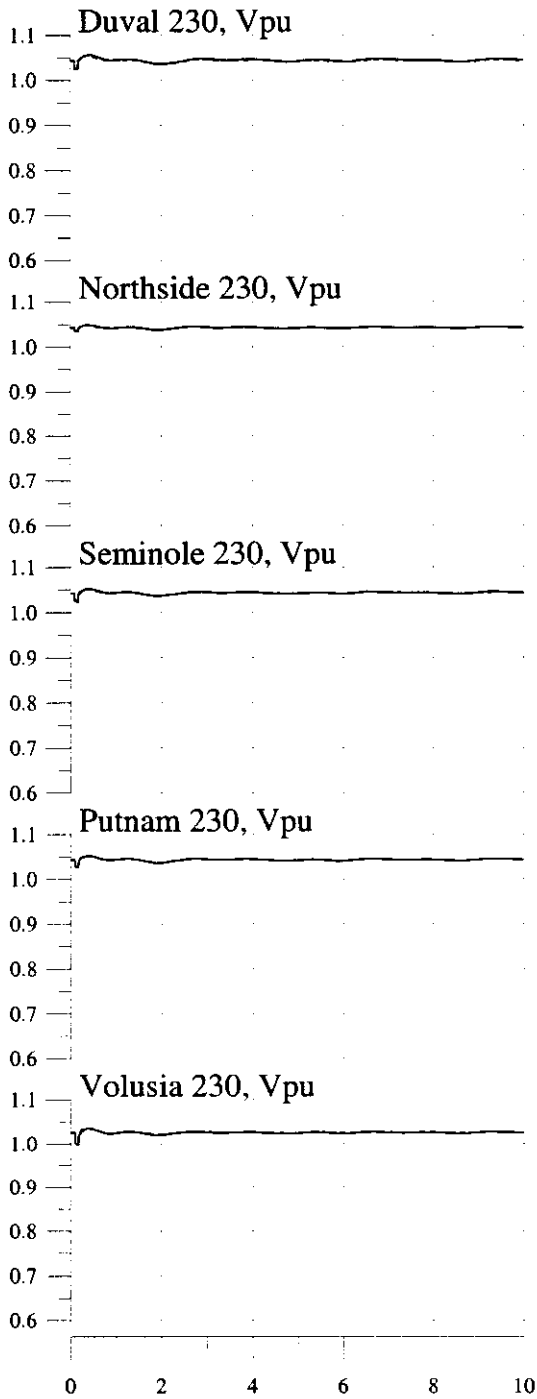
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



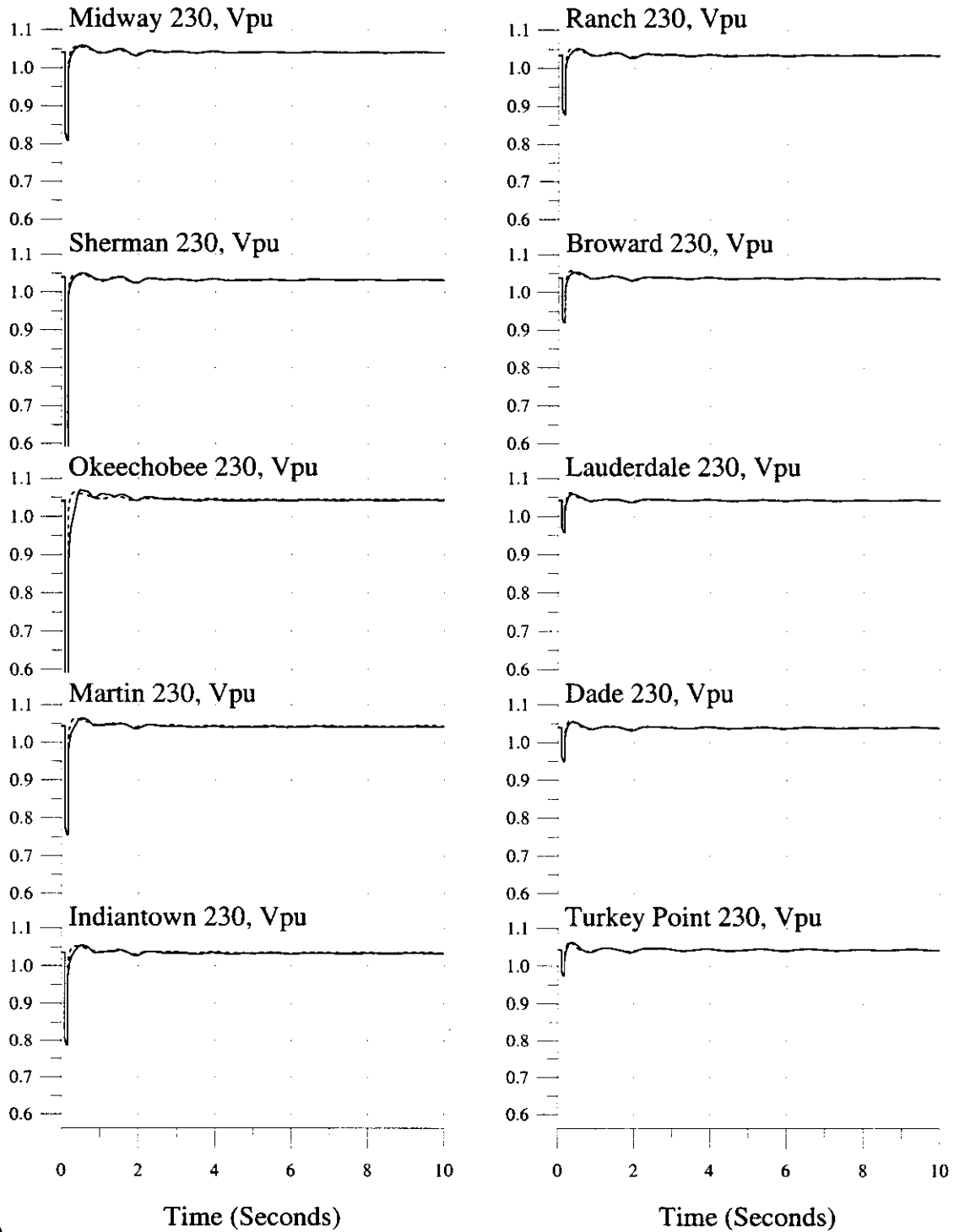
Time (Seconds)

Time (Seconds)



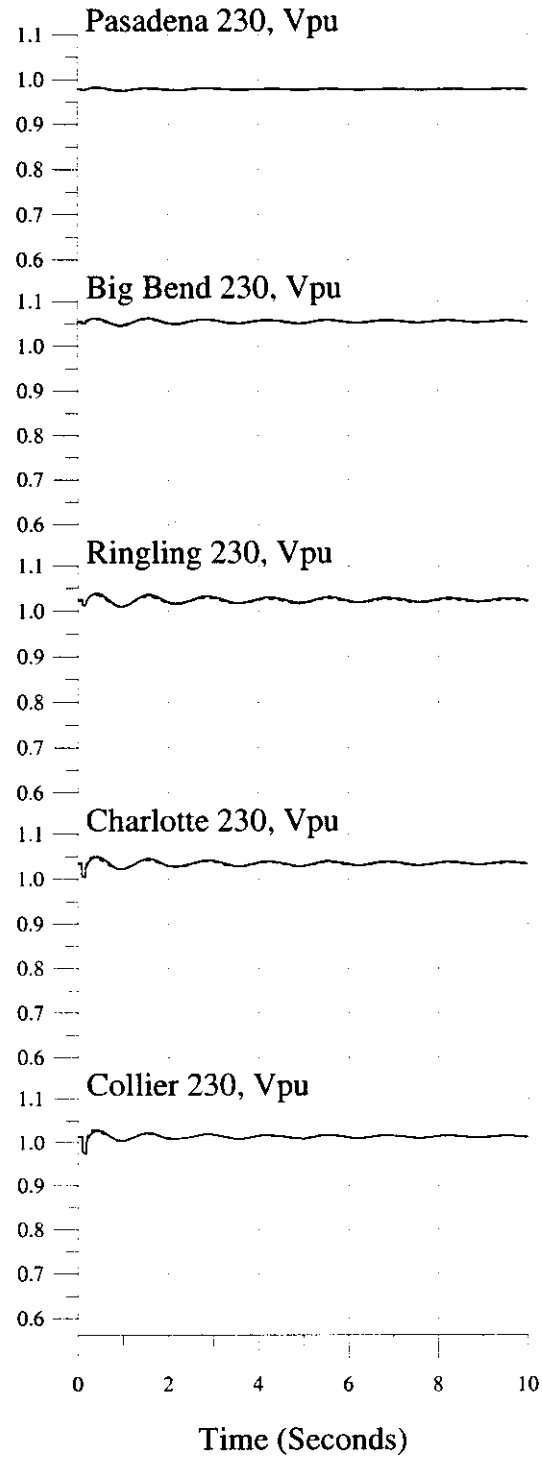
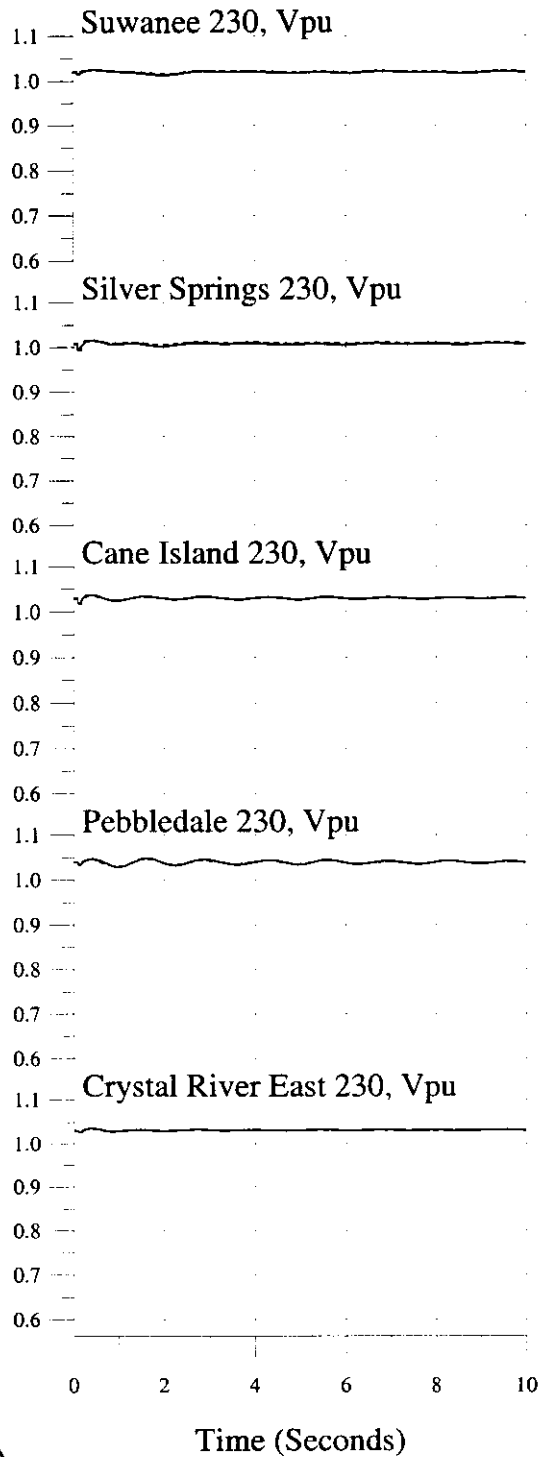
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



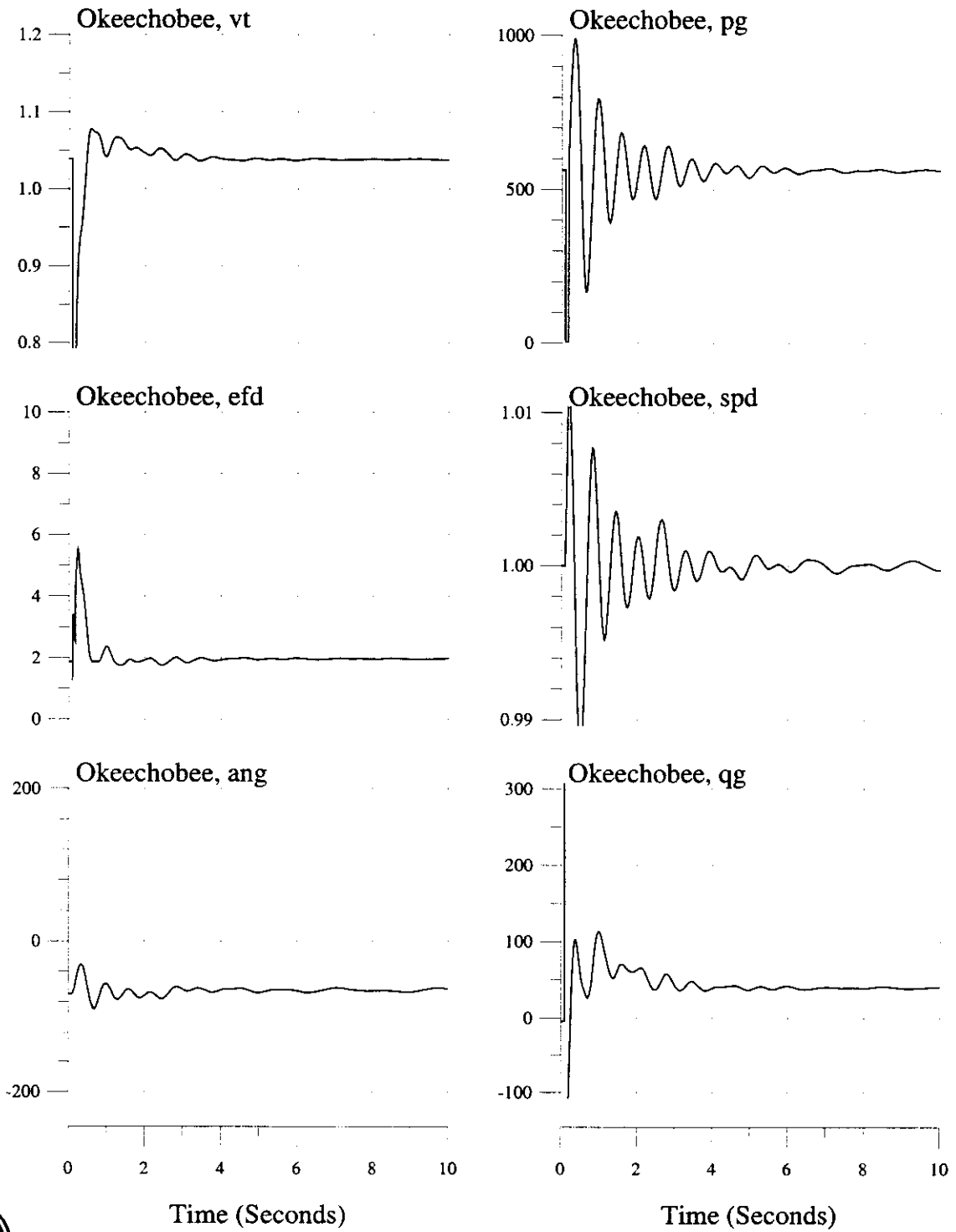
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

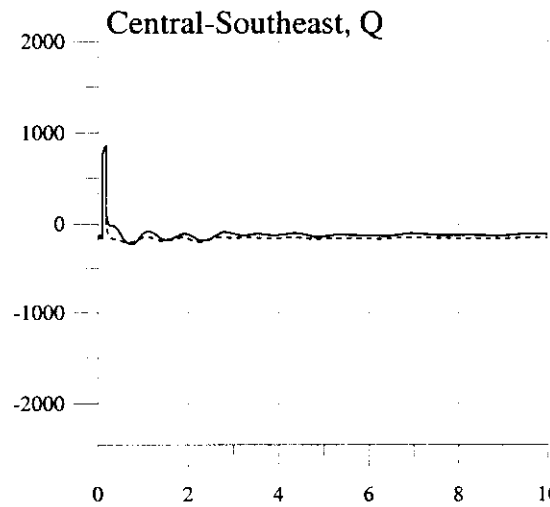
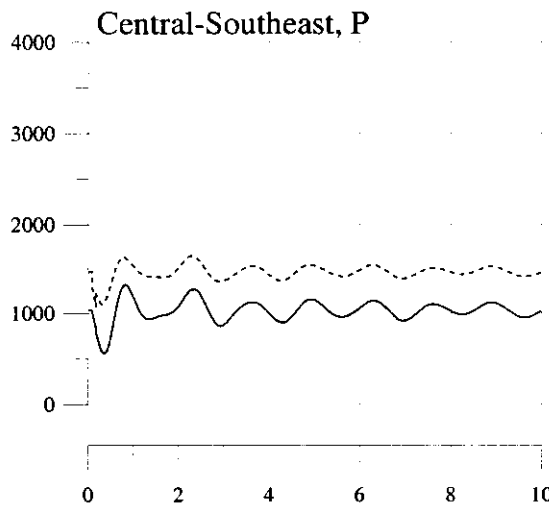
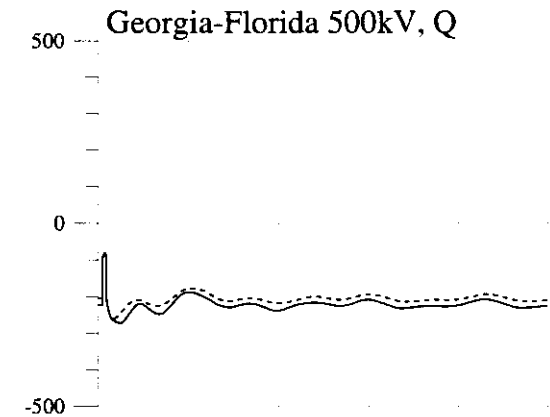
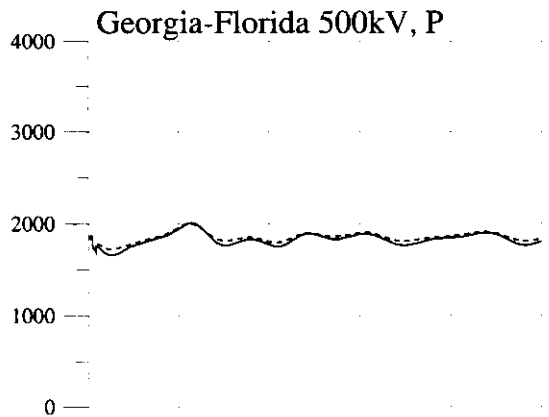
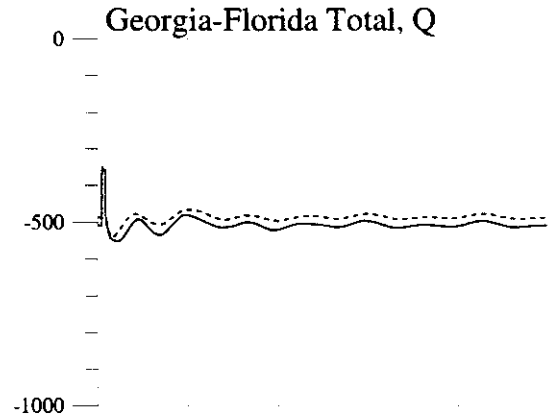
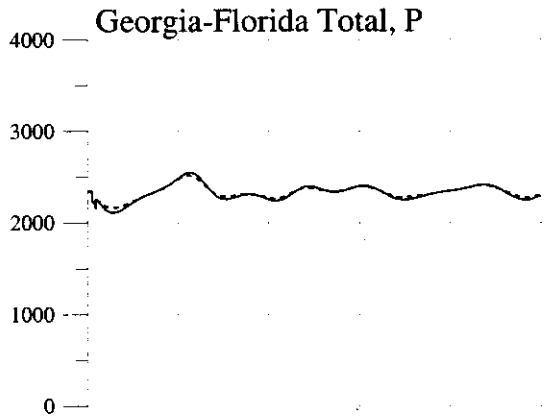
Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without





3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



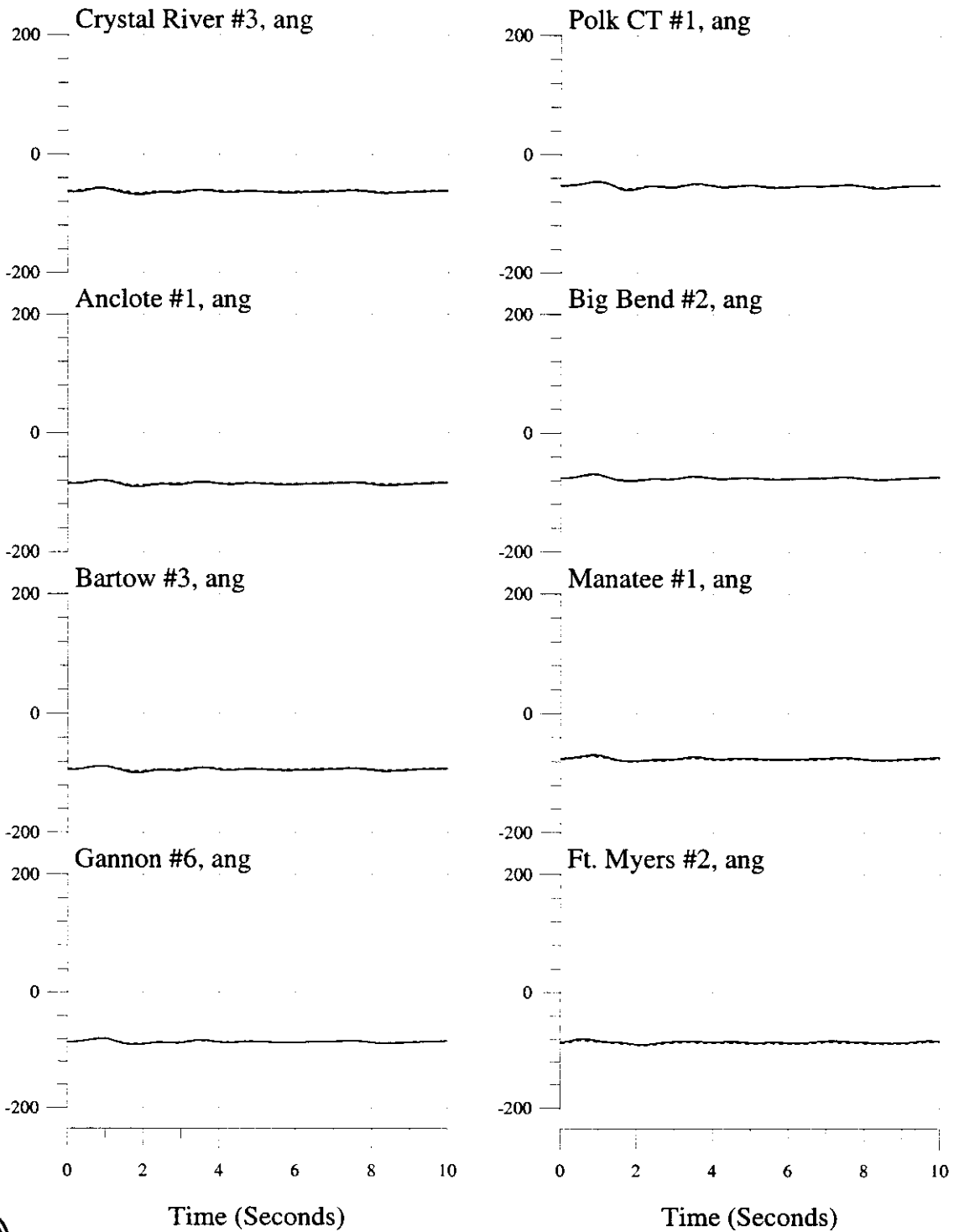
Time (Seconds)

Time (Seconds)



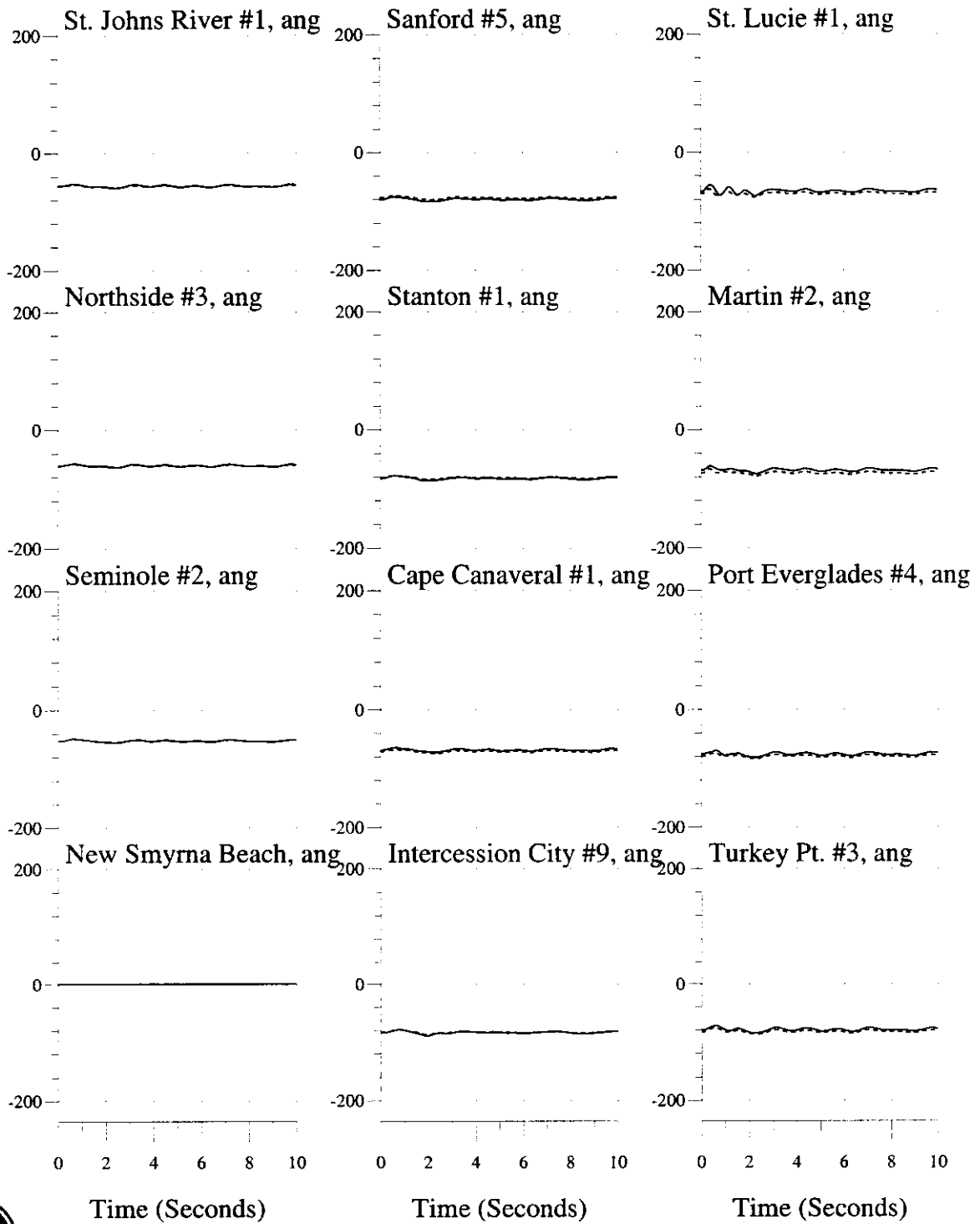
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



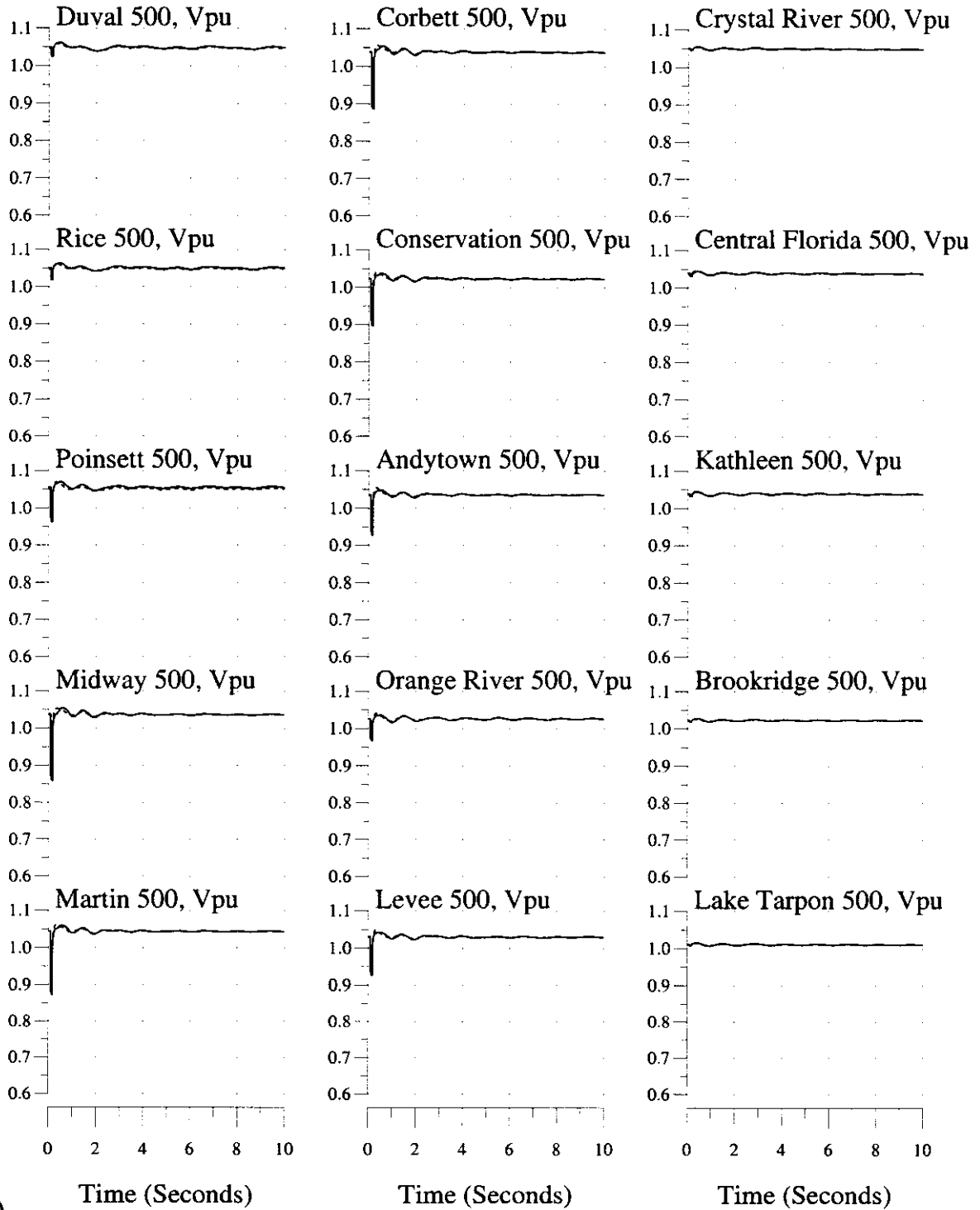
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



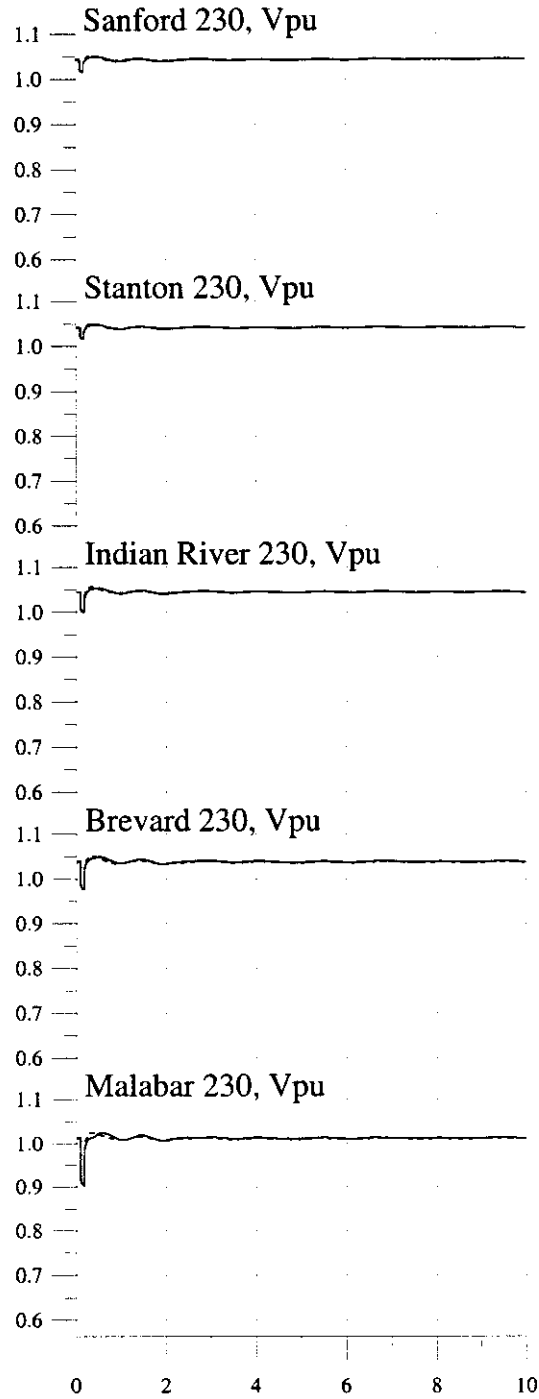
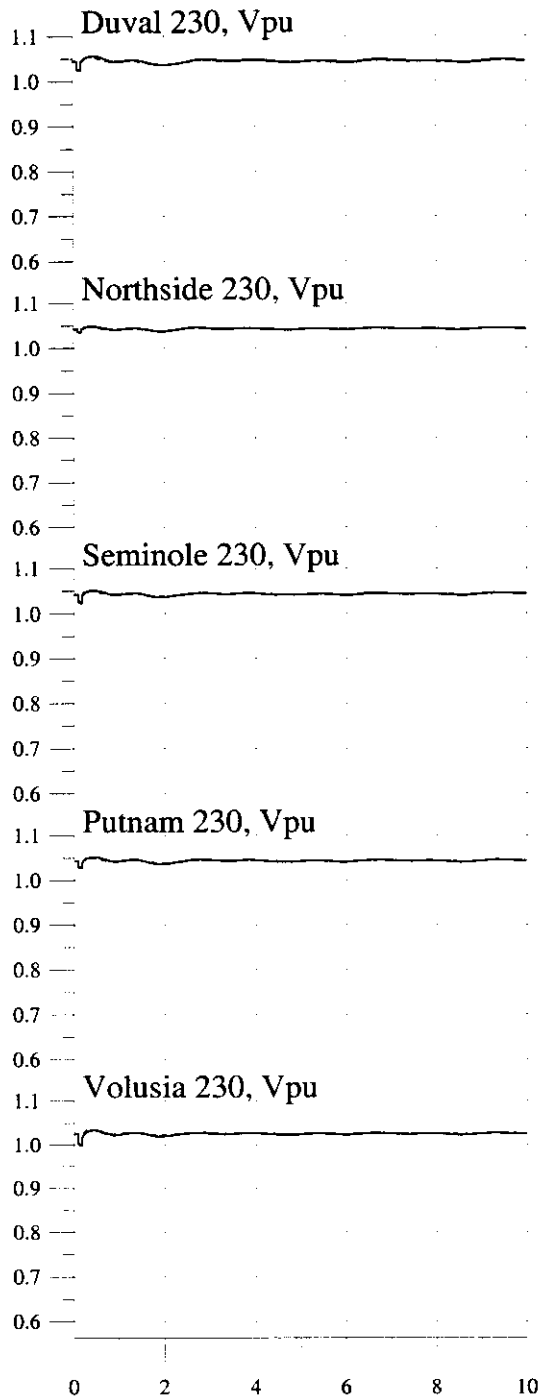
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



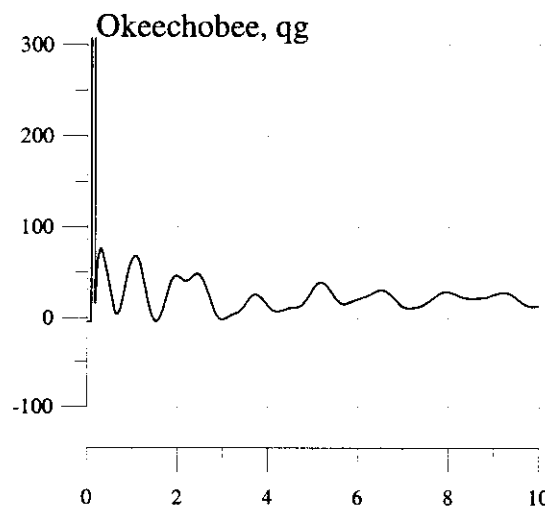
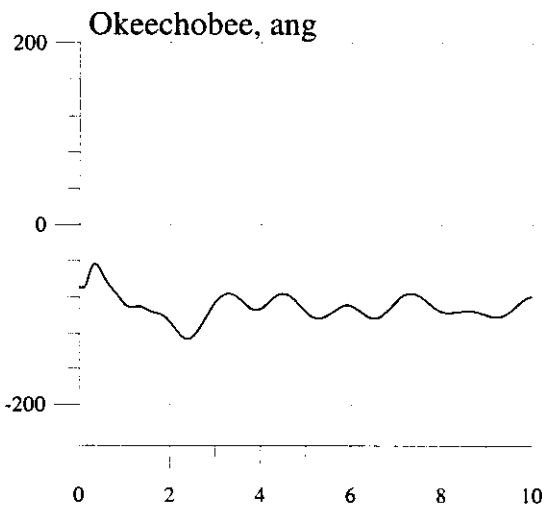
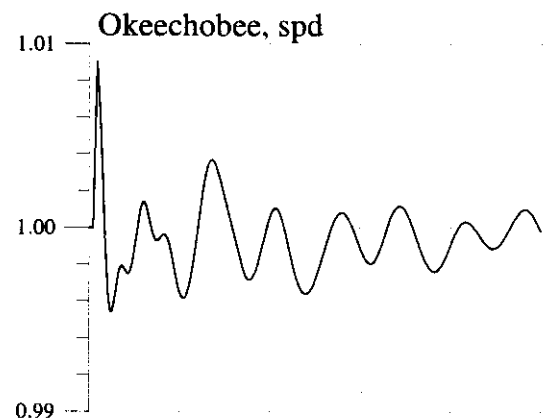
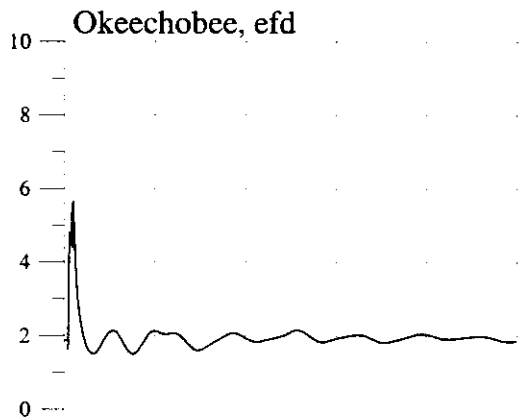
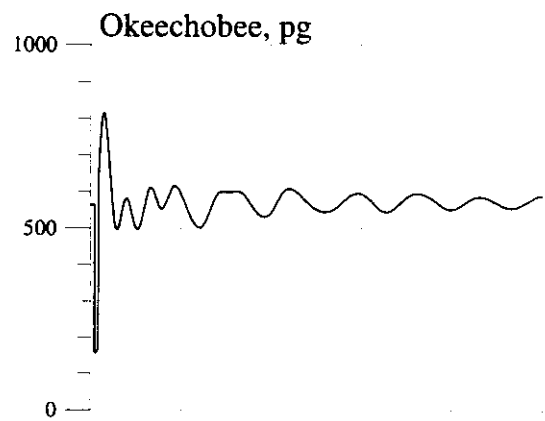
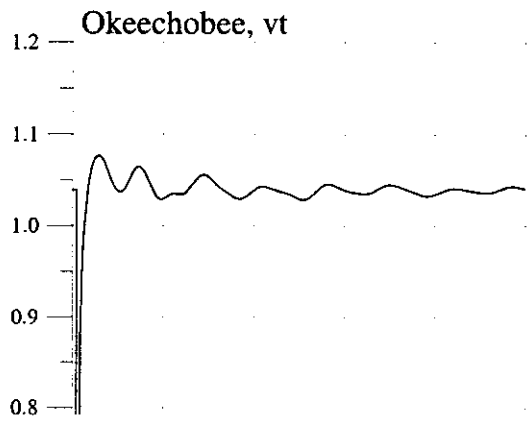
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



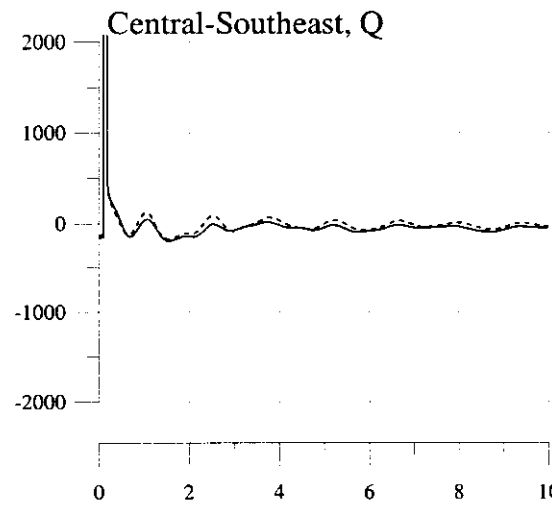
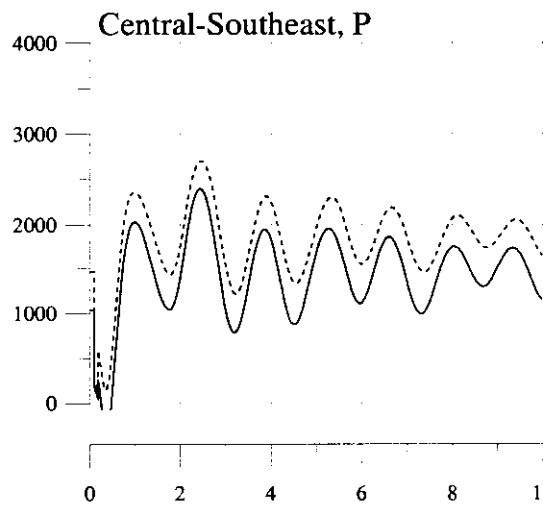
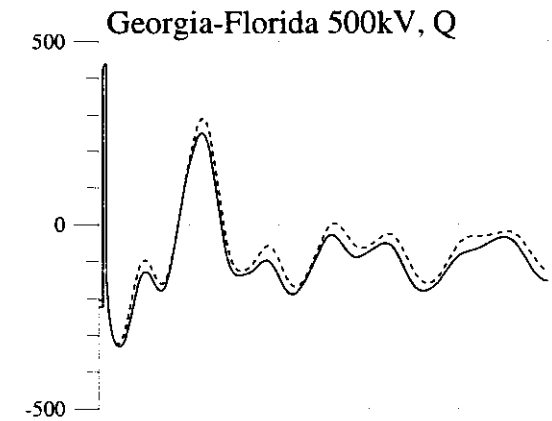
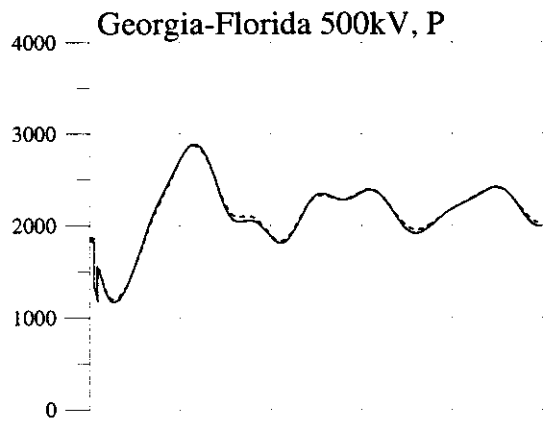
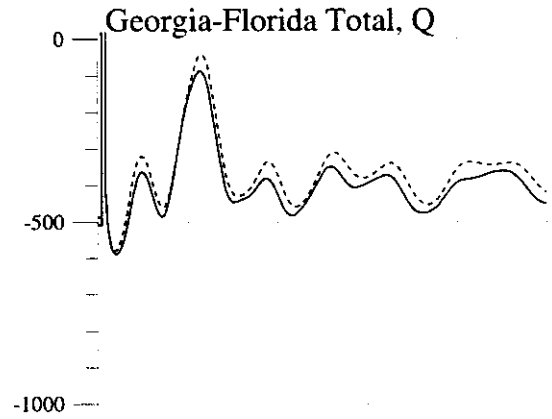
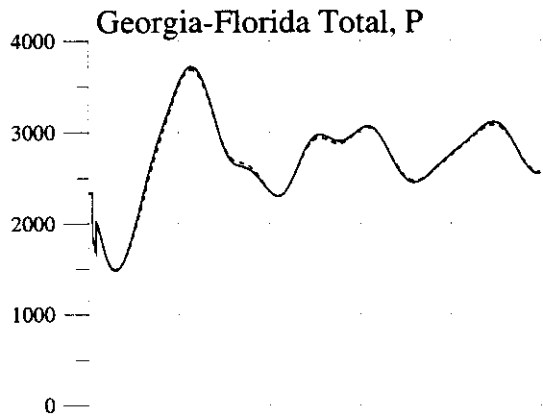
Time (Seconds)

Time (Seconds)



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



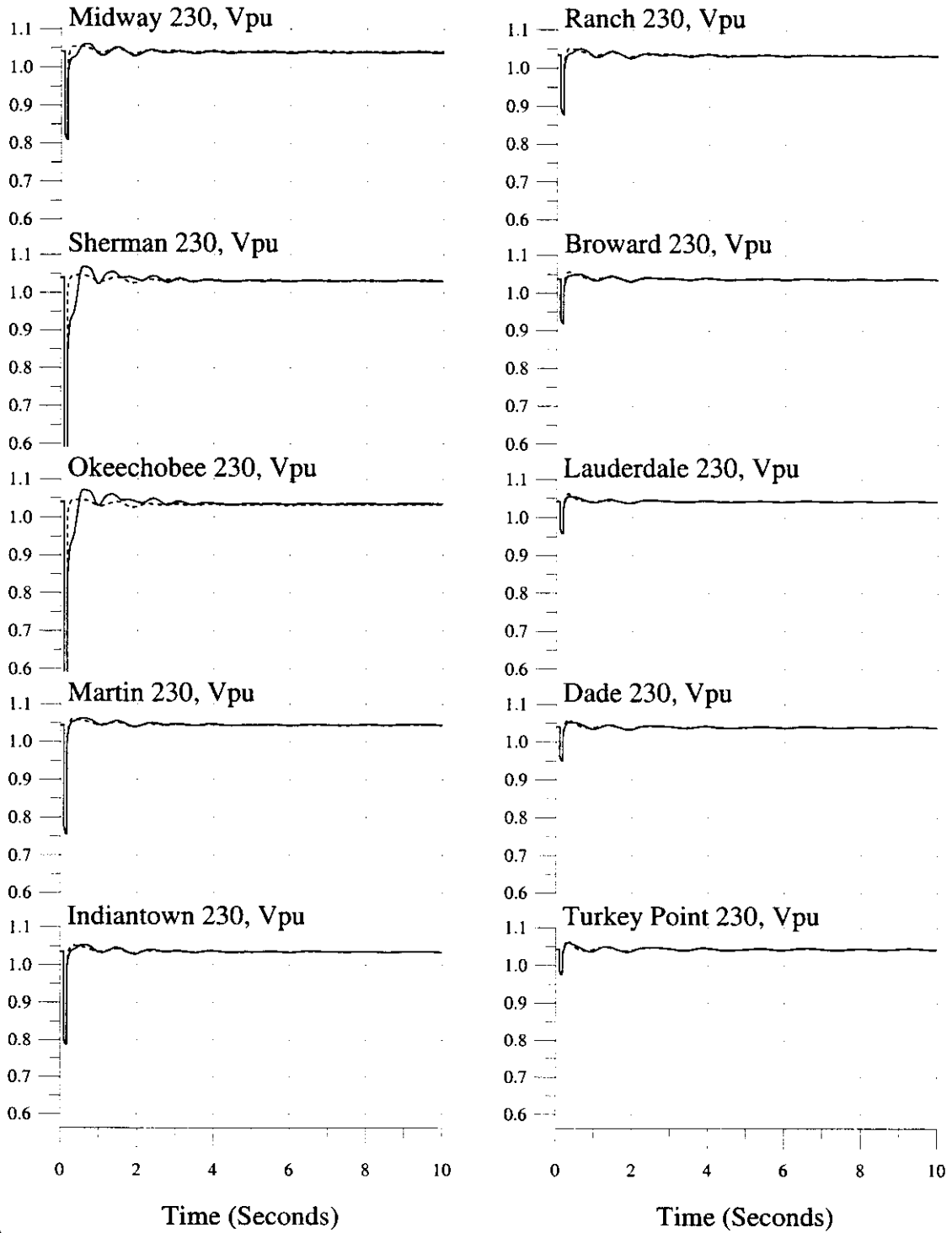
Time (Seconds)

Time (Seconds)



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
2003 Winter System

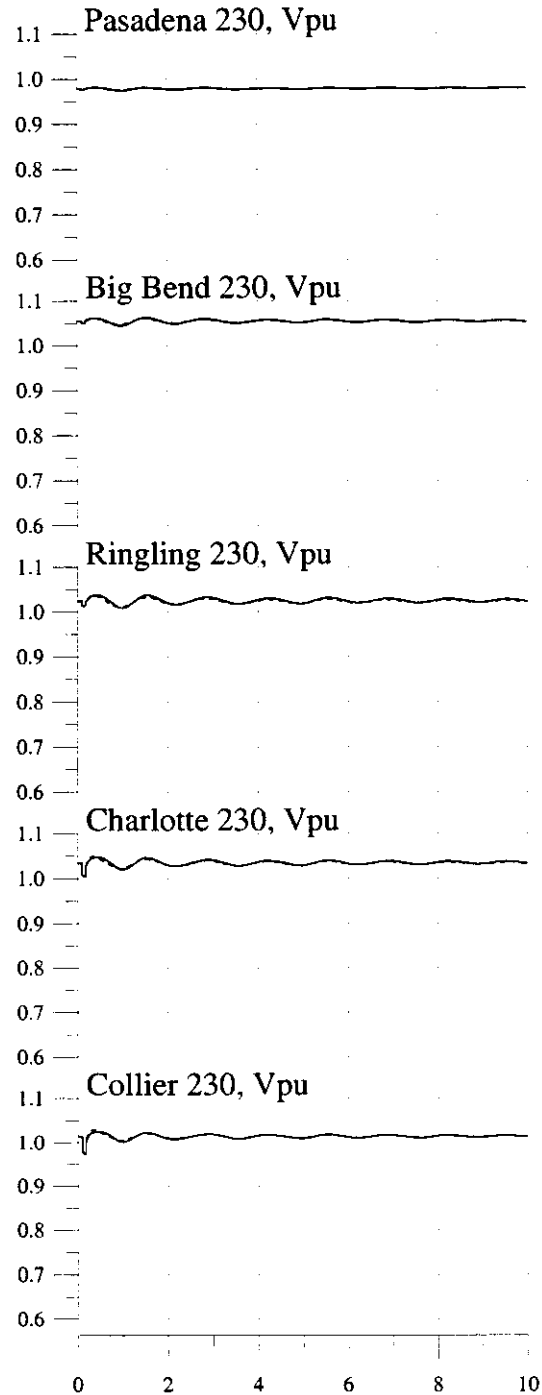
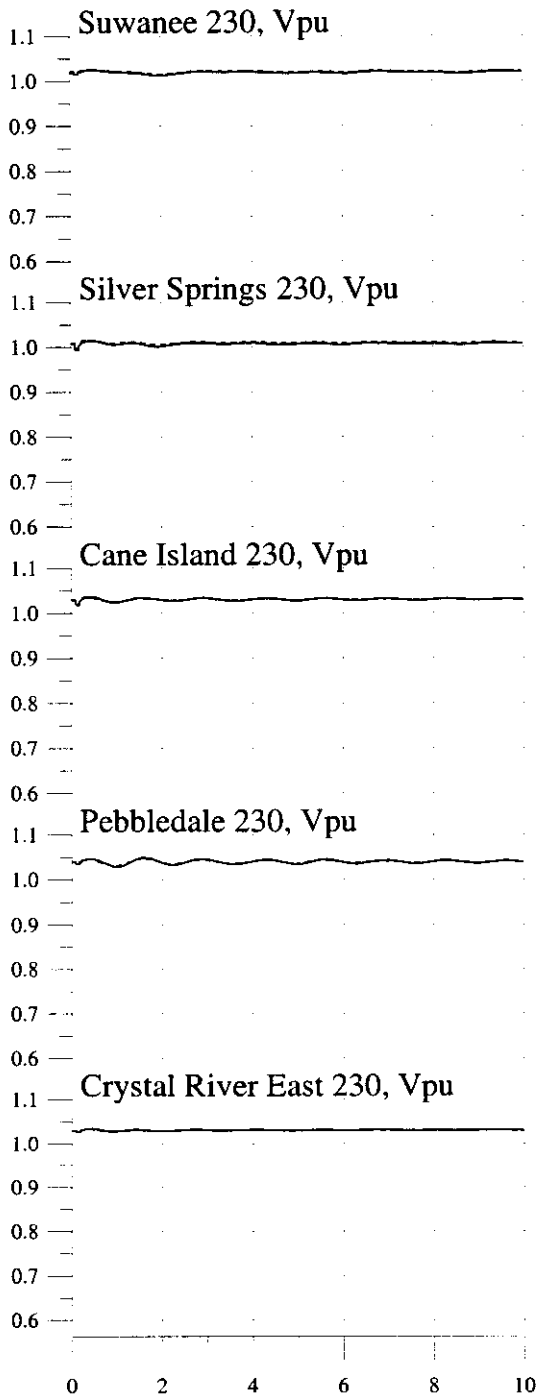
Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without





3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without

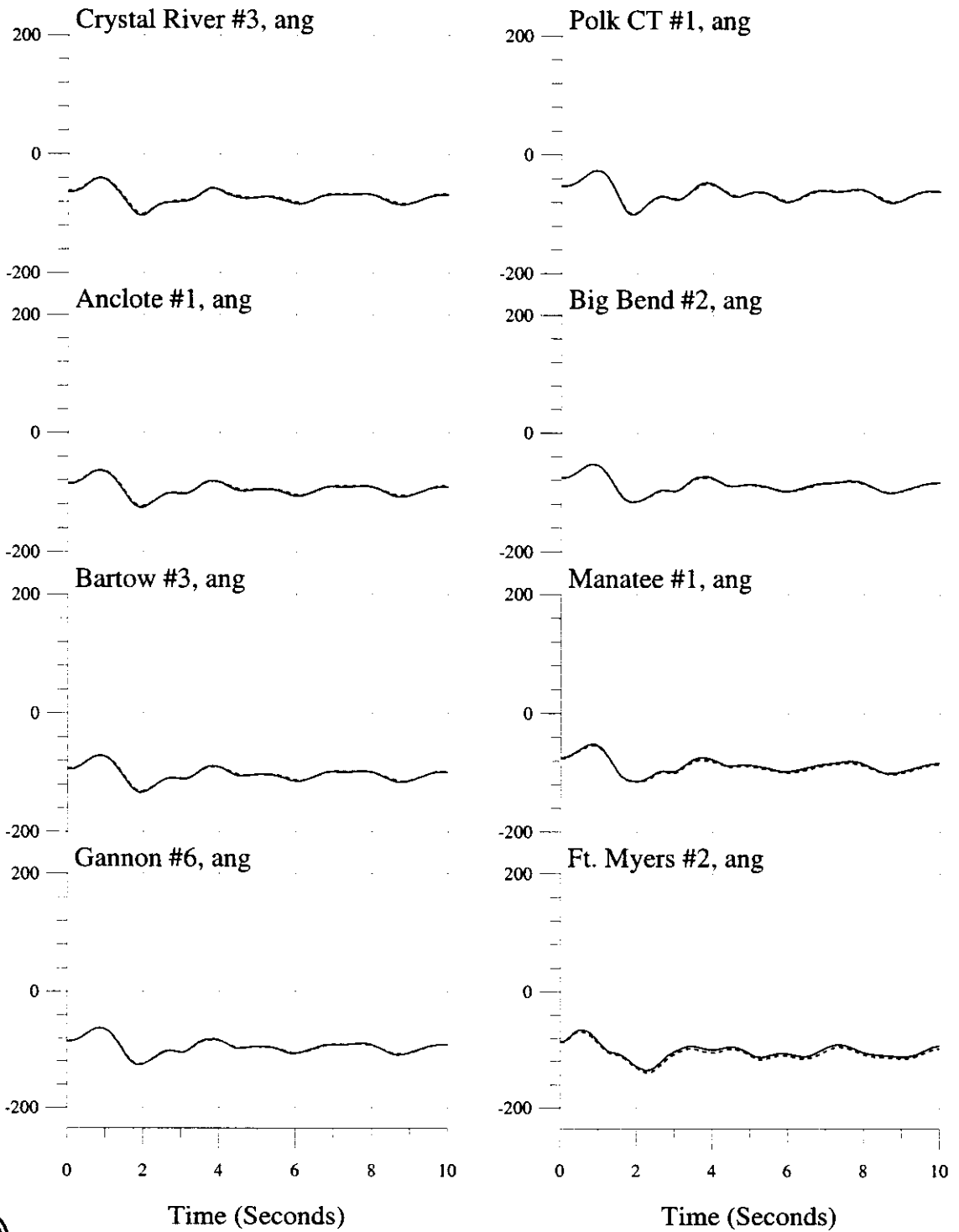


Time (Seconds)

Time (Seconds)

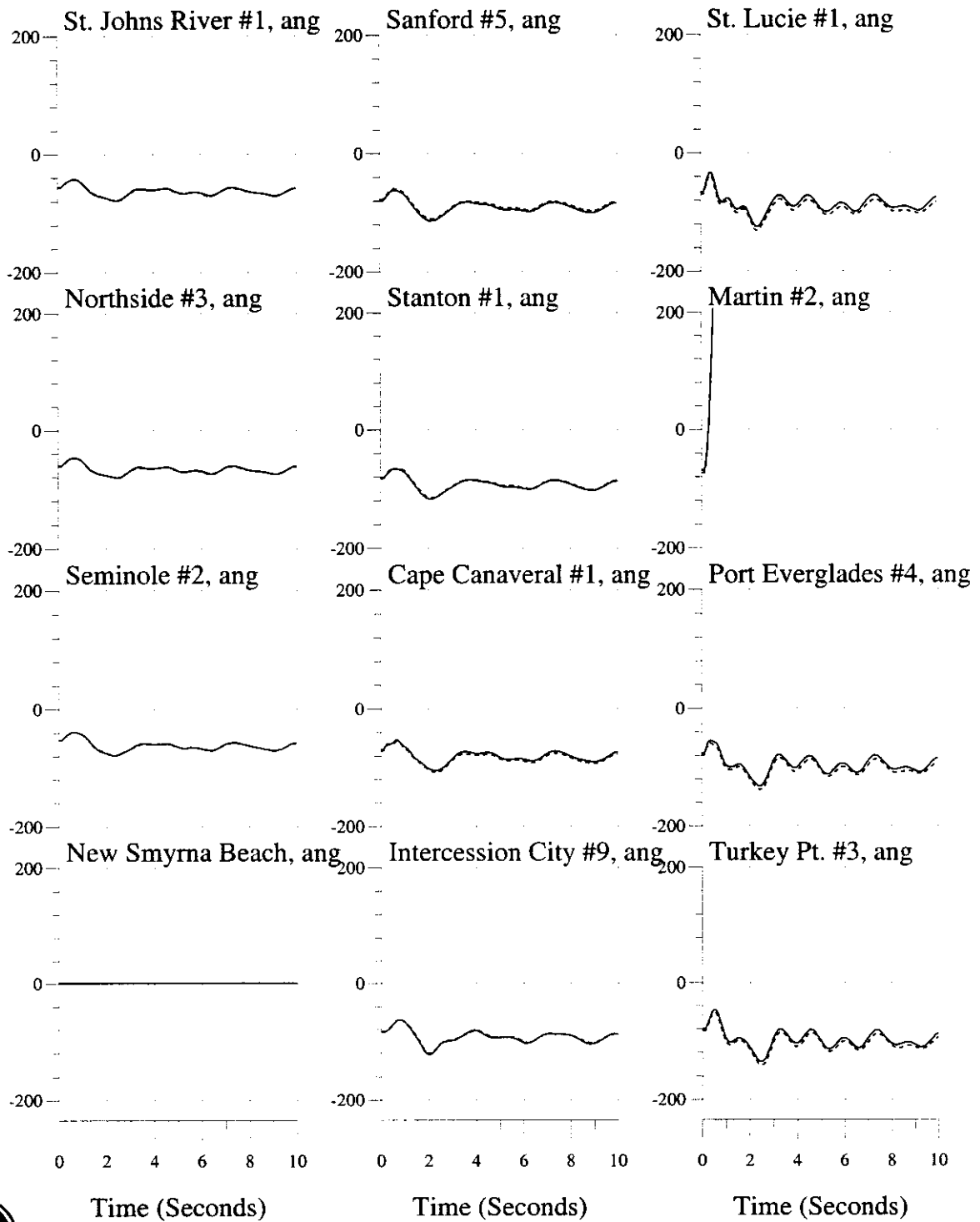
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



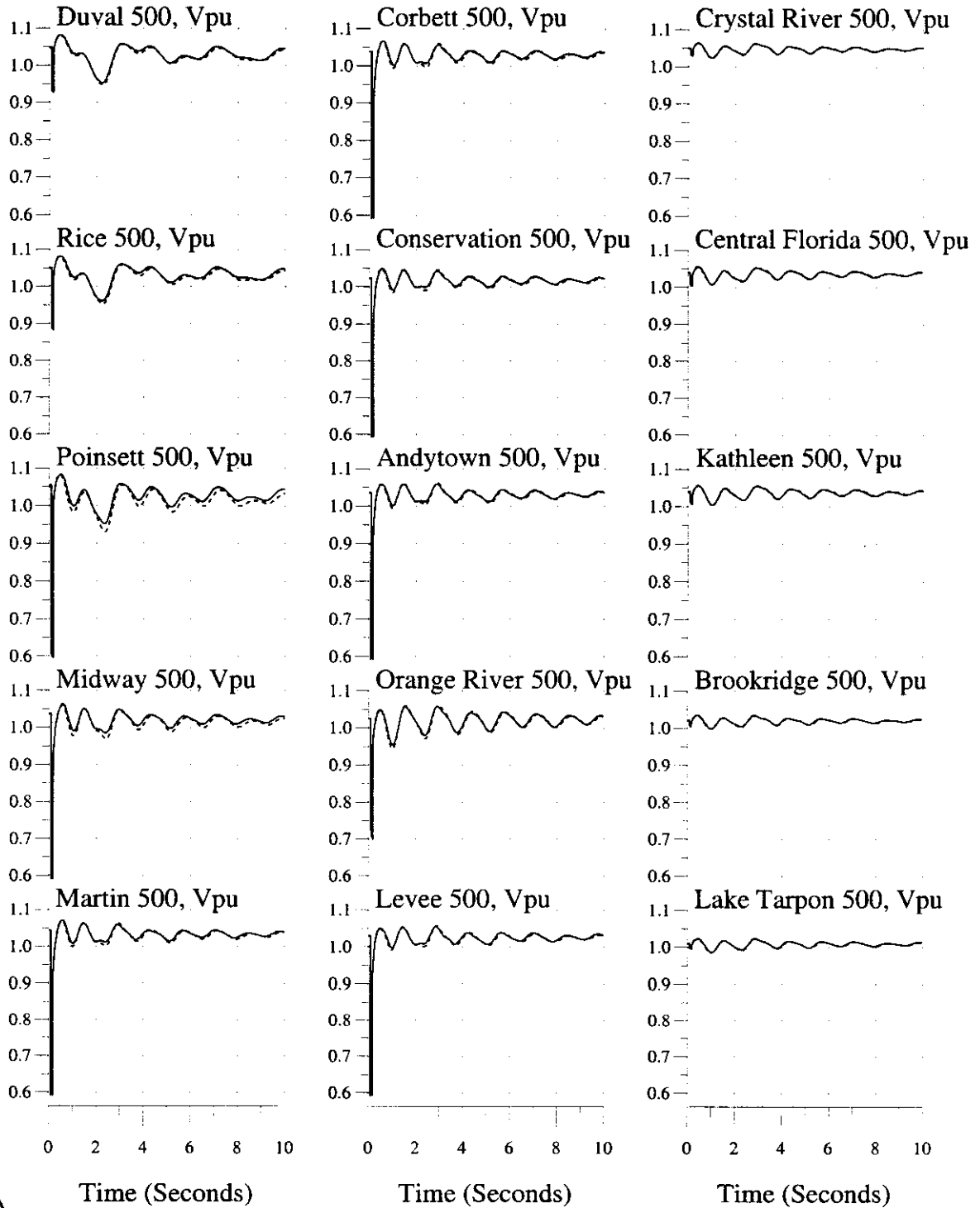
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



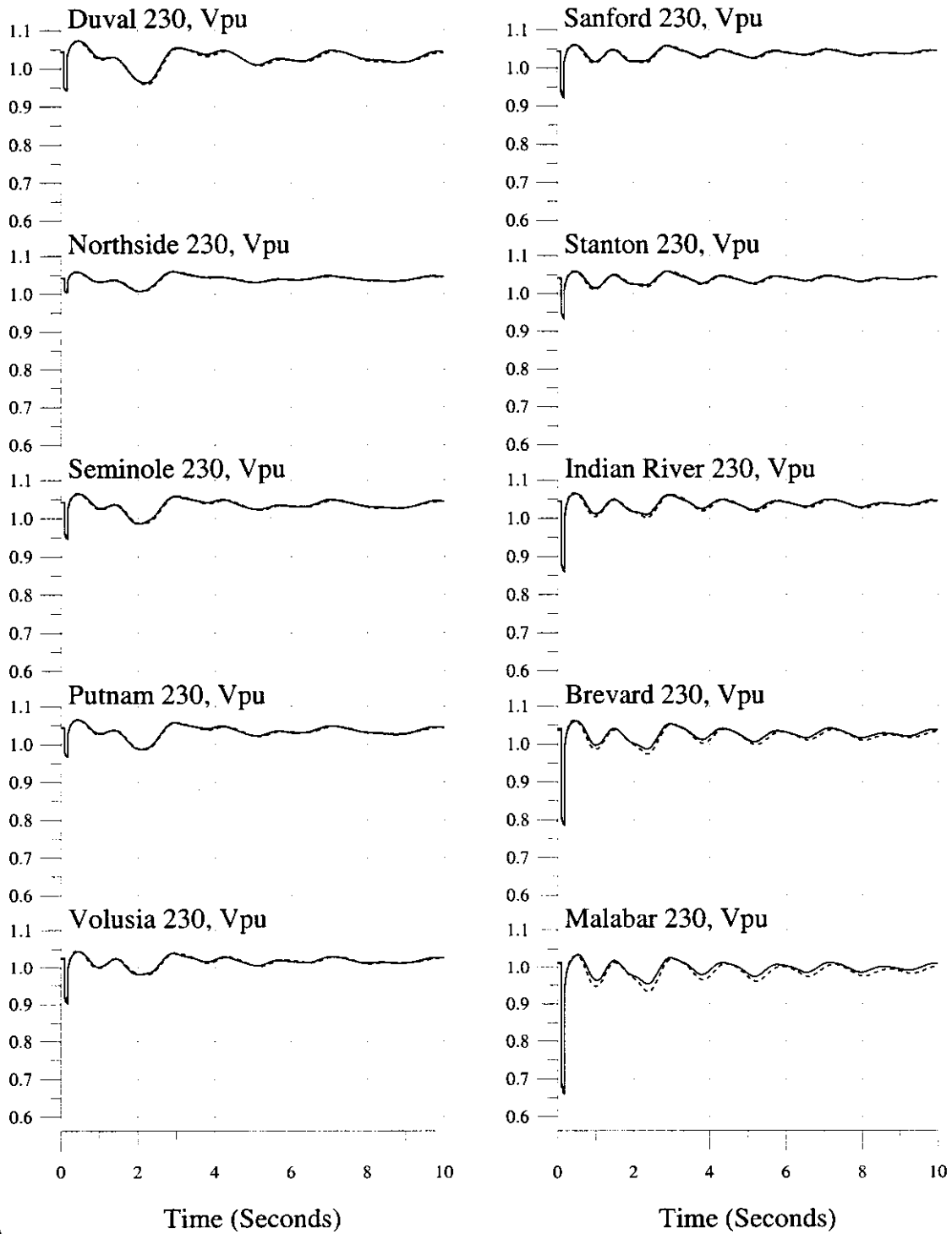
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



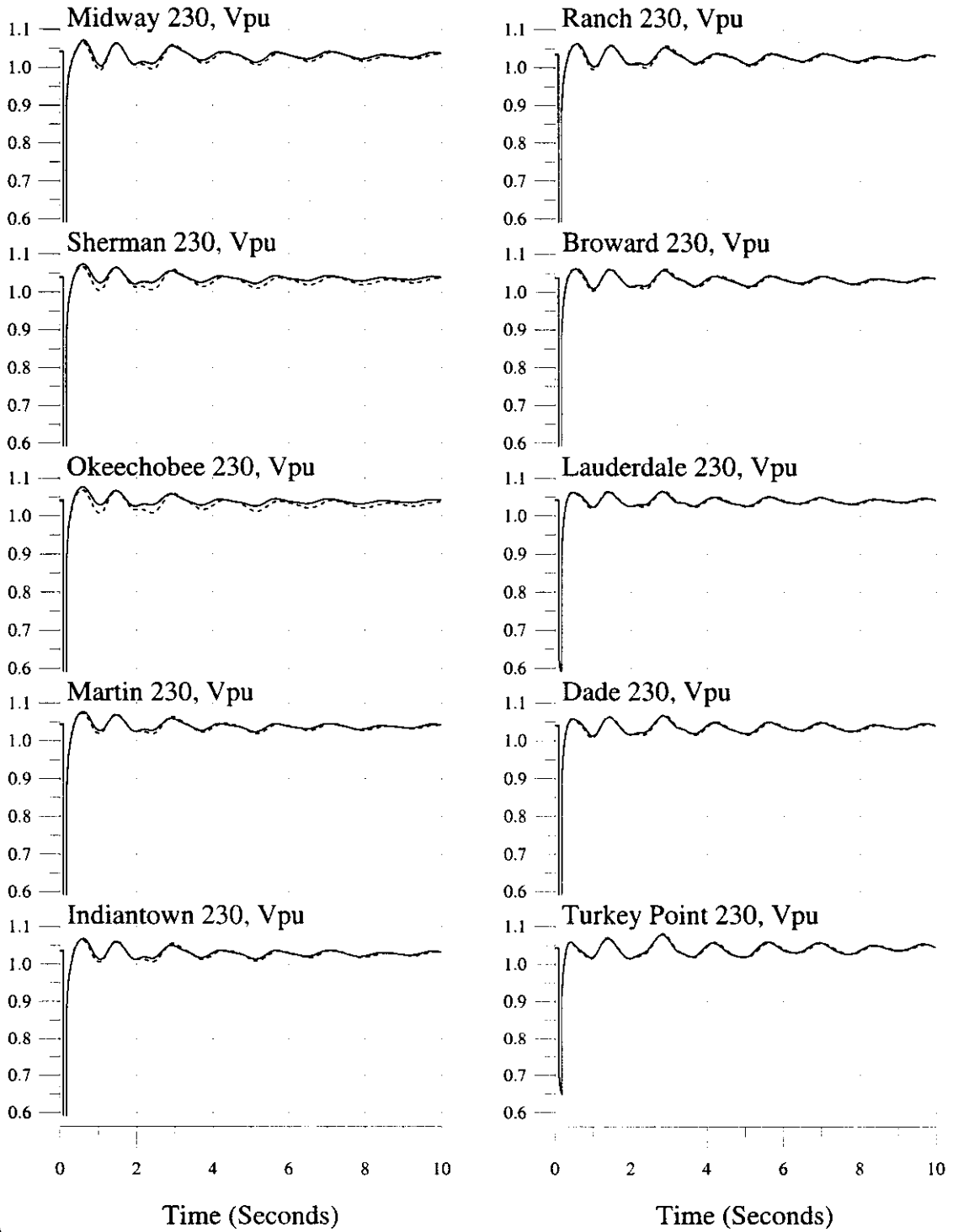
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



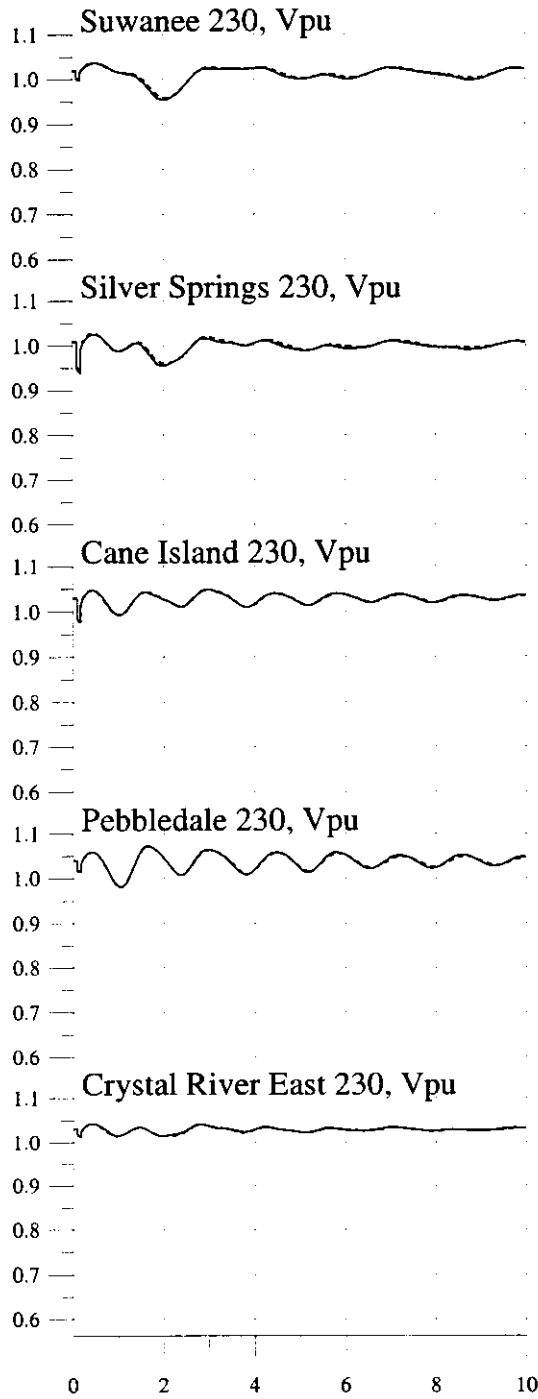
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without

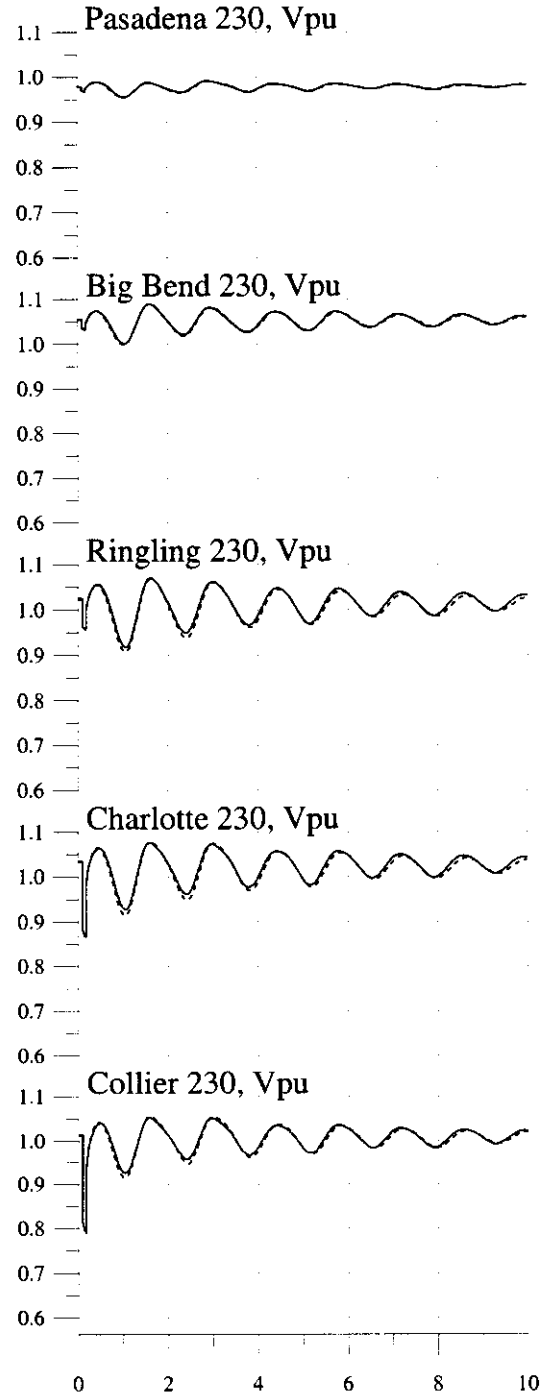


# 3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



Time (Seconds)

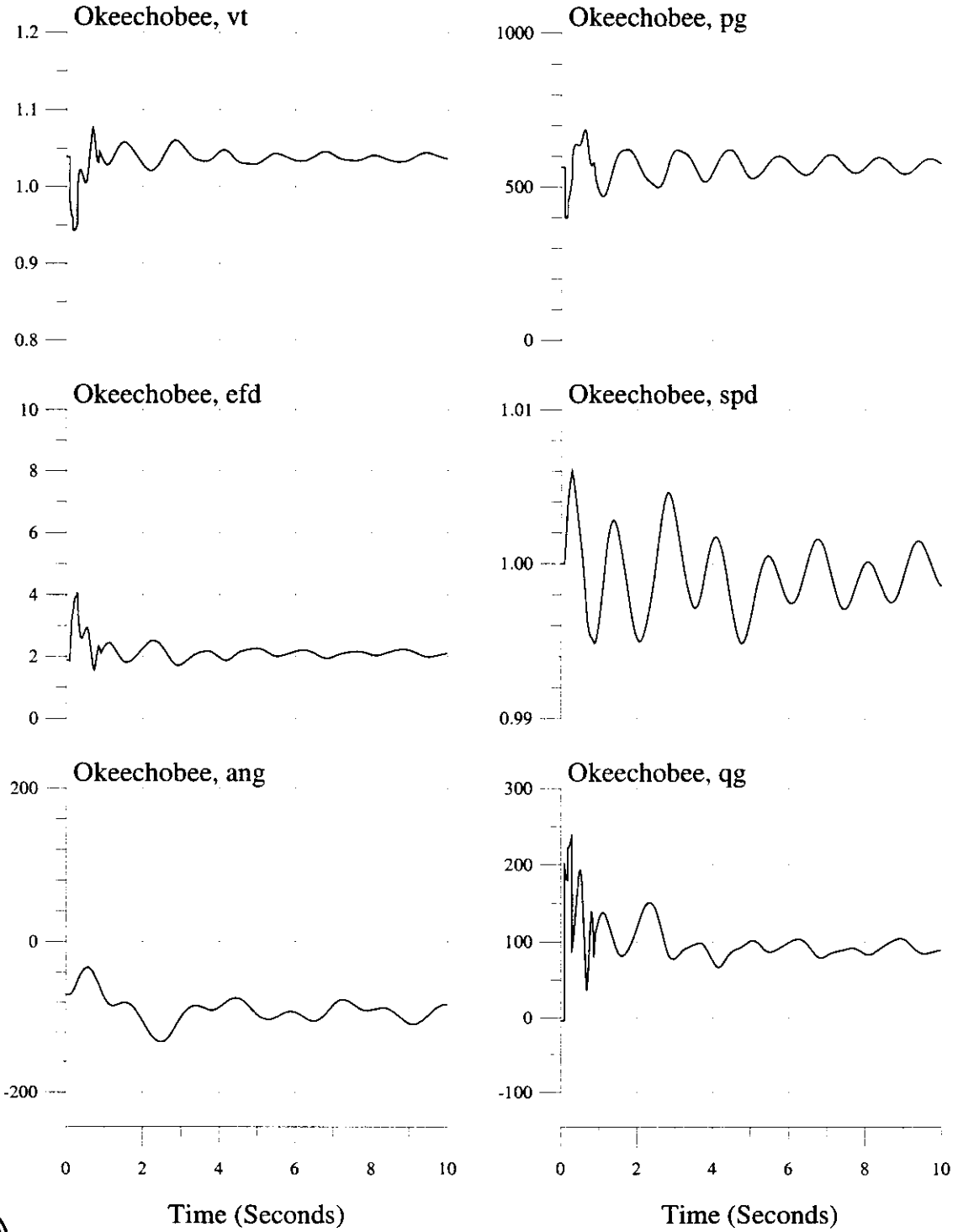


Time (Seconds)



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

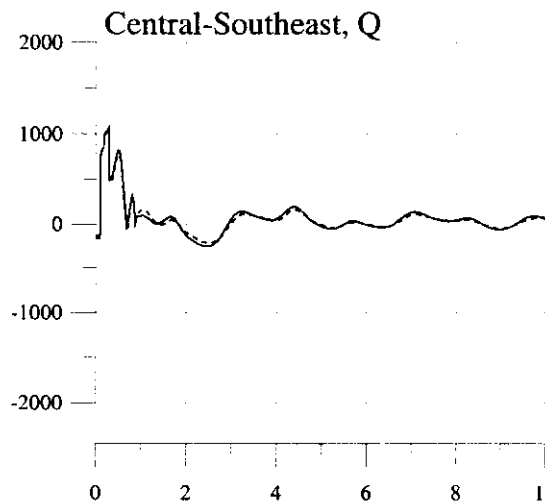
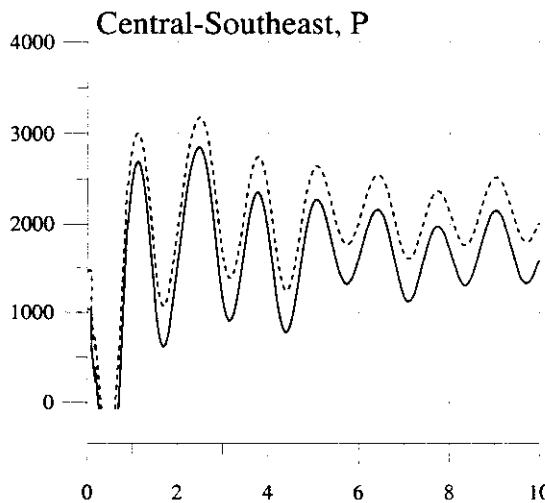
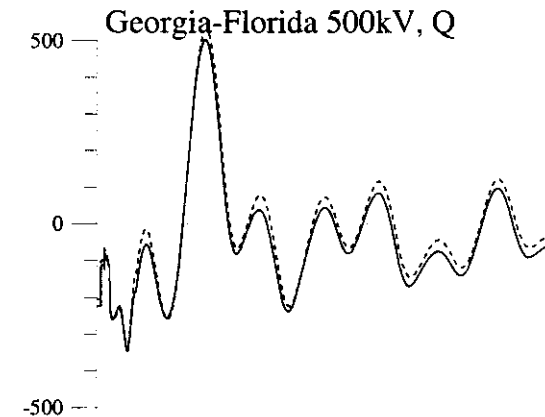
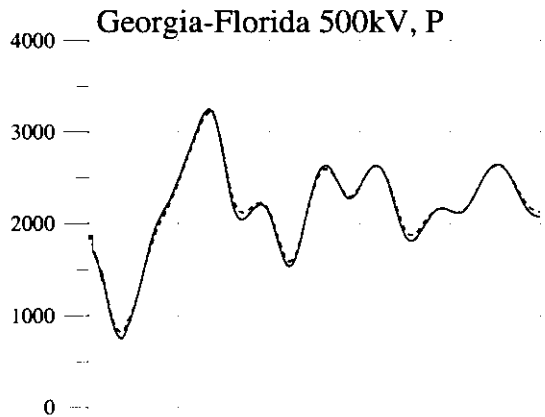
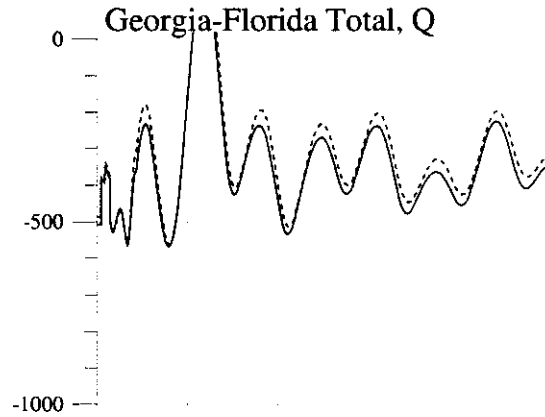
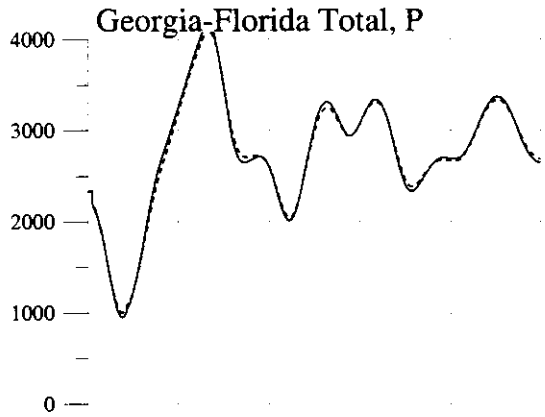
Machine & Interface Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without





3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Machine & Interface Variables: (—) With Okeechobee FPC Dispatch, (...) Without



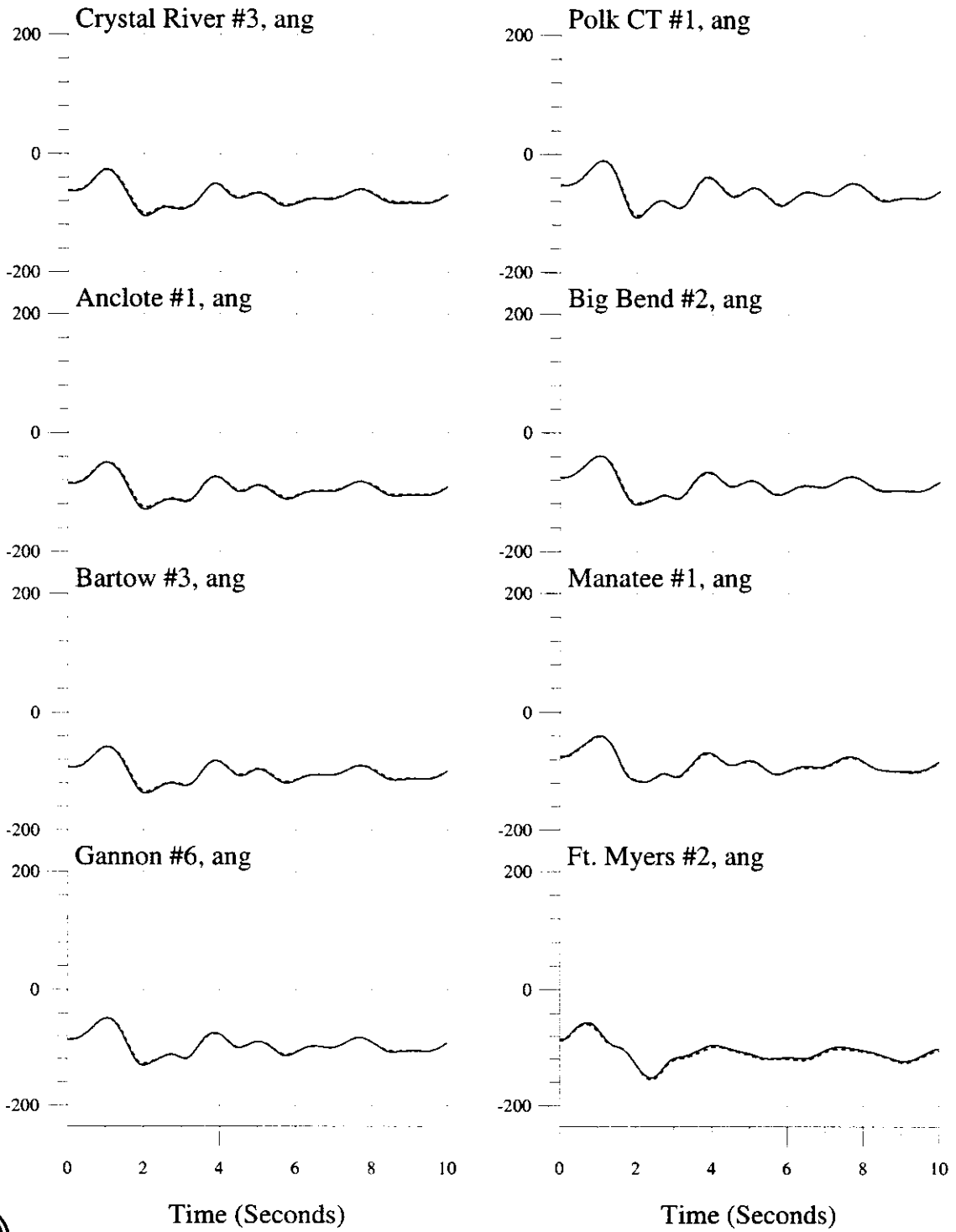
Time (Seconds)

Time (Seconds)



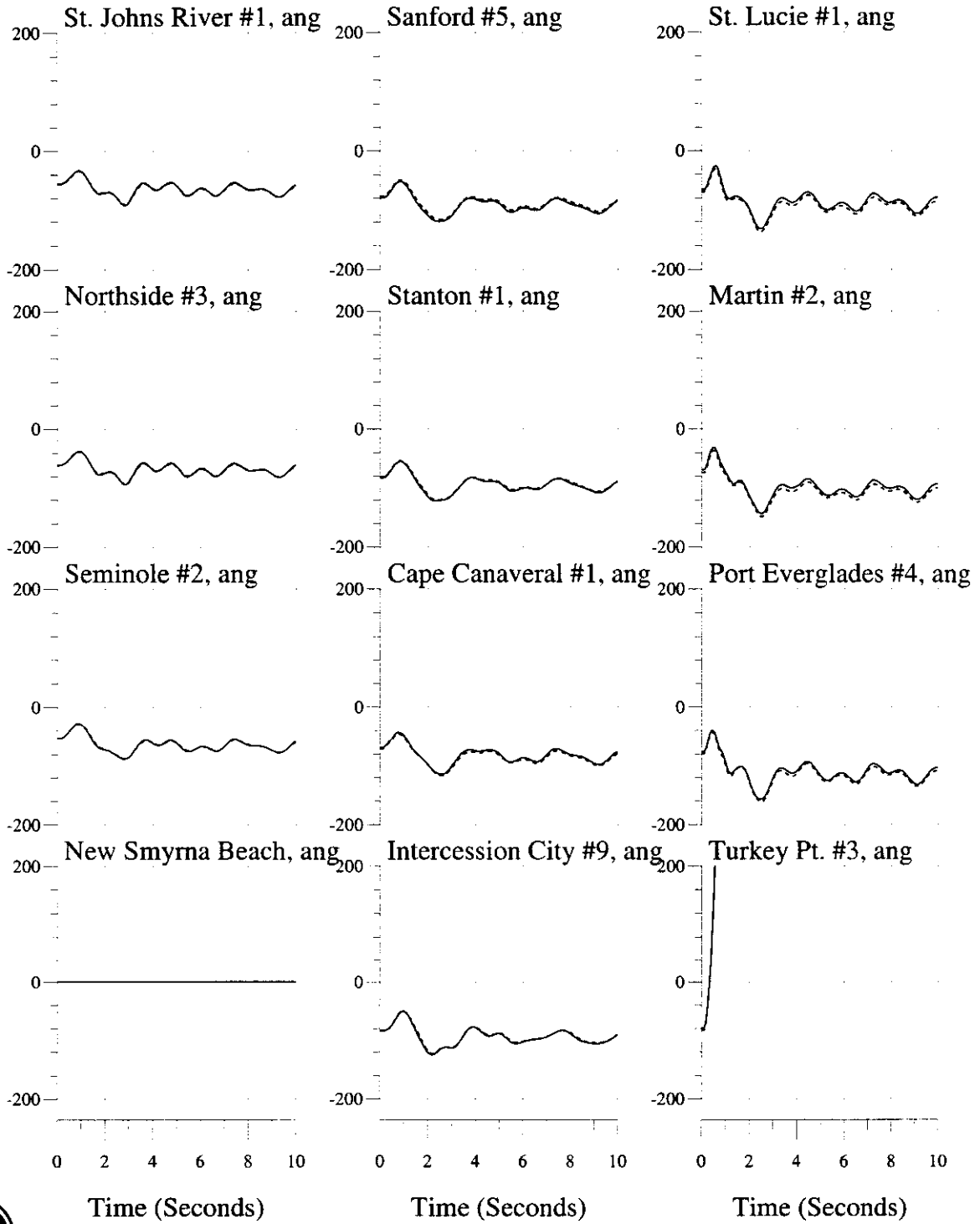
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



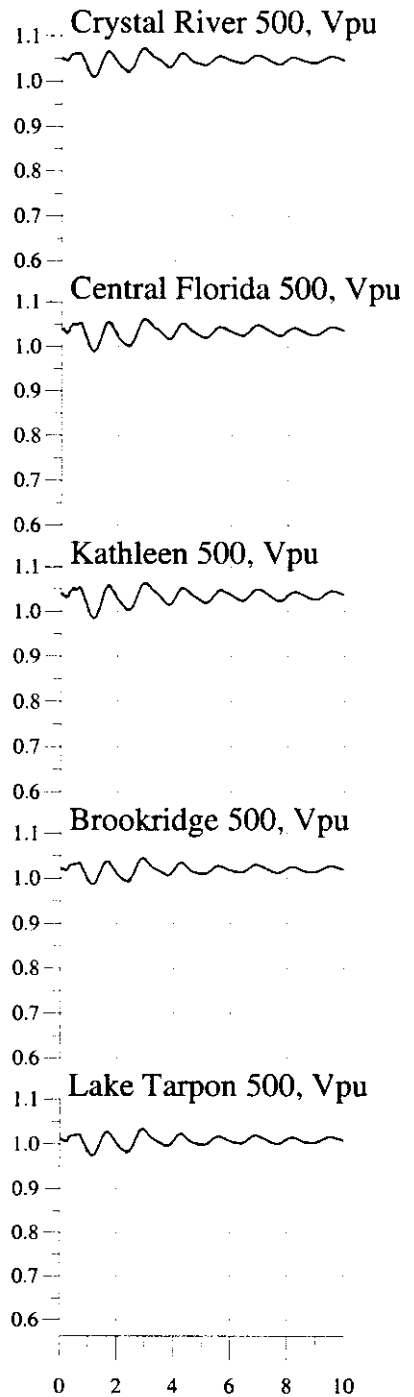
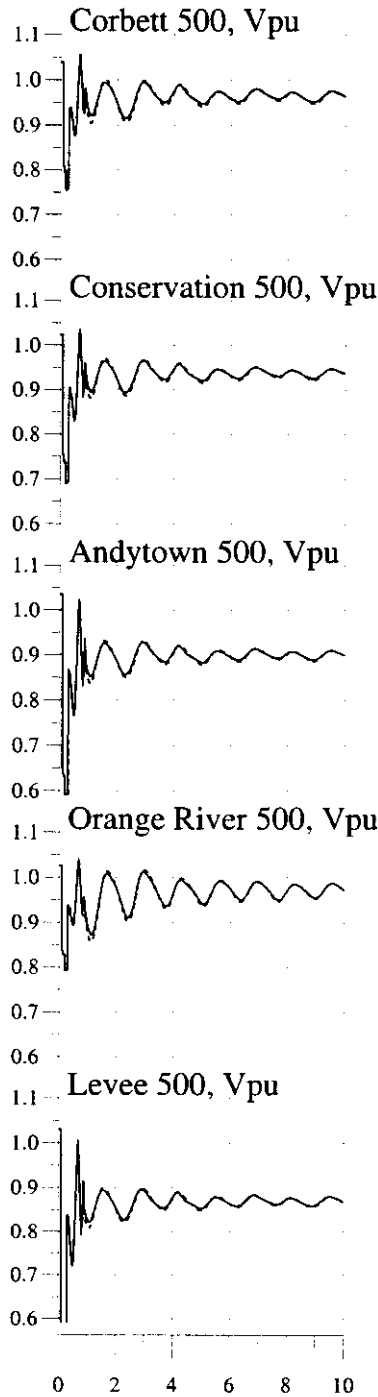
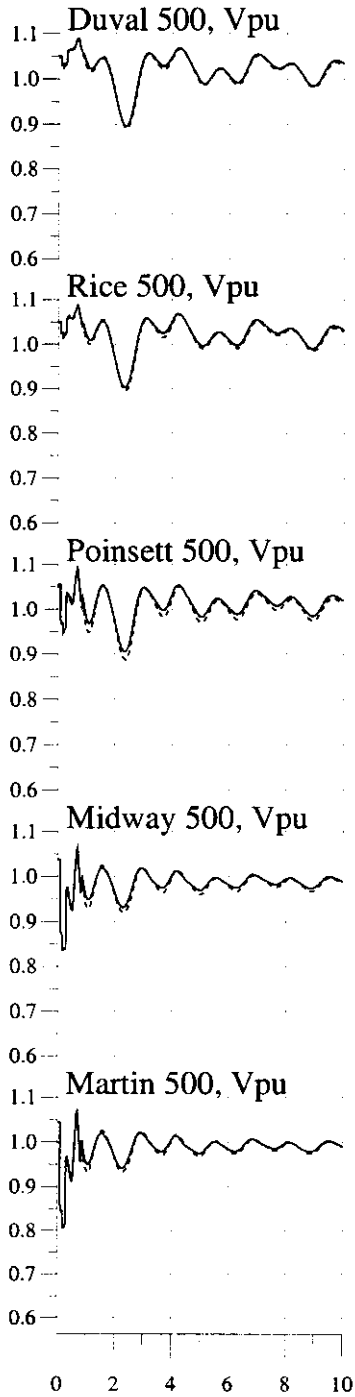
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Machine Variables: (—) With Okeechobee FPC Dispatch, (...) Without



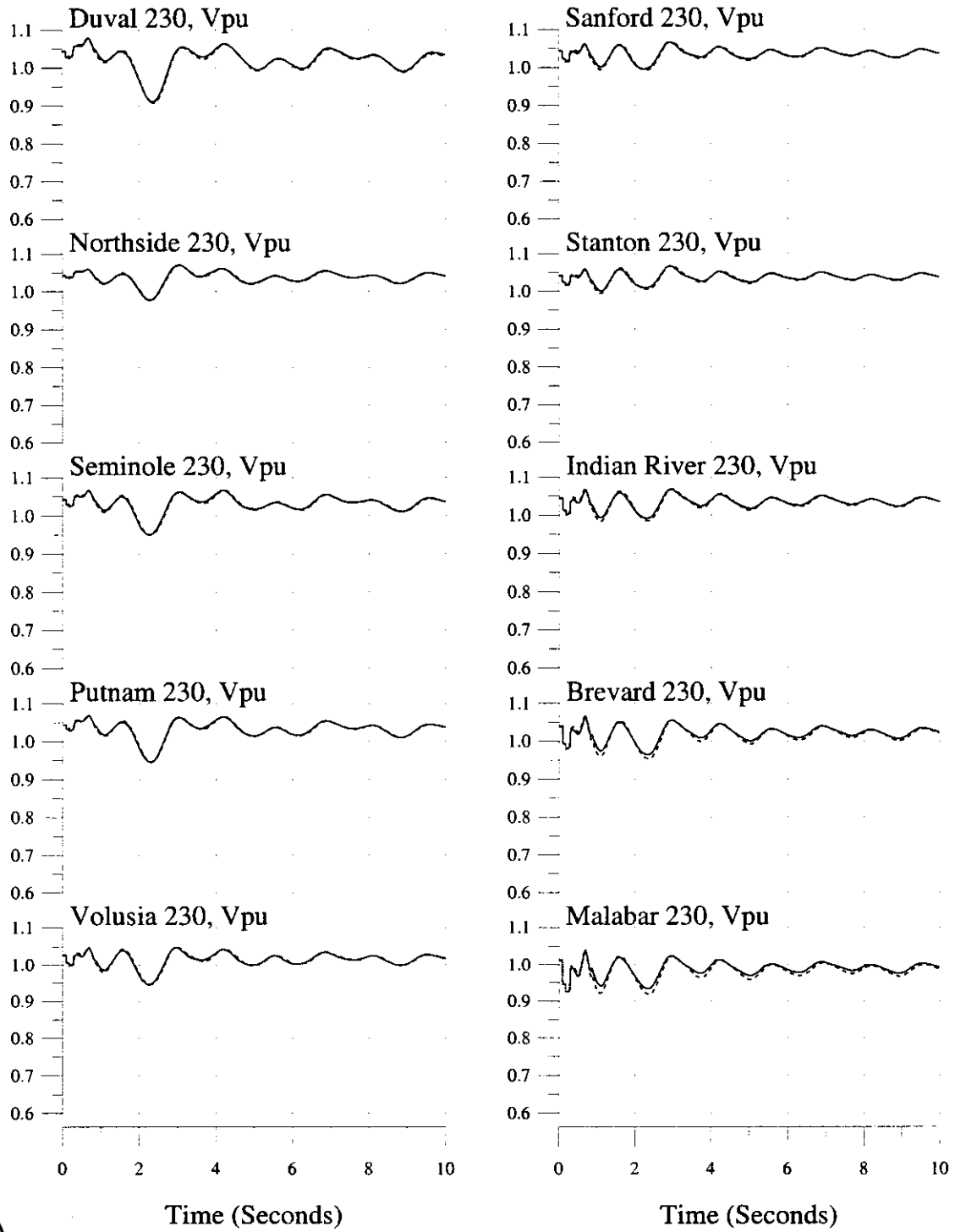
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Bus Variables: (\_\_\_) With Okeechobee FPC Dispatch, (...) Without



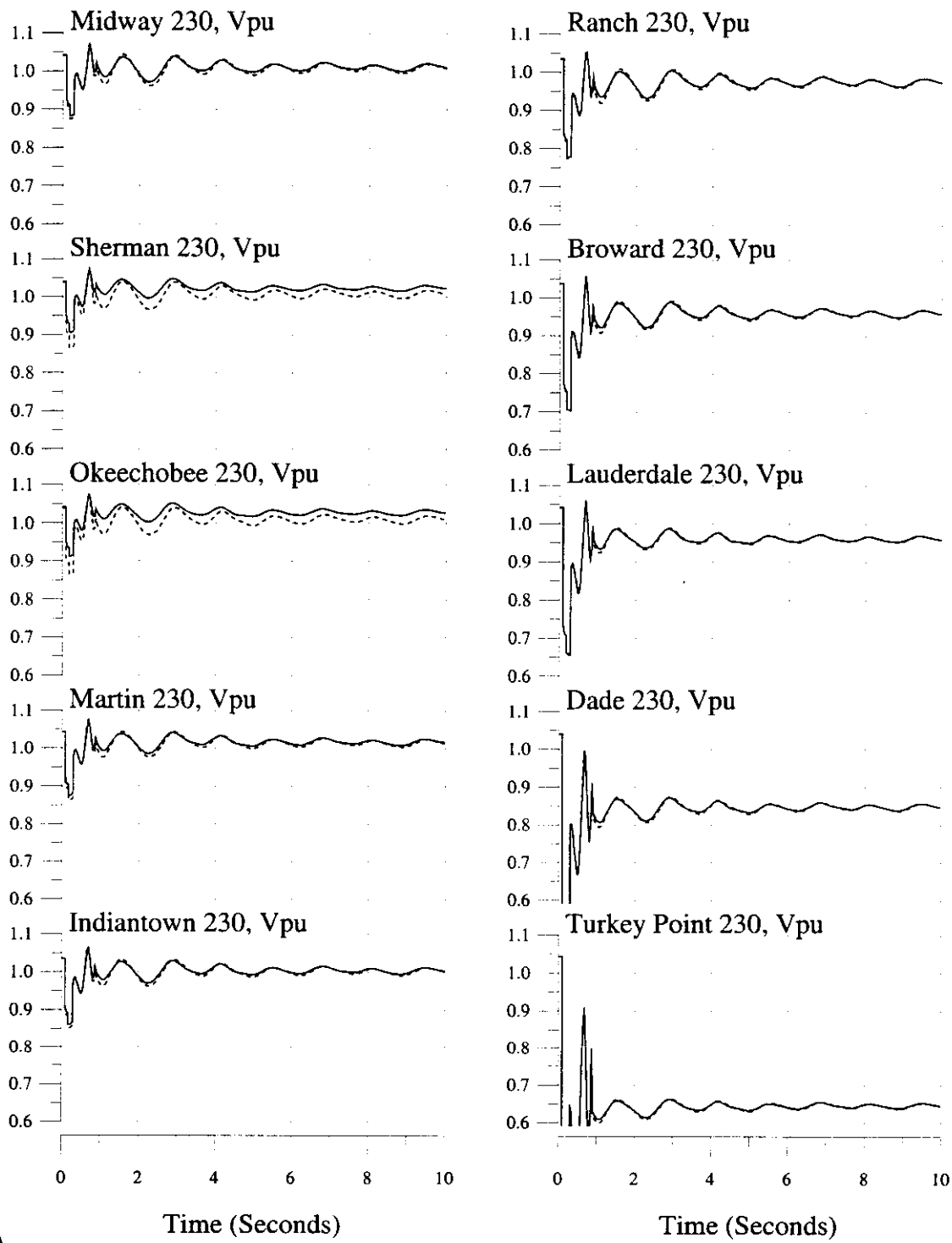
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



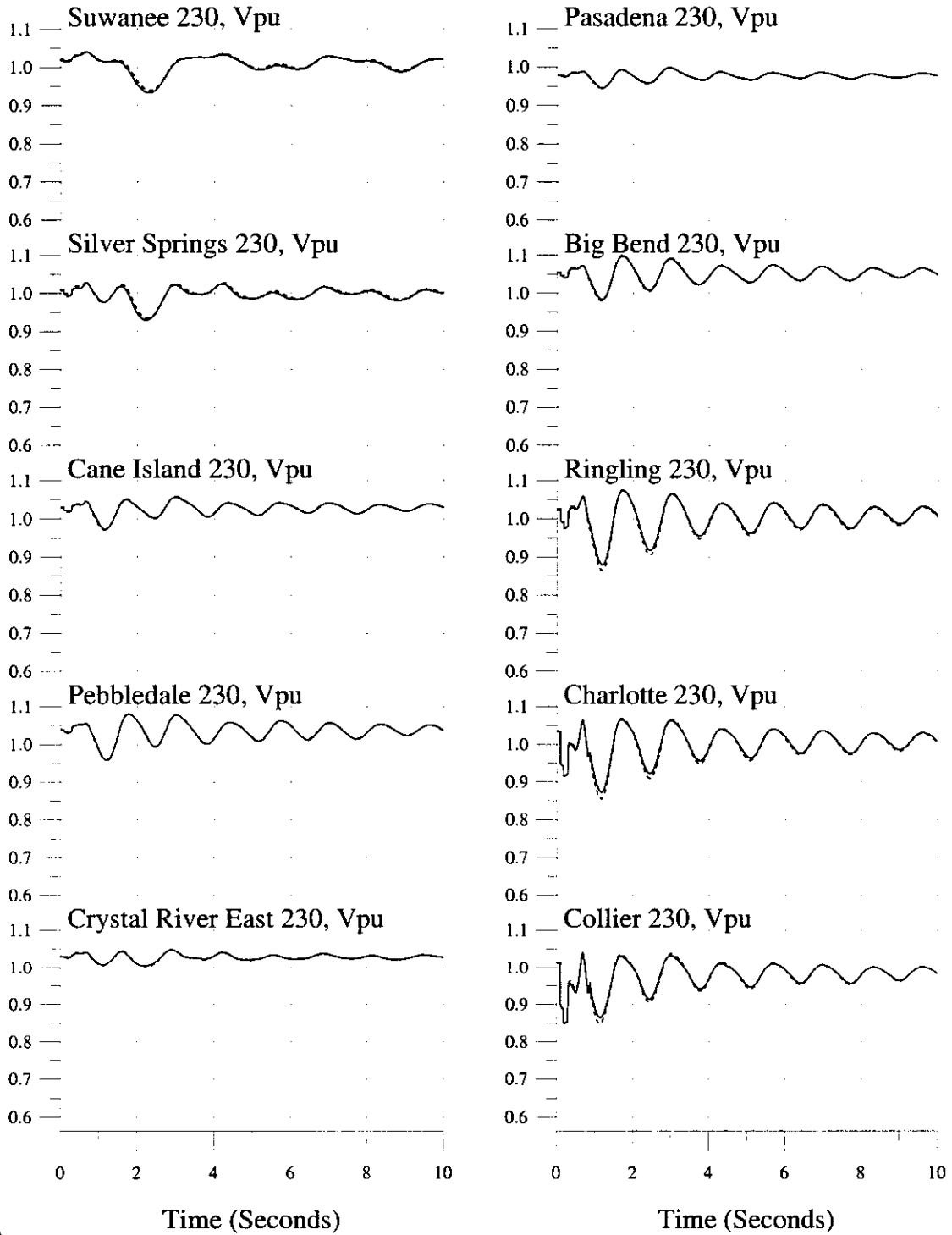
3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System

Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
2003 Winter System

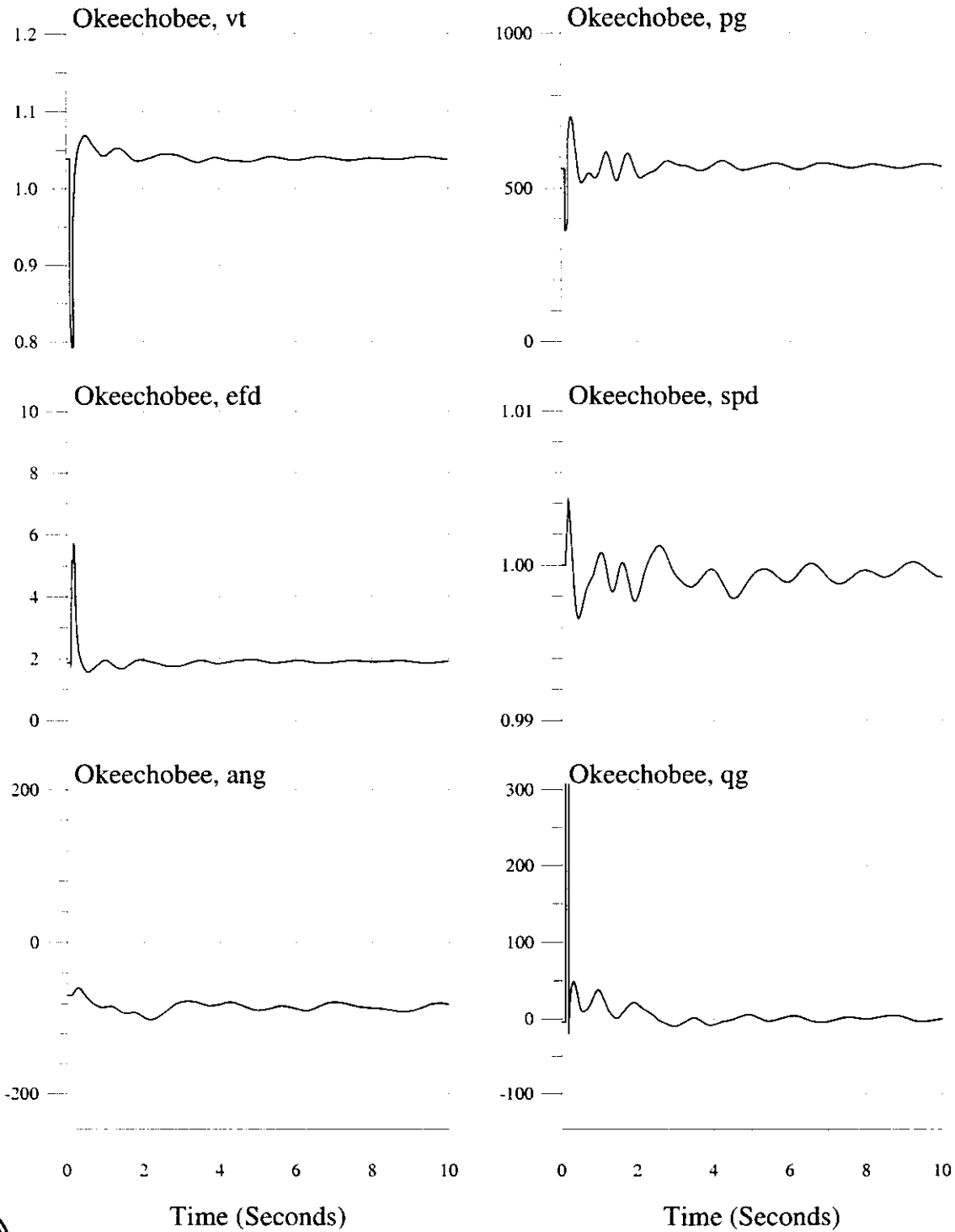
Bus Variables: (—) With Okeechobee FPC Dispatch, (...) Without



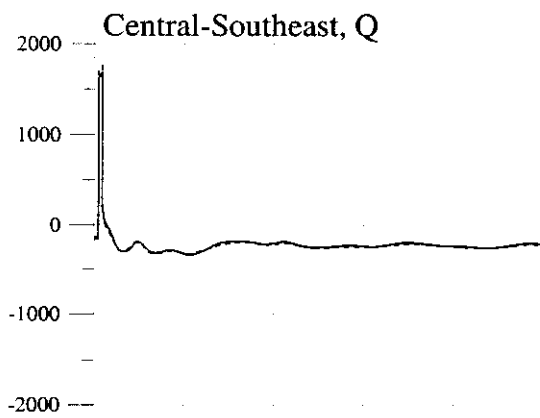
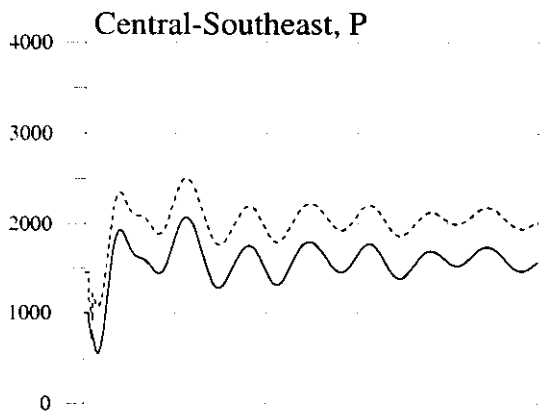
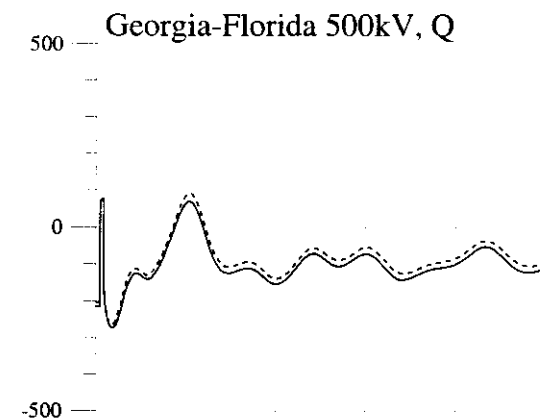
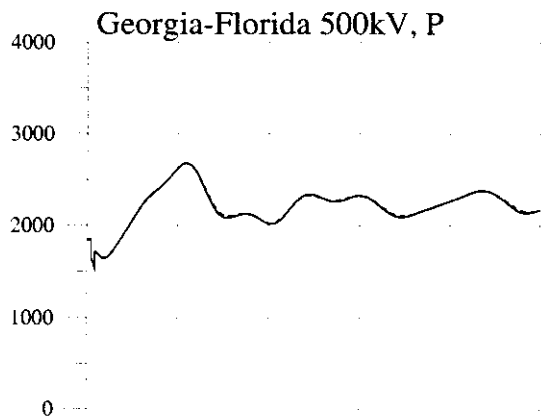
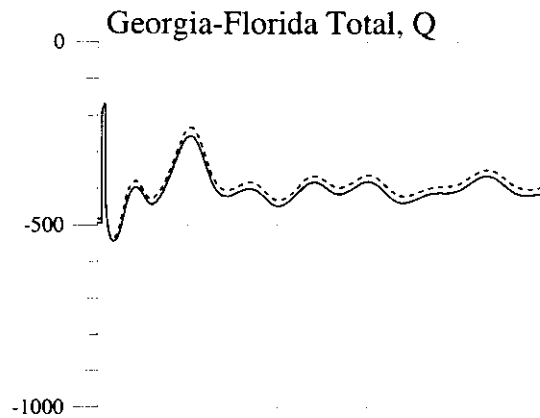
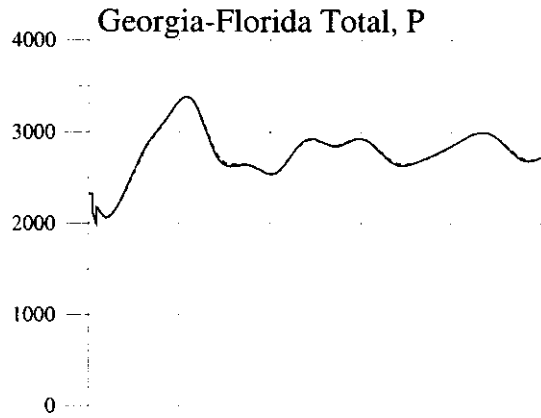




3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



0 2 4 6 8 10

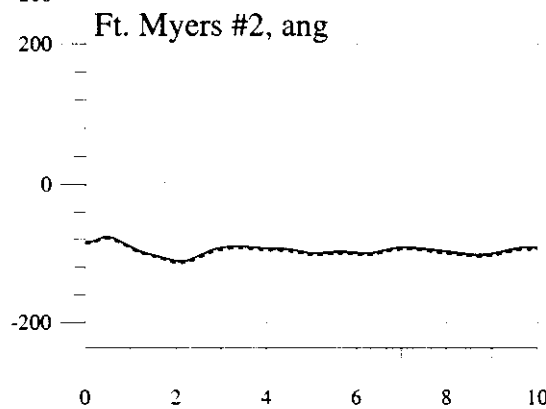
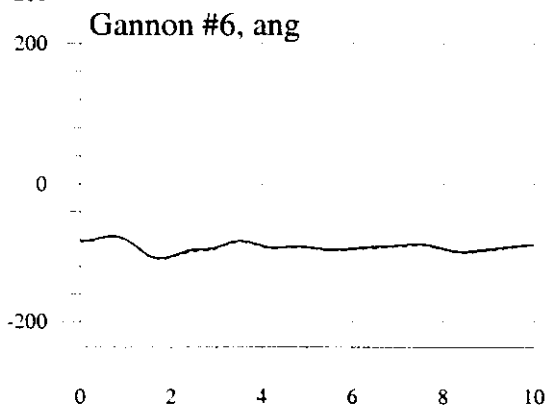
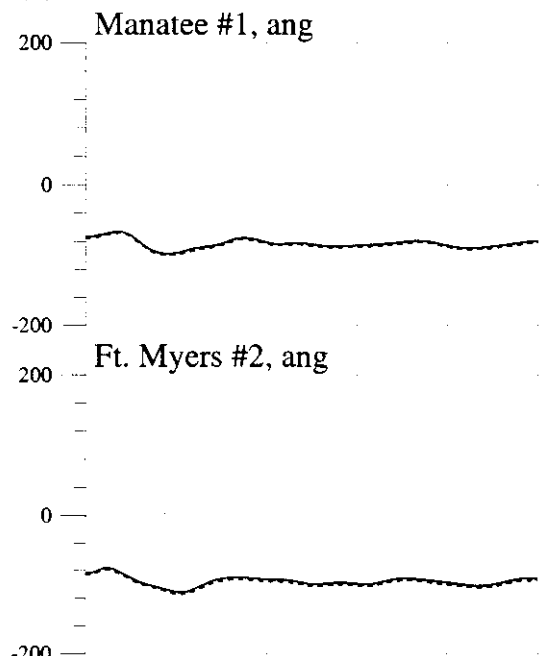
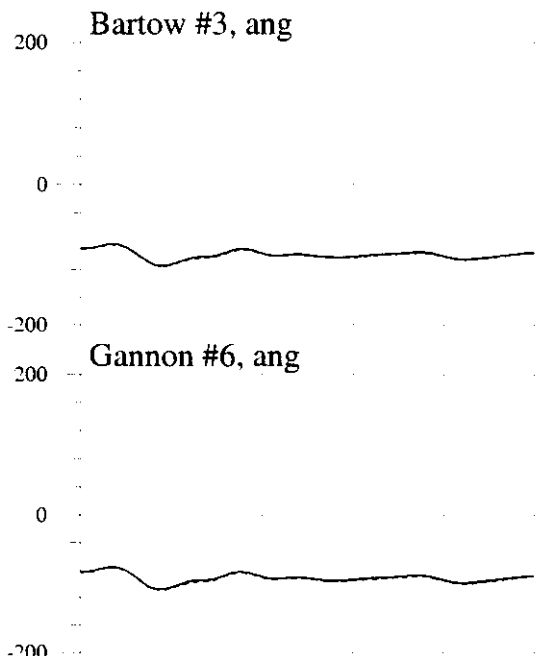
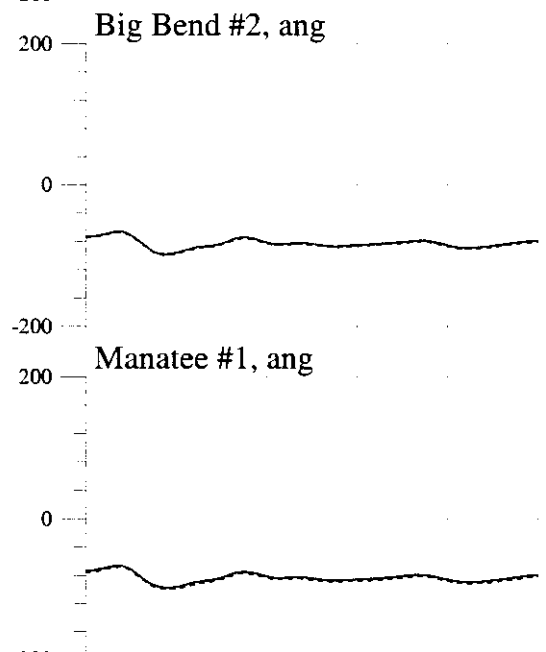
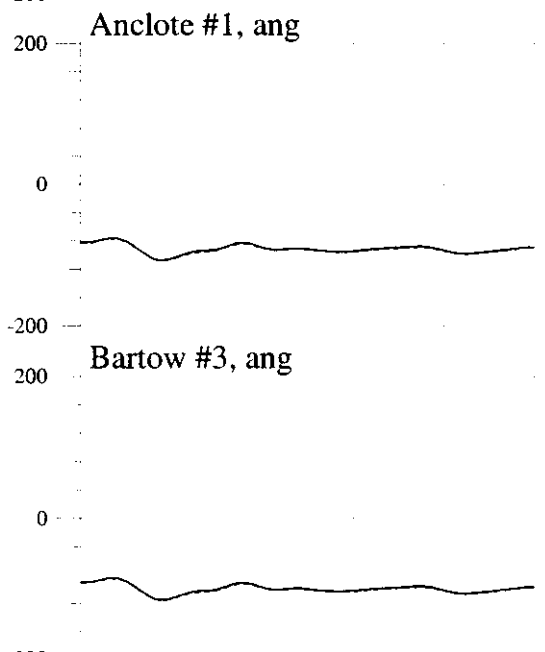
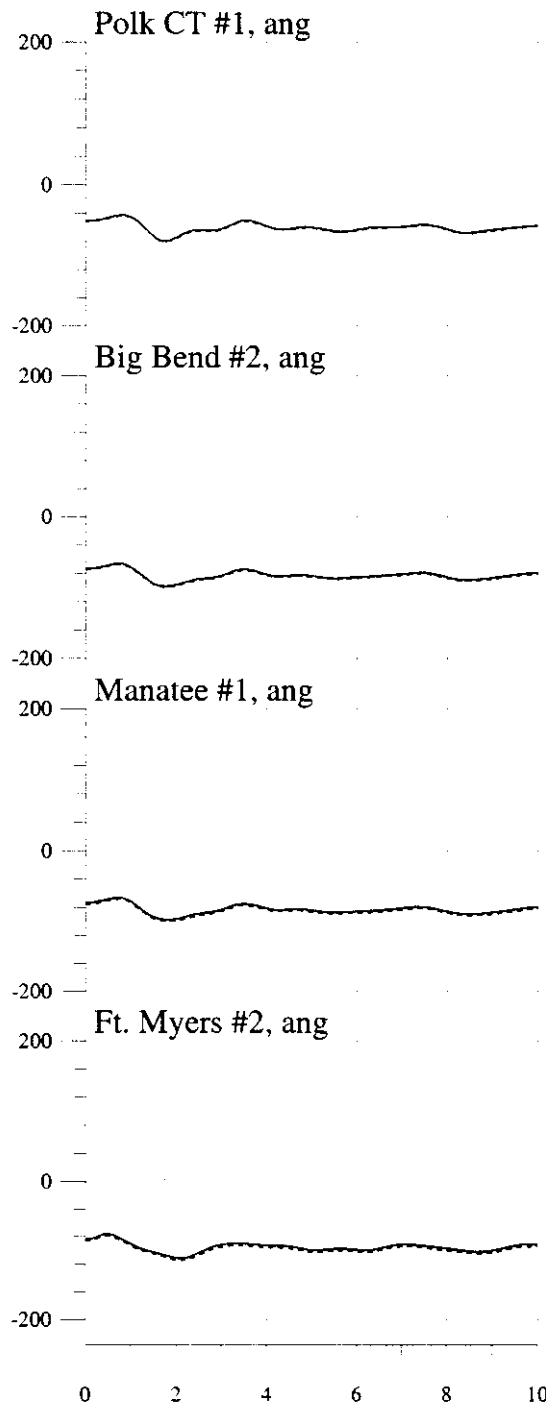
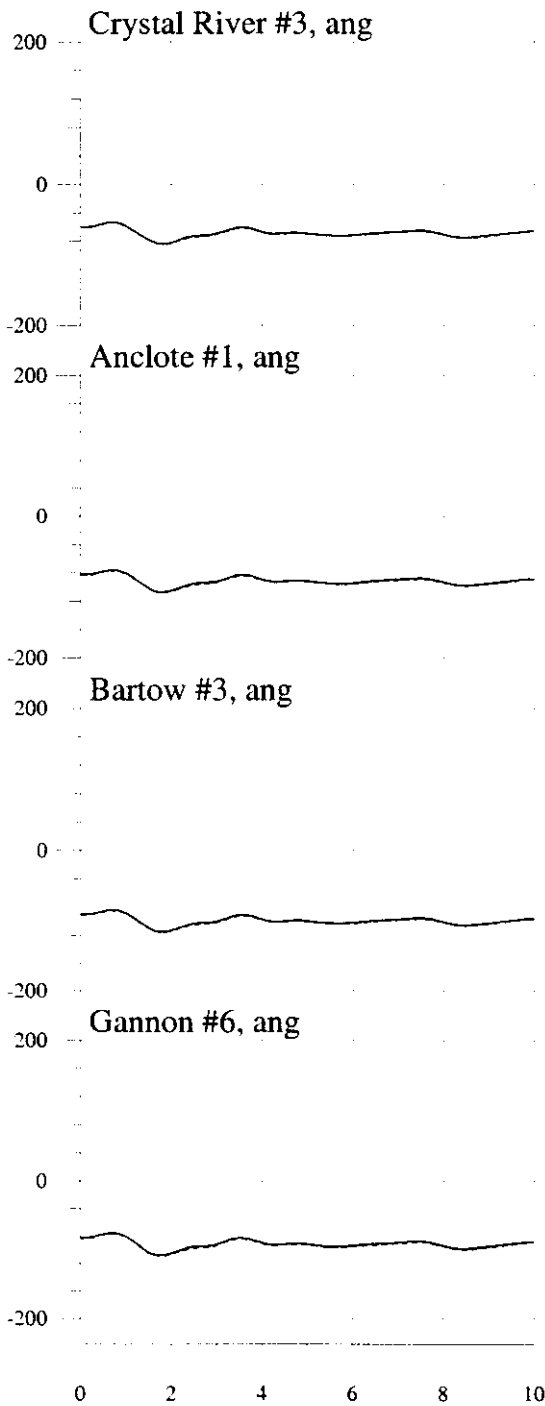
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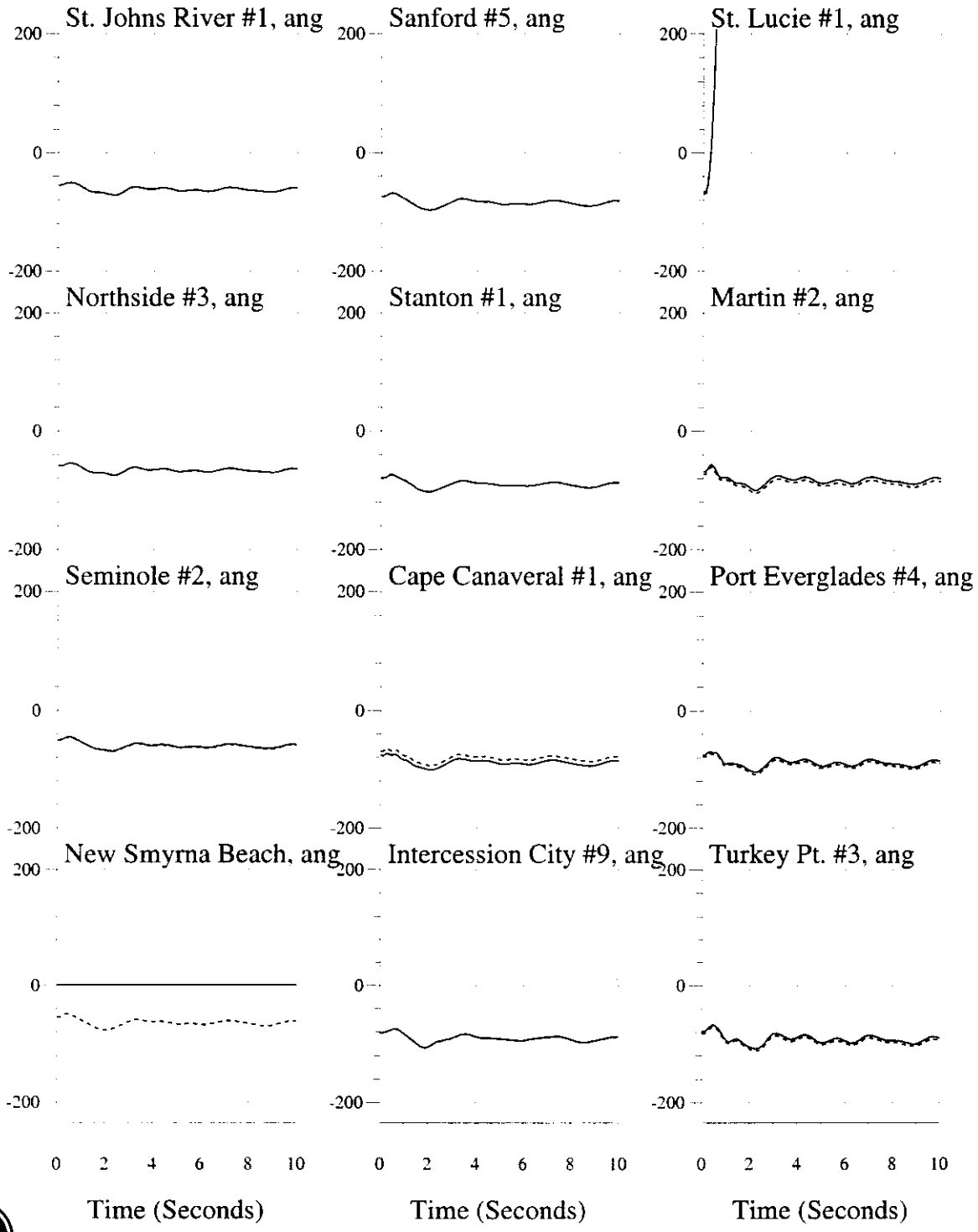
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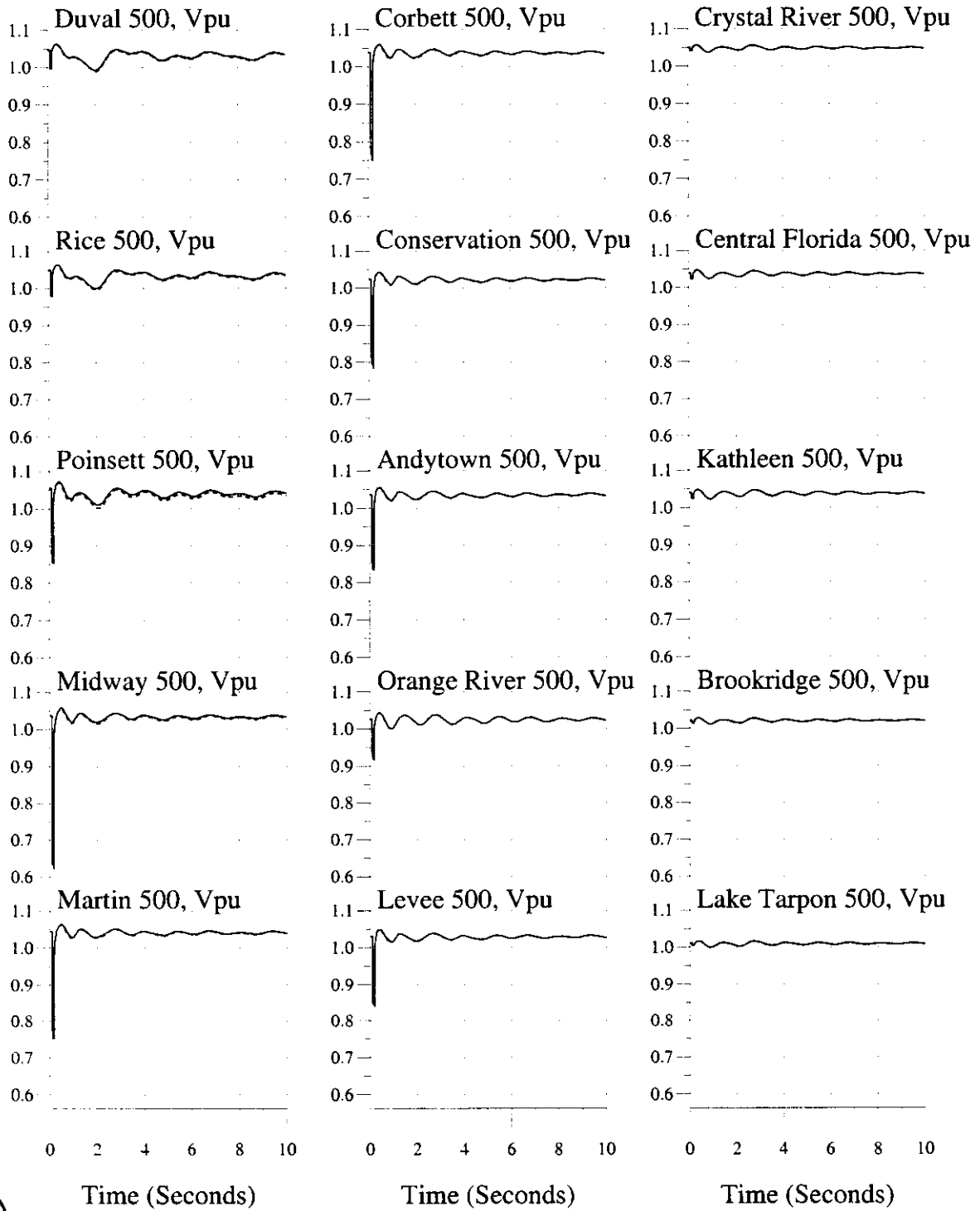
3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



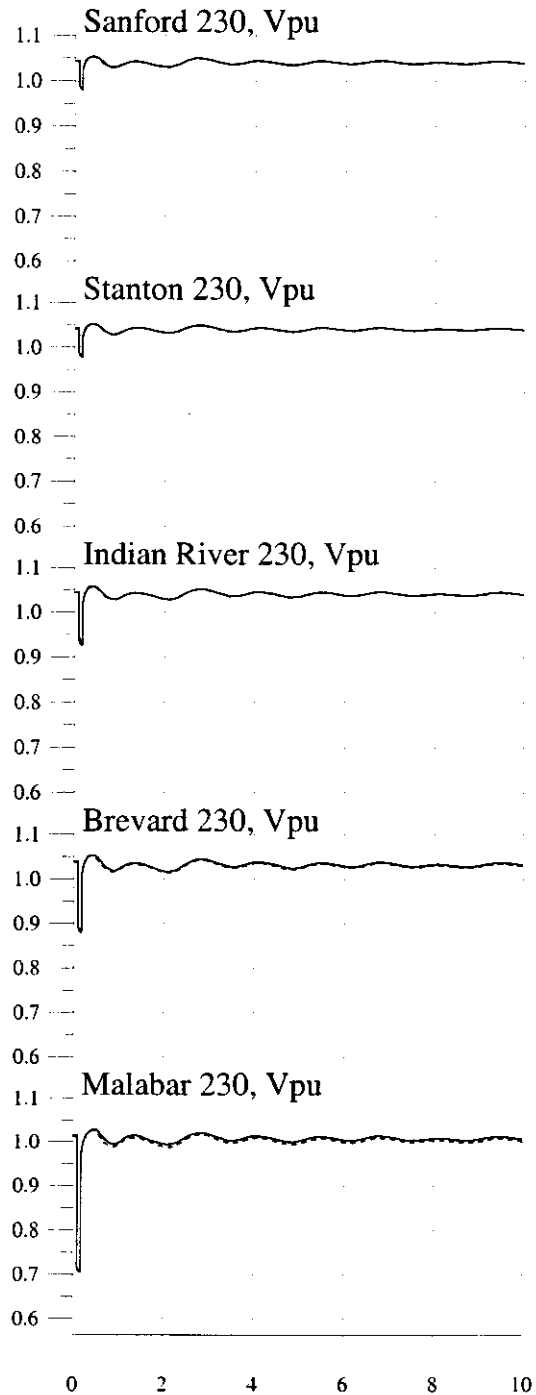
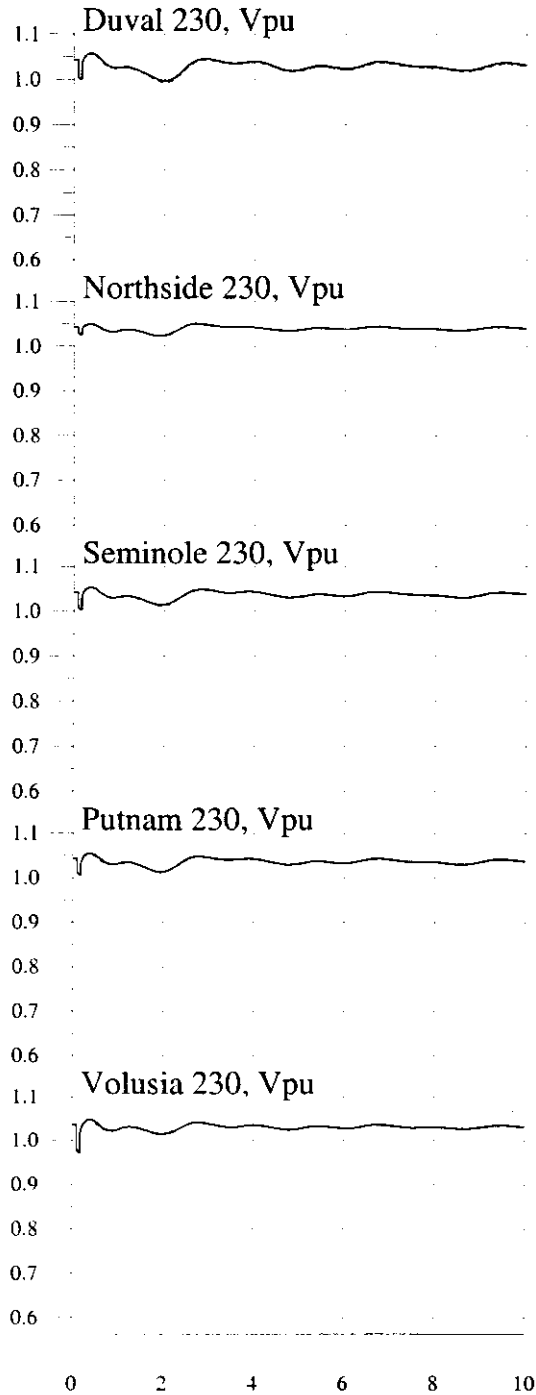
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3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
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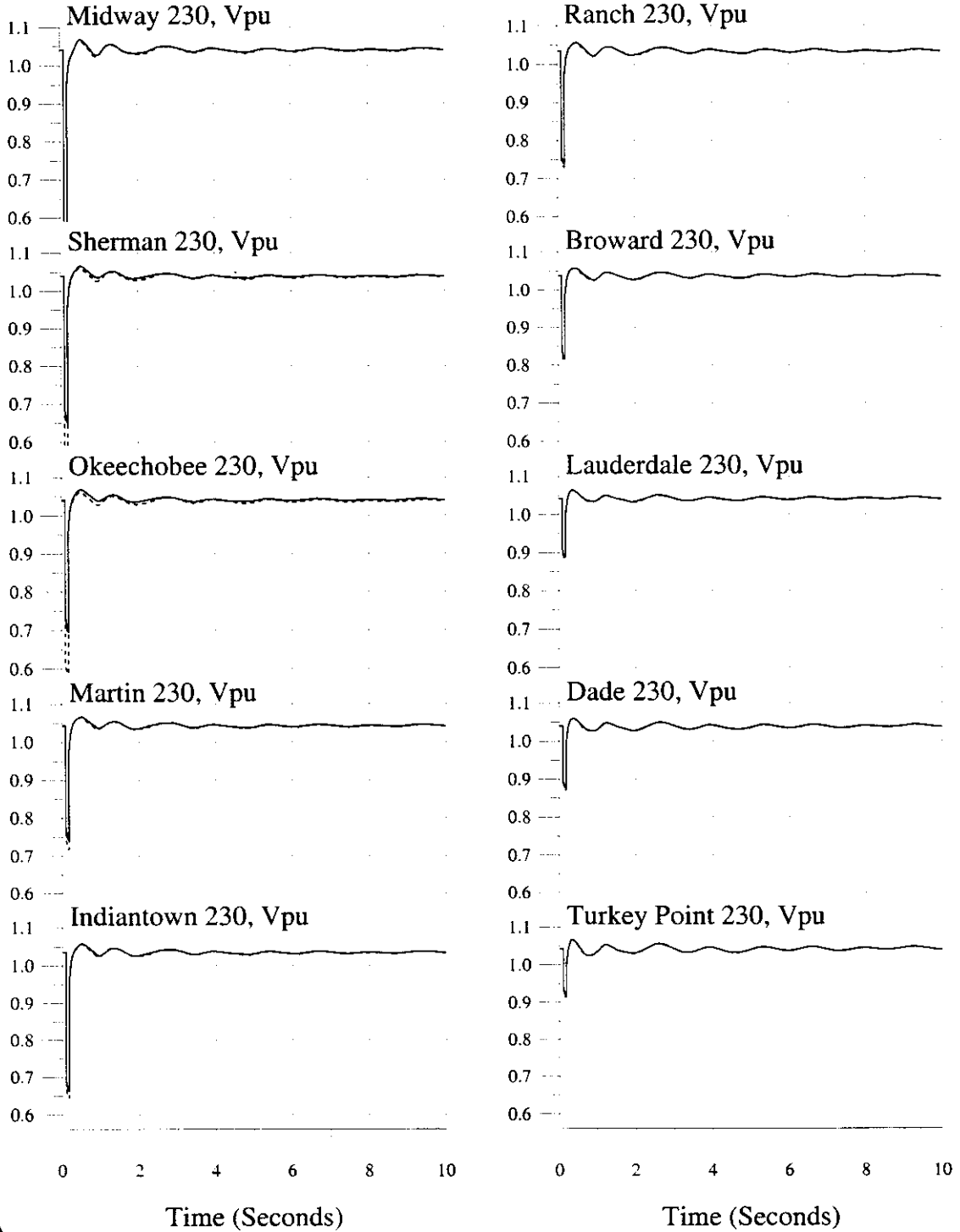


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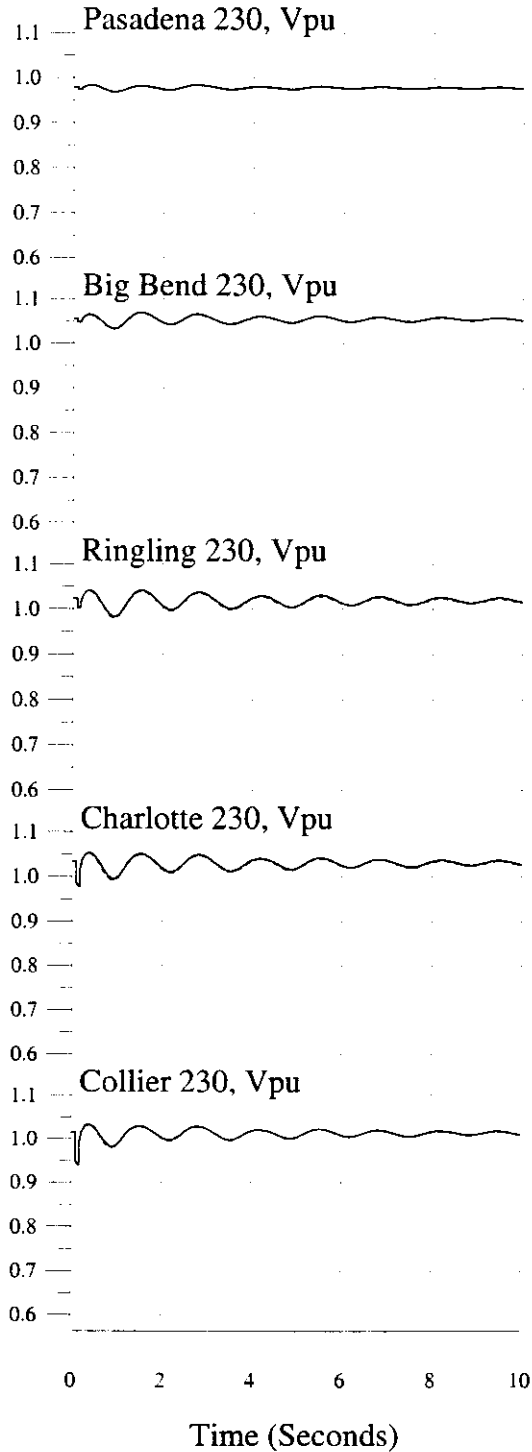
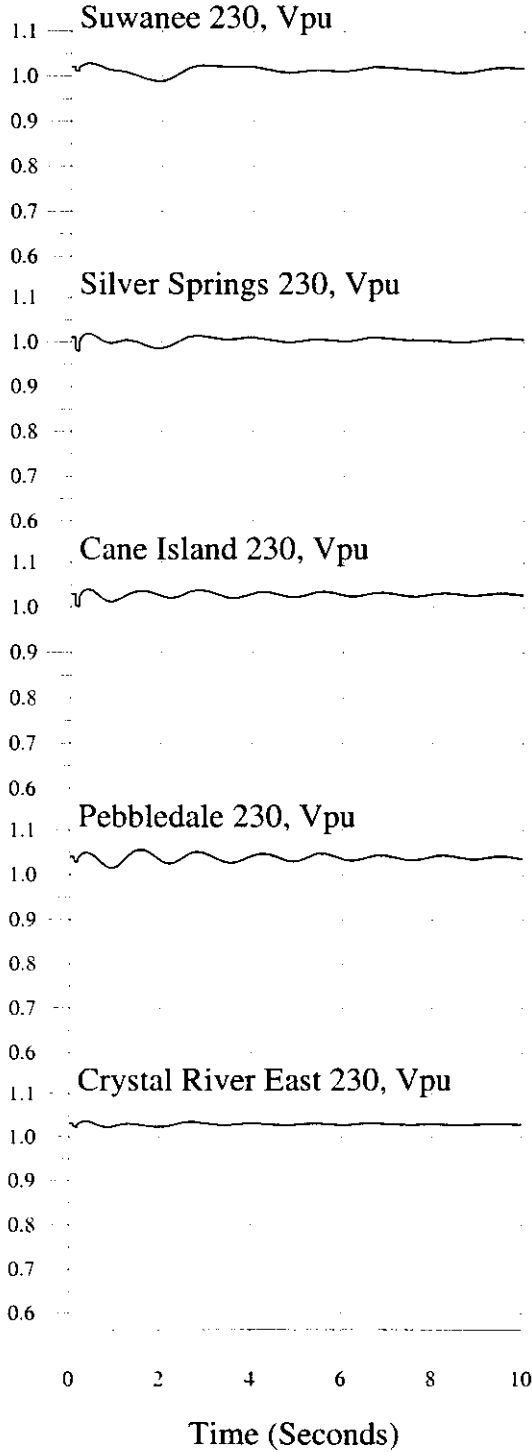
Time (Seconds)



3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

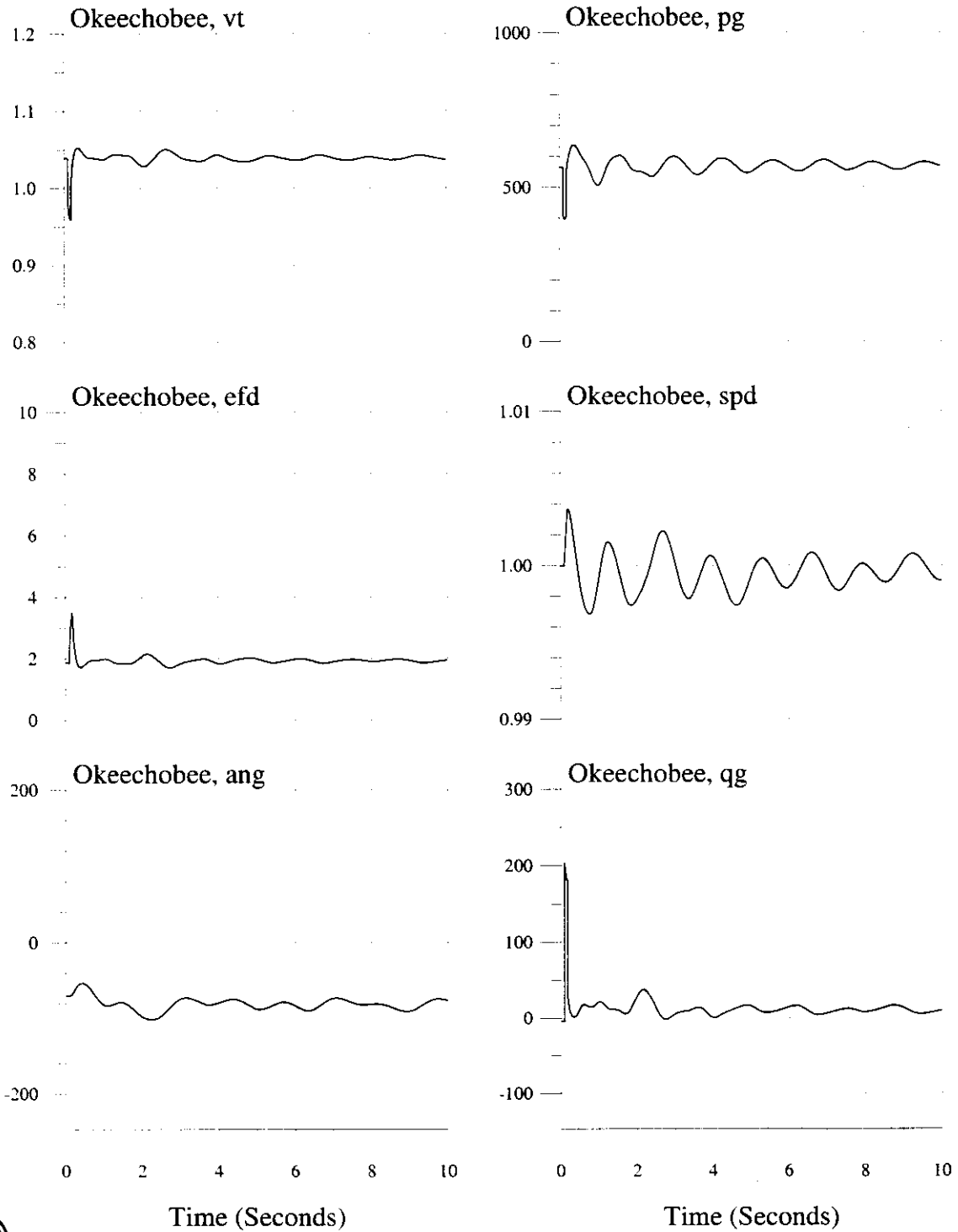


3-phase, 5-cycle Fault at St. Lucie 230kV Bus, Trip St. Lucie #1 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

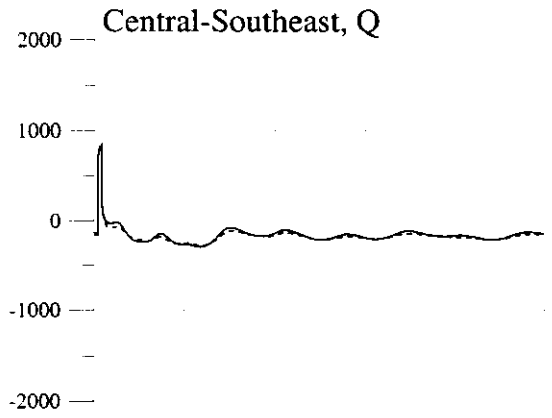
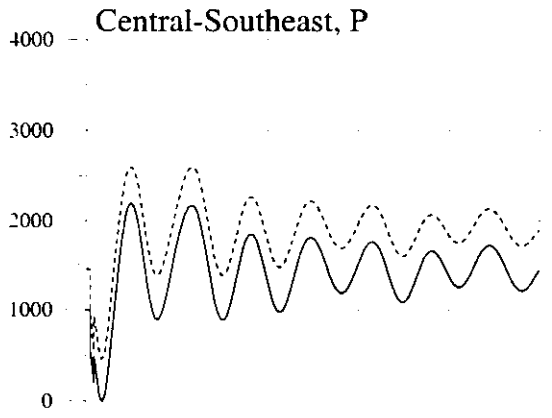
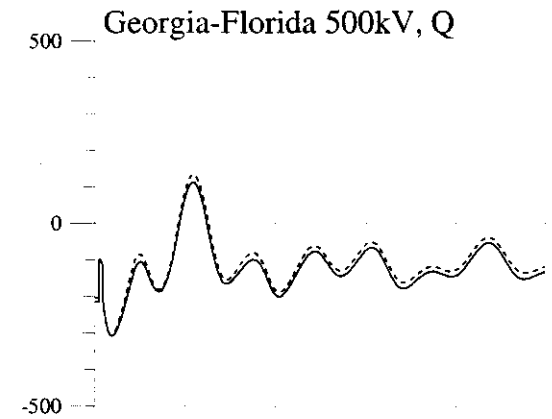
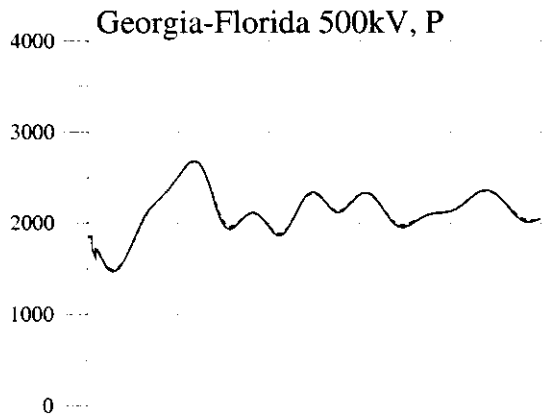
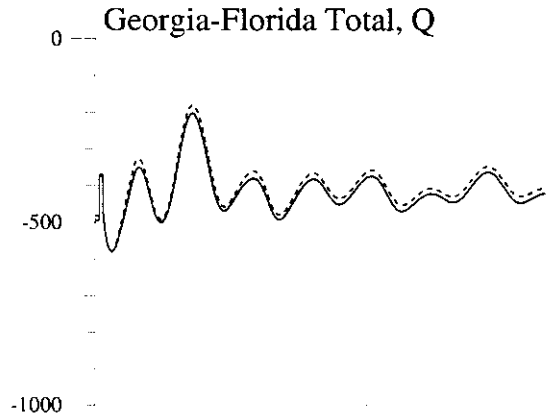
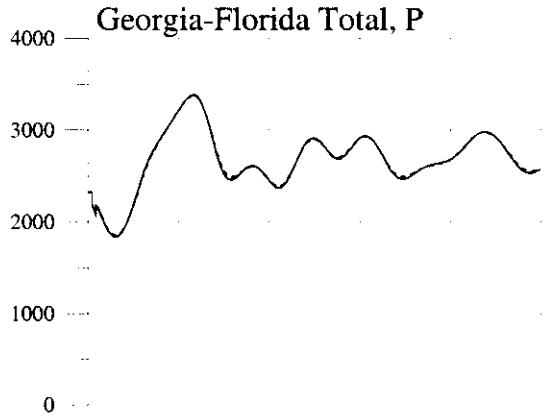




3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without

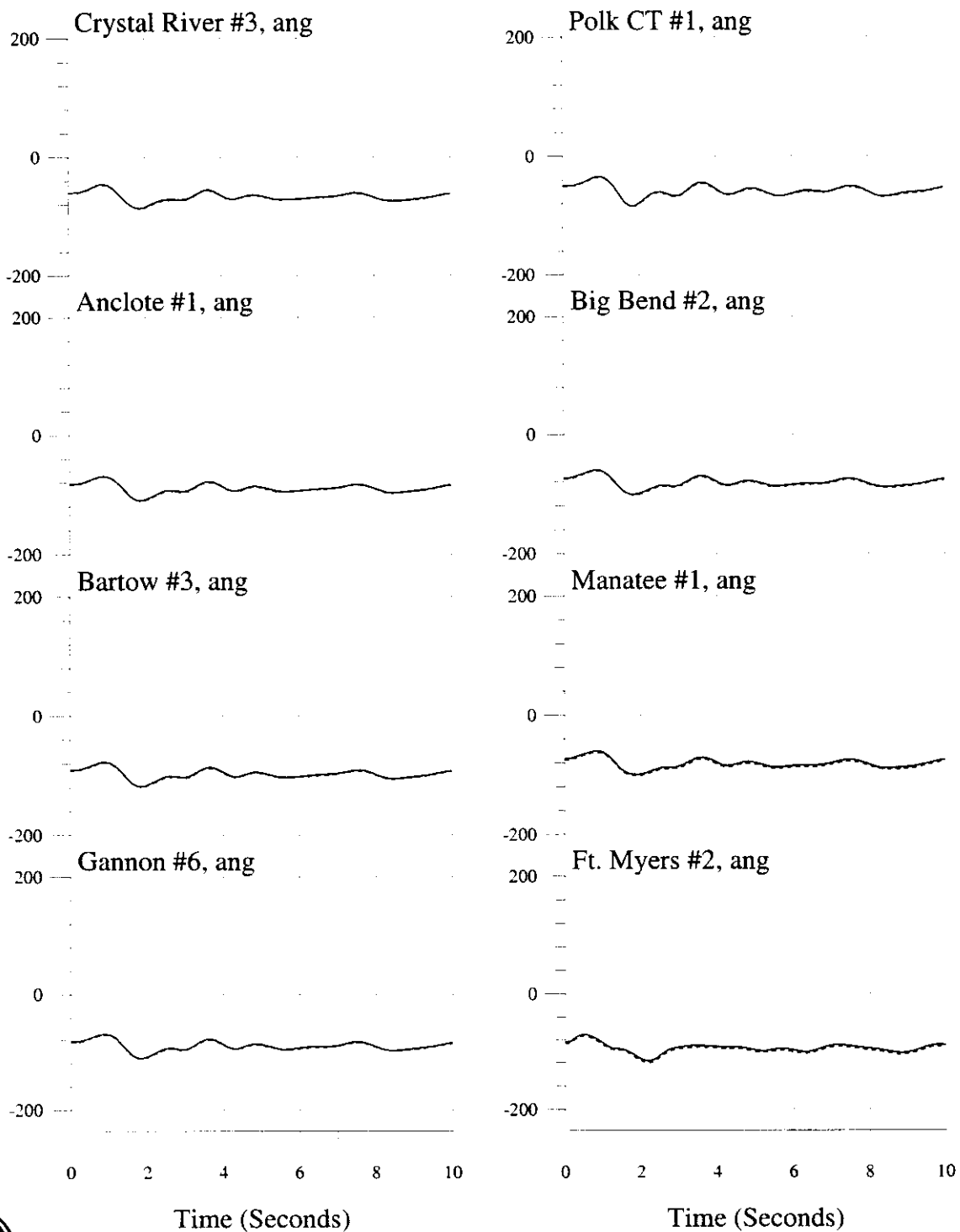


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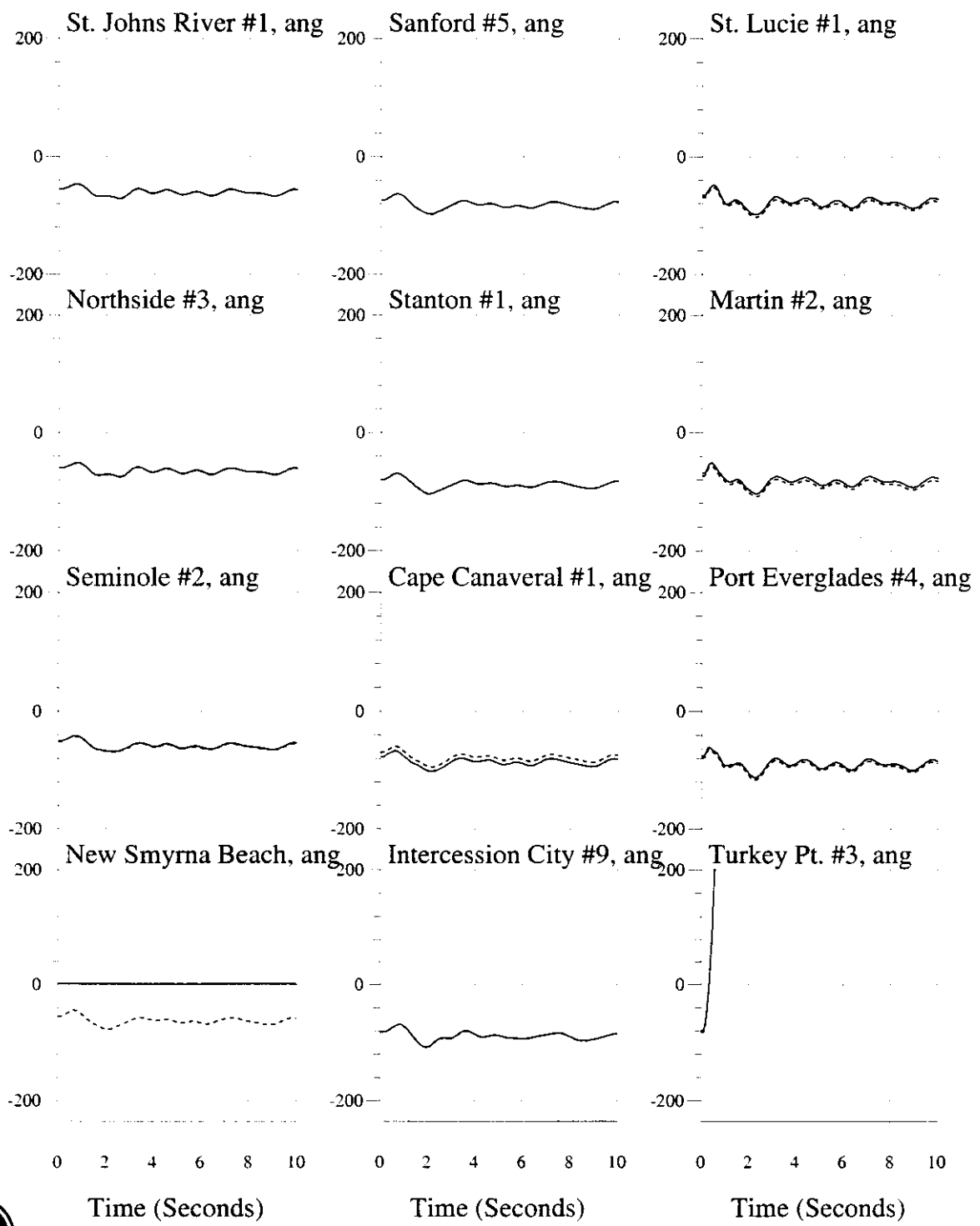
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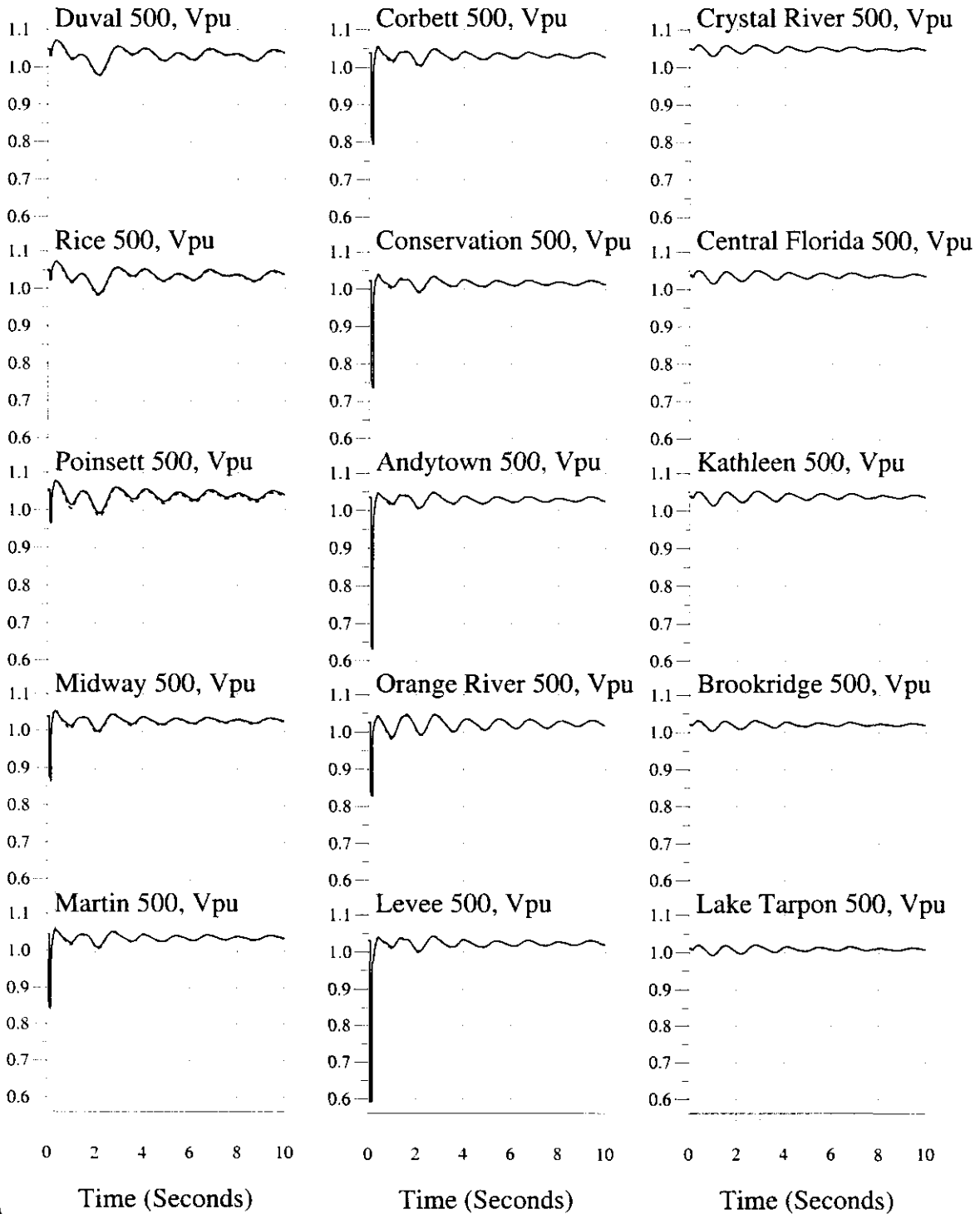
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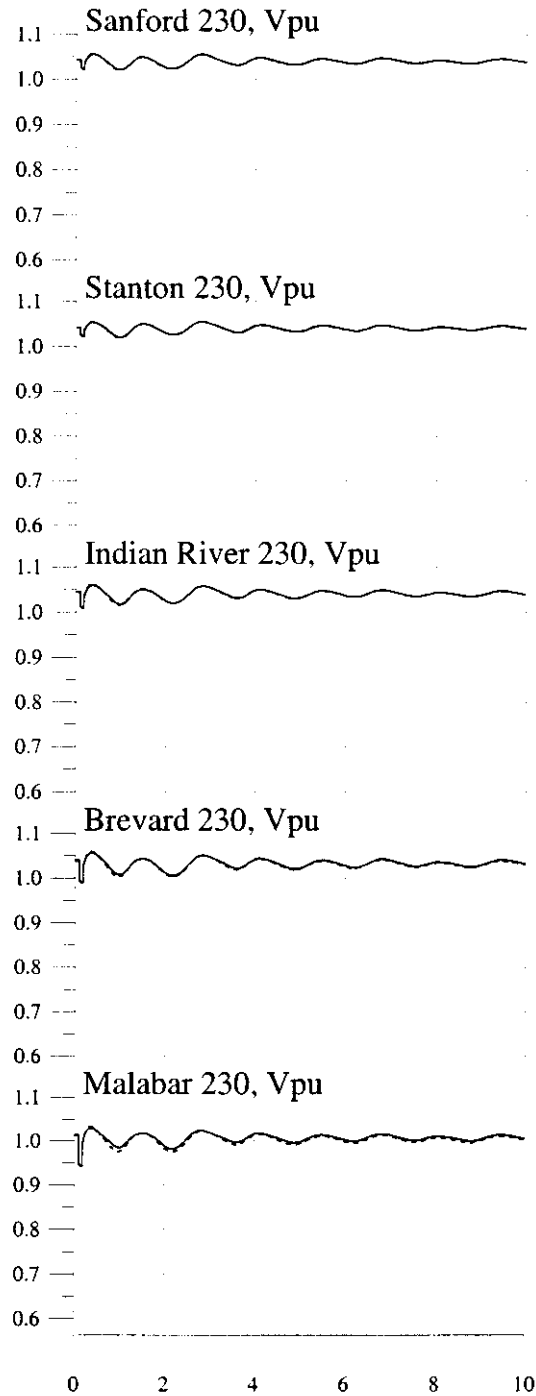
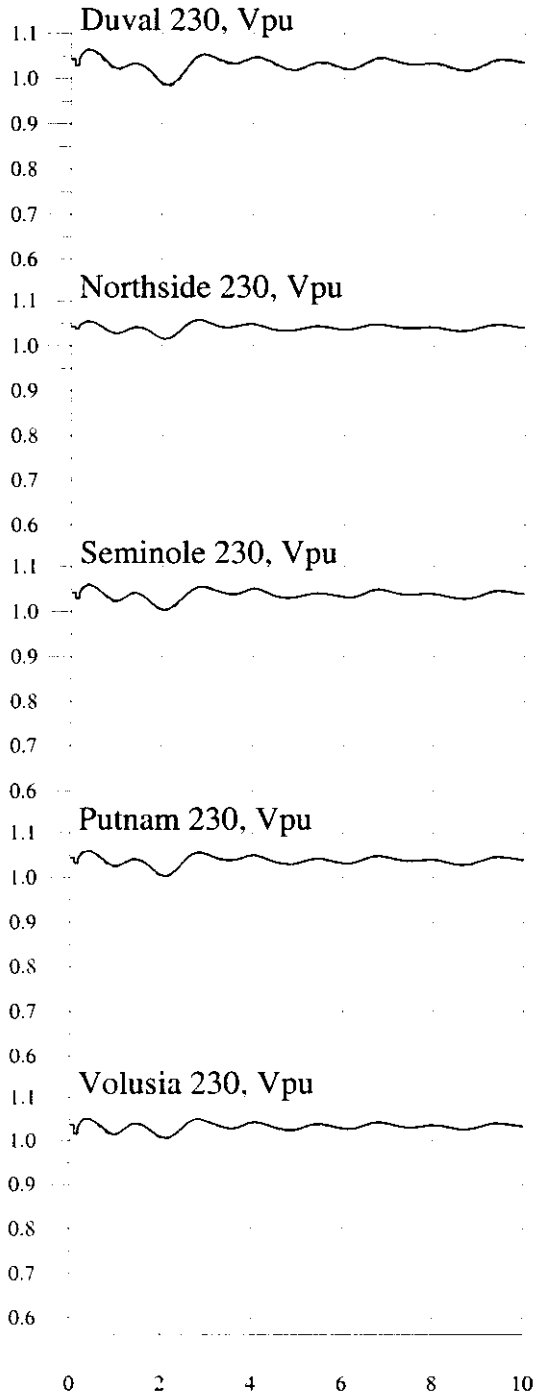
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 Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



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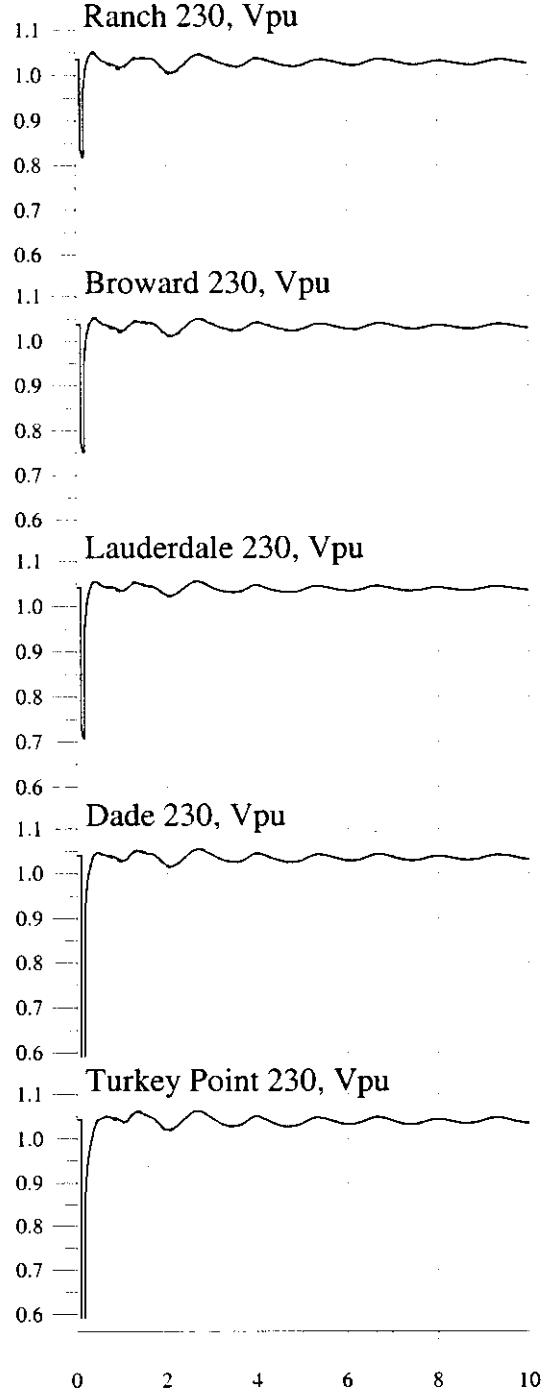
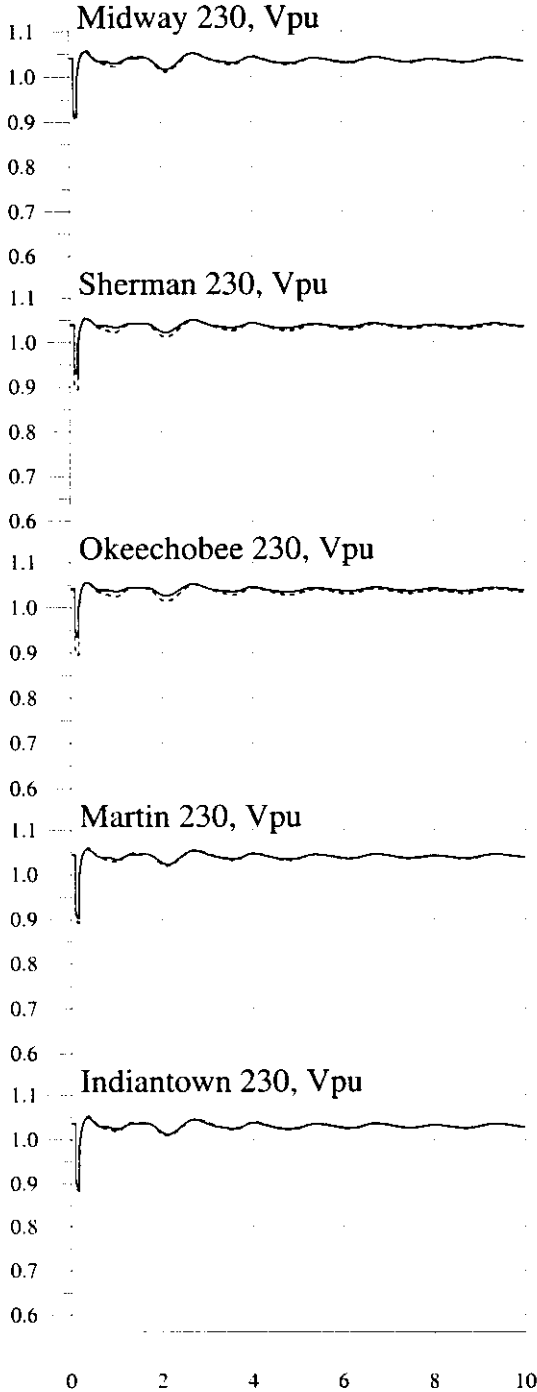


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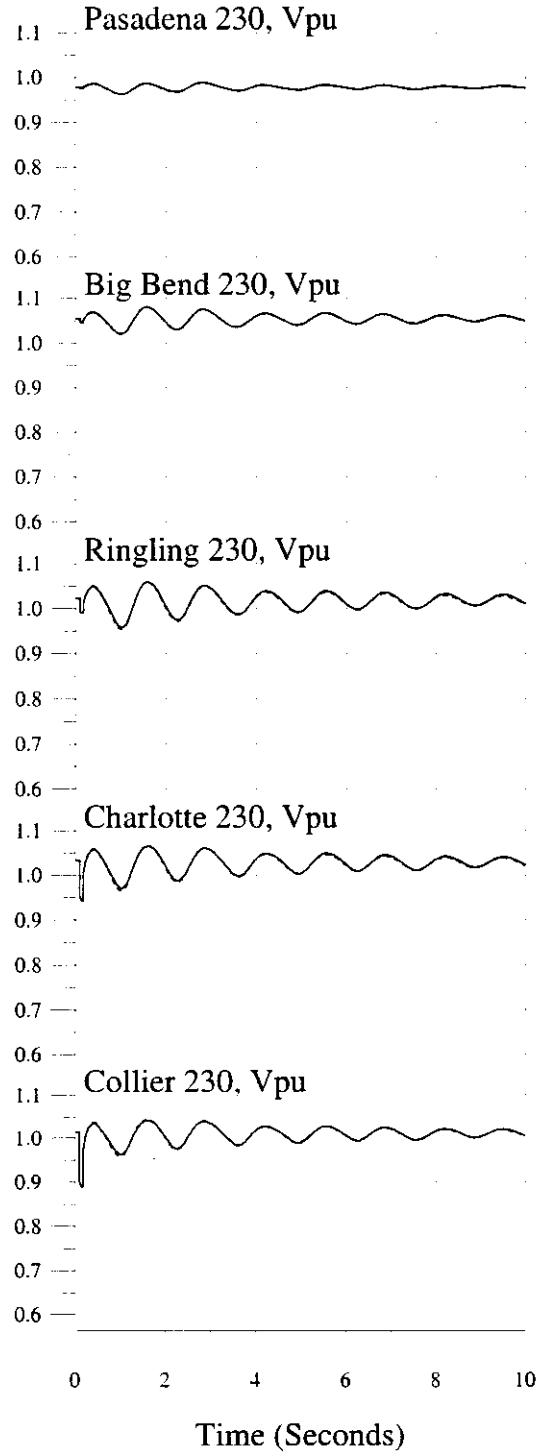
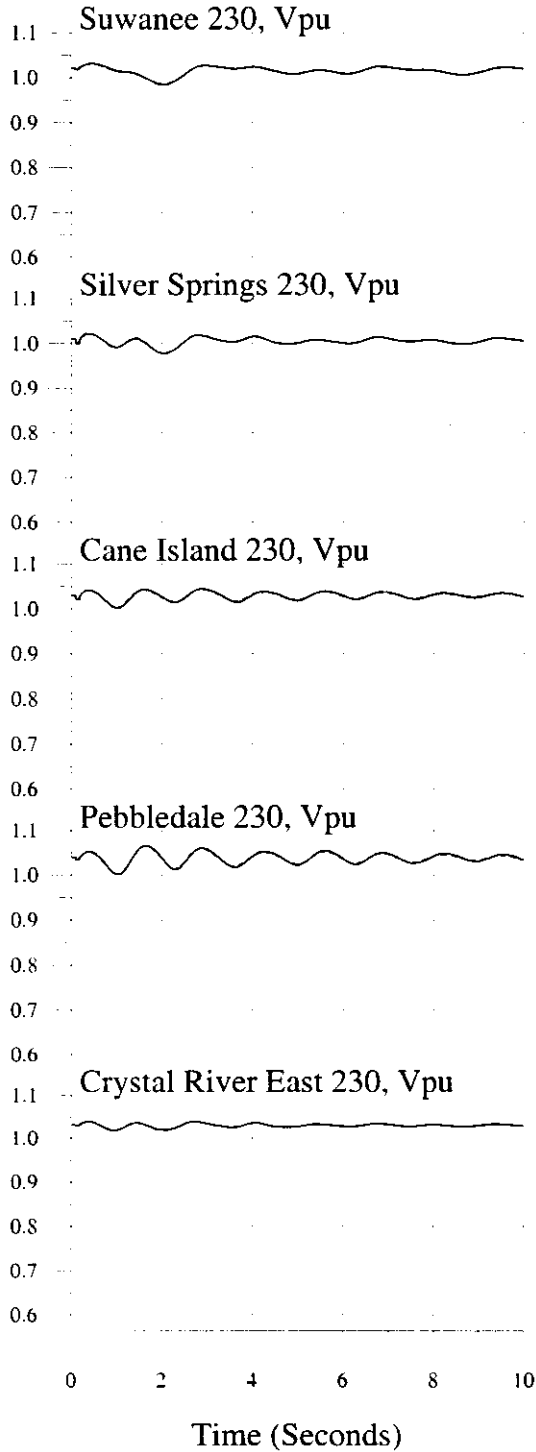
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3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

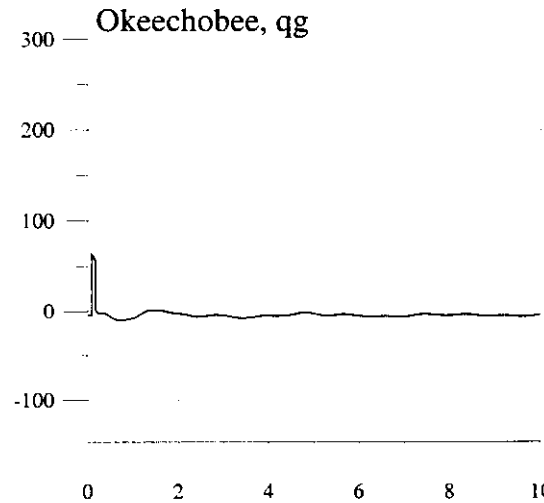
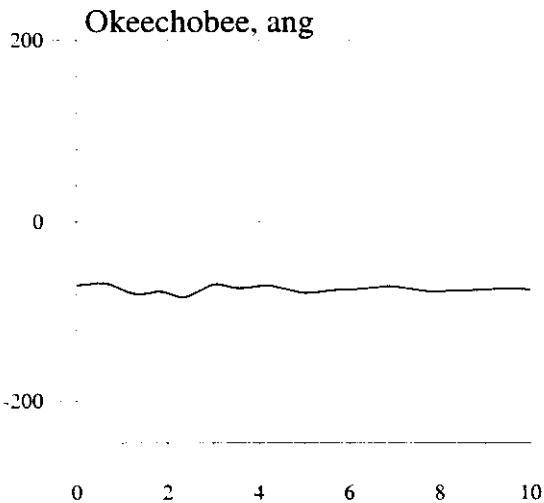
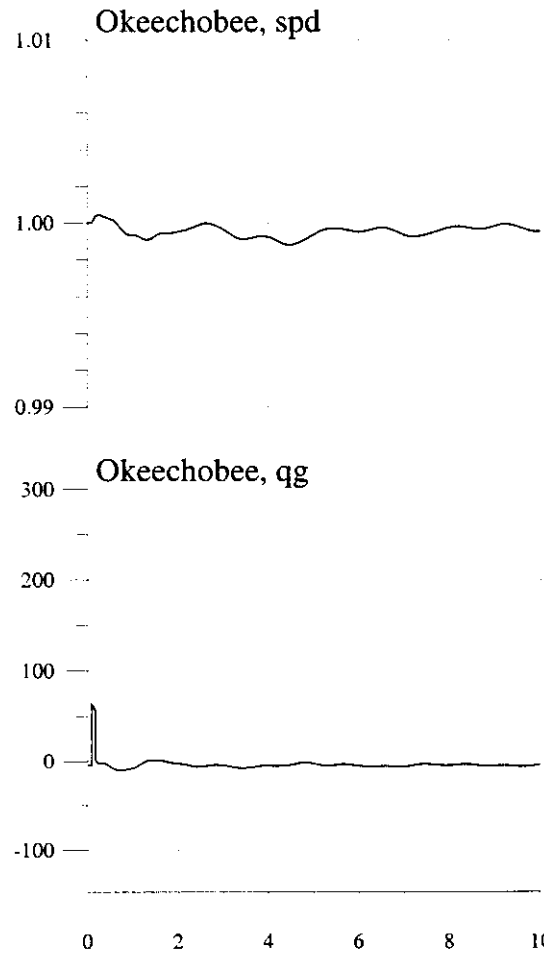
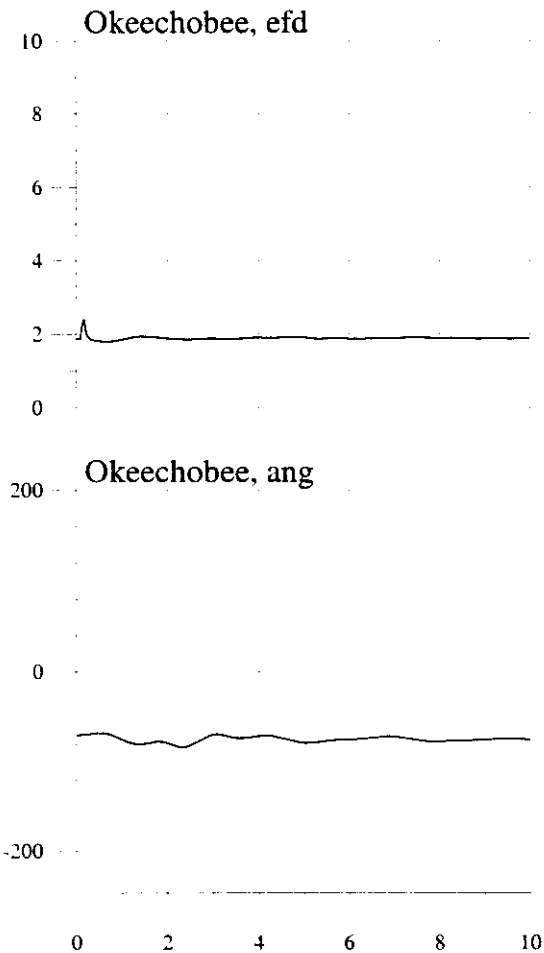
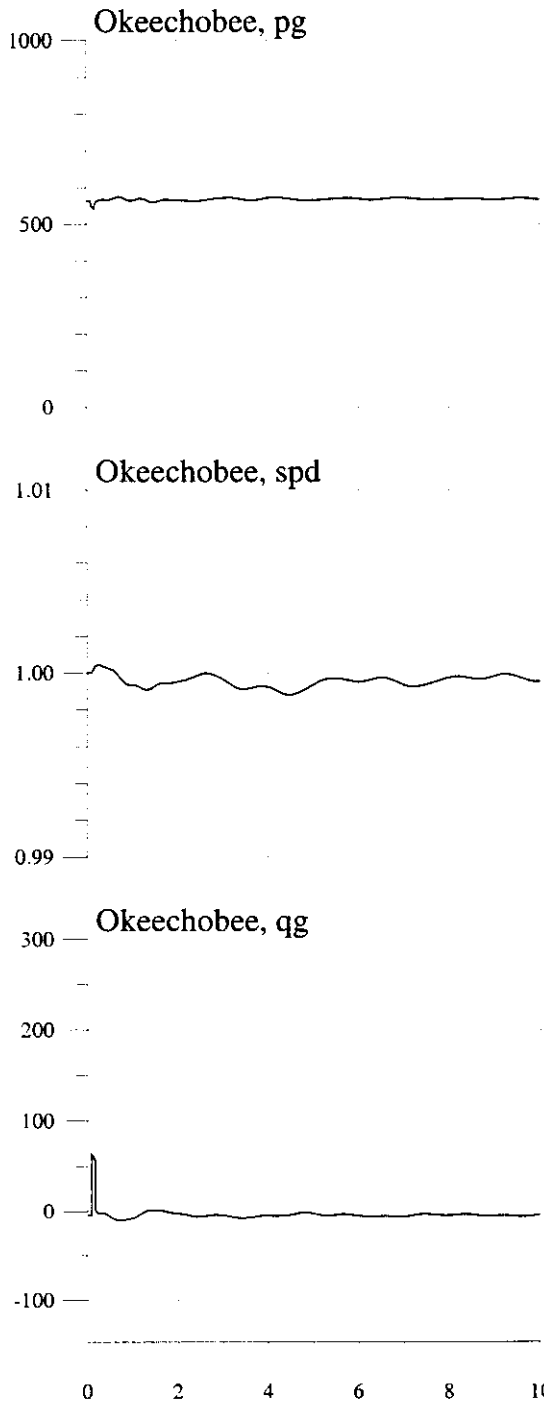
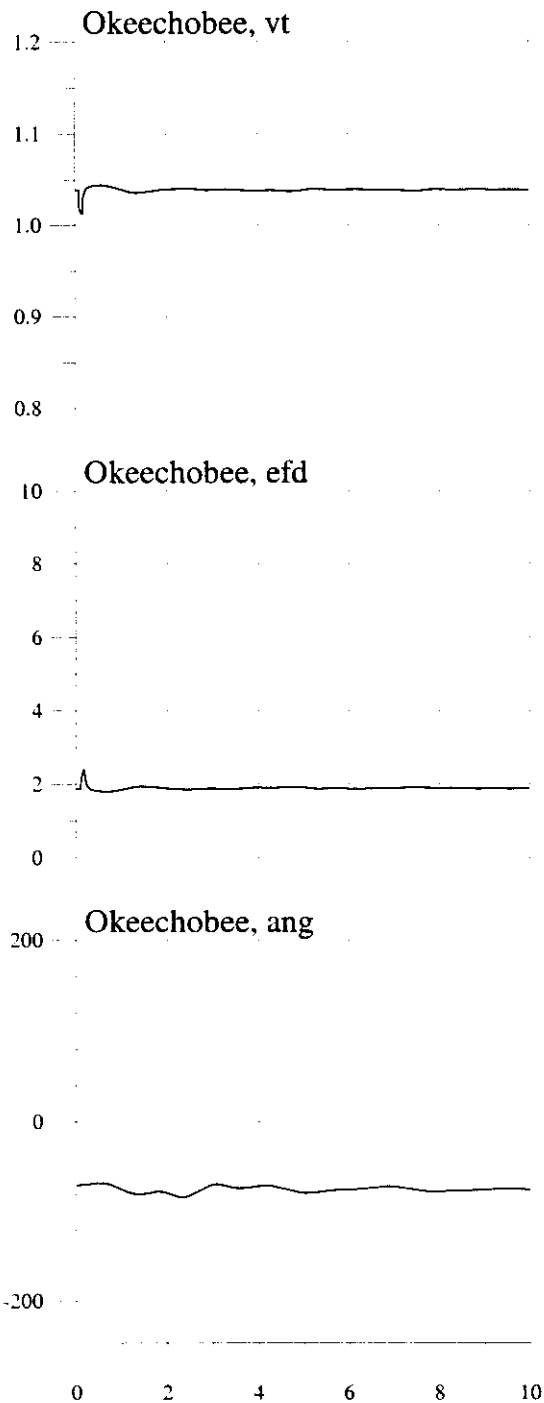


3-phase, 5-cycle Fault at Turkey Pt 230kV Bus, Trip Turkey Pt #3 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without





3-phase, 5-cycle Fault at Seminole 230kV Bus, Trip Seminole #1 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

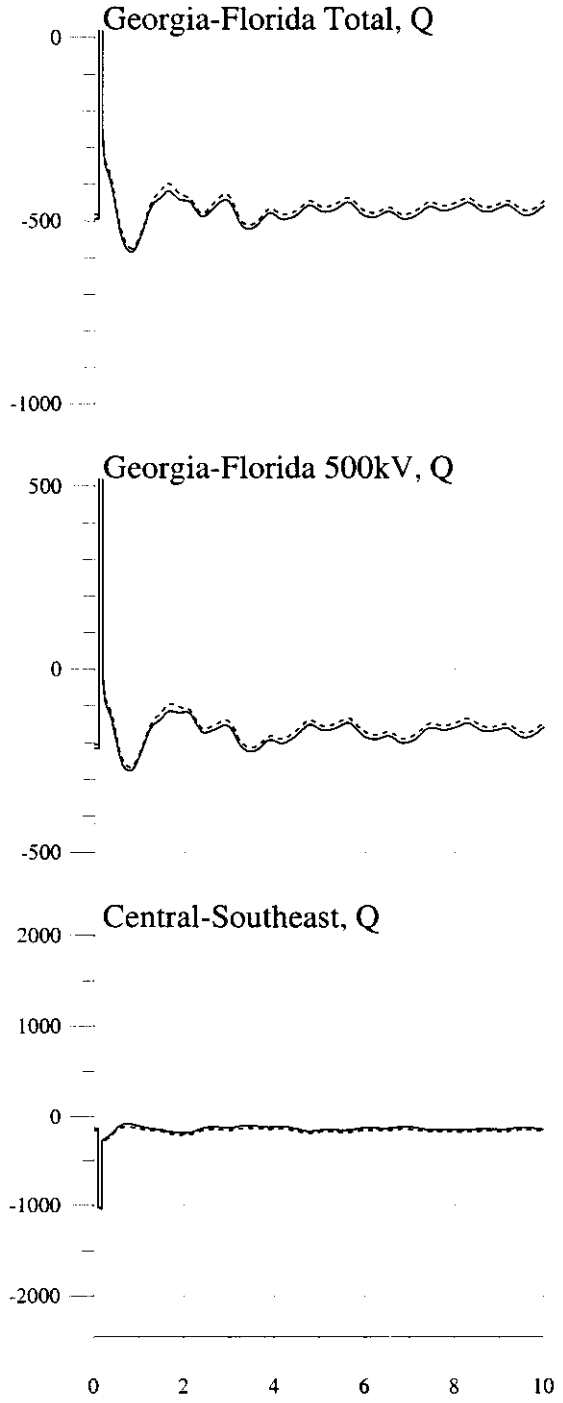
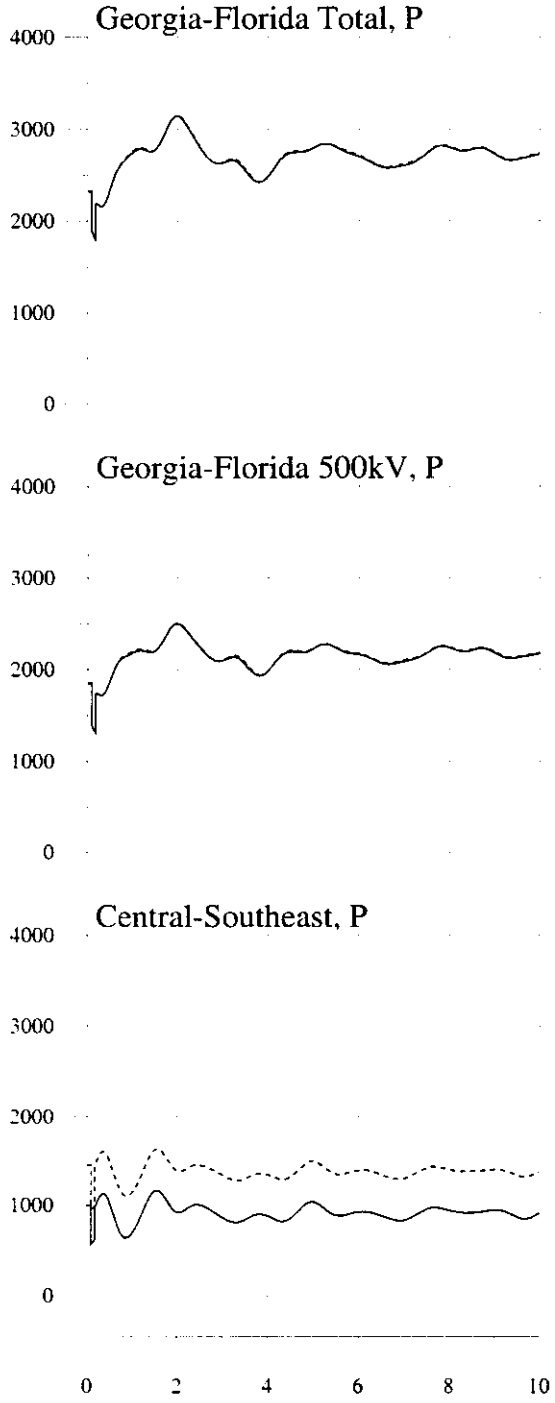


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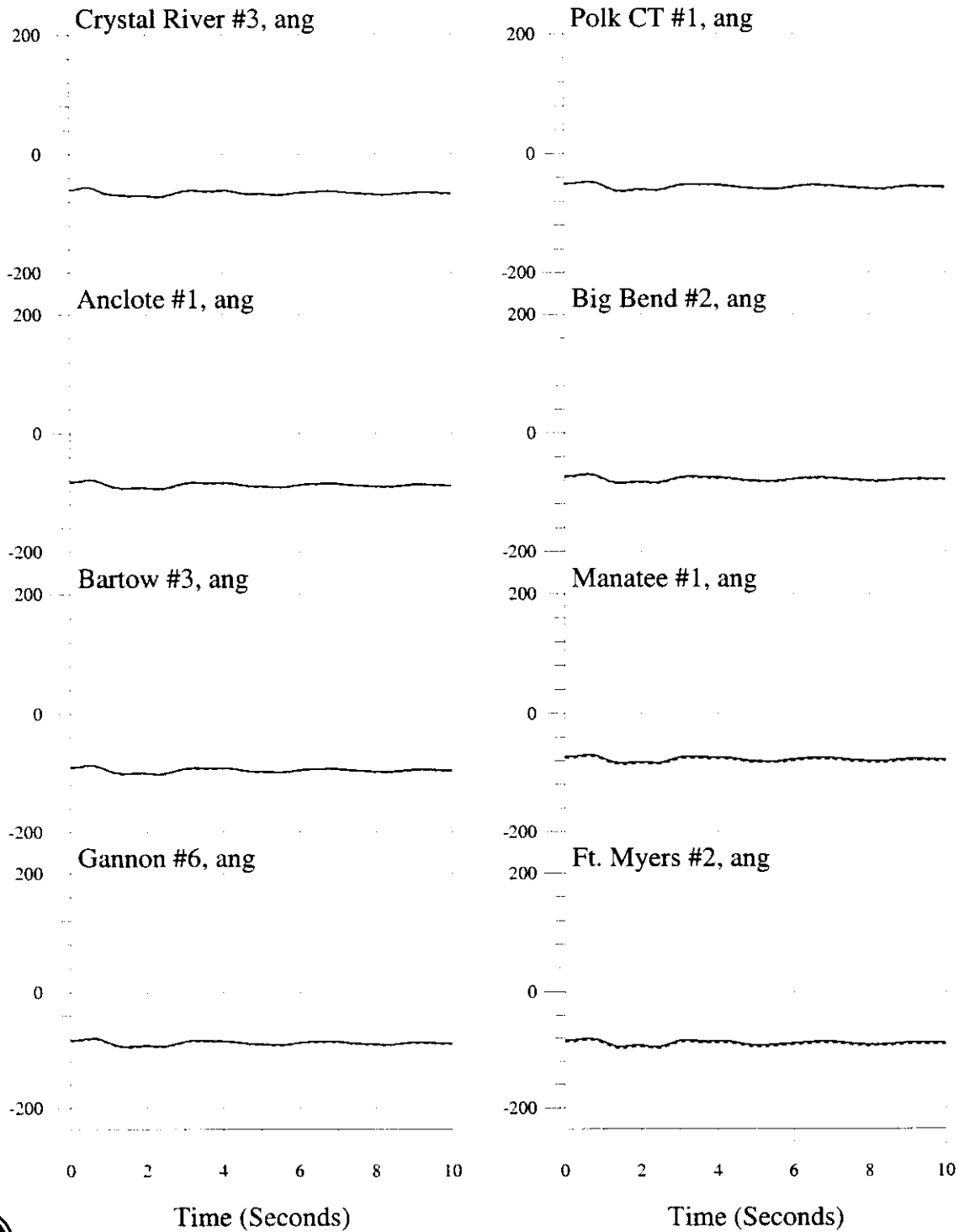
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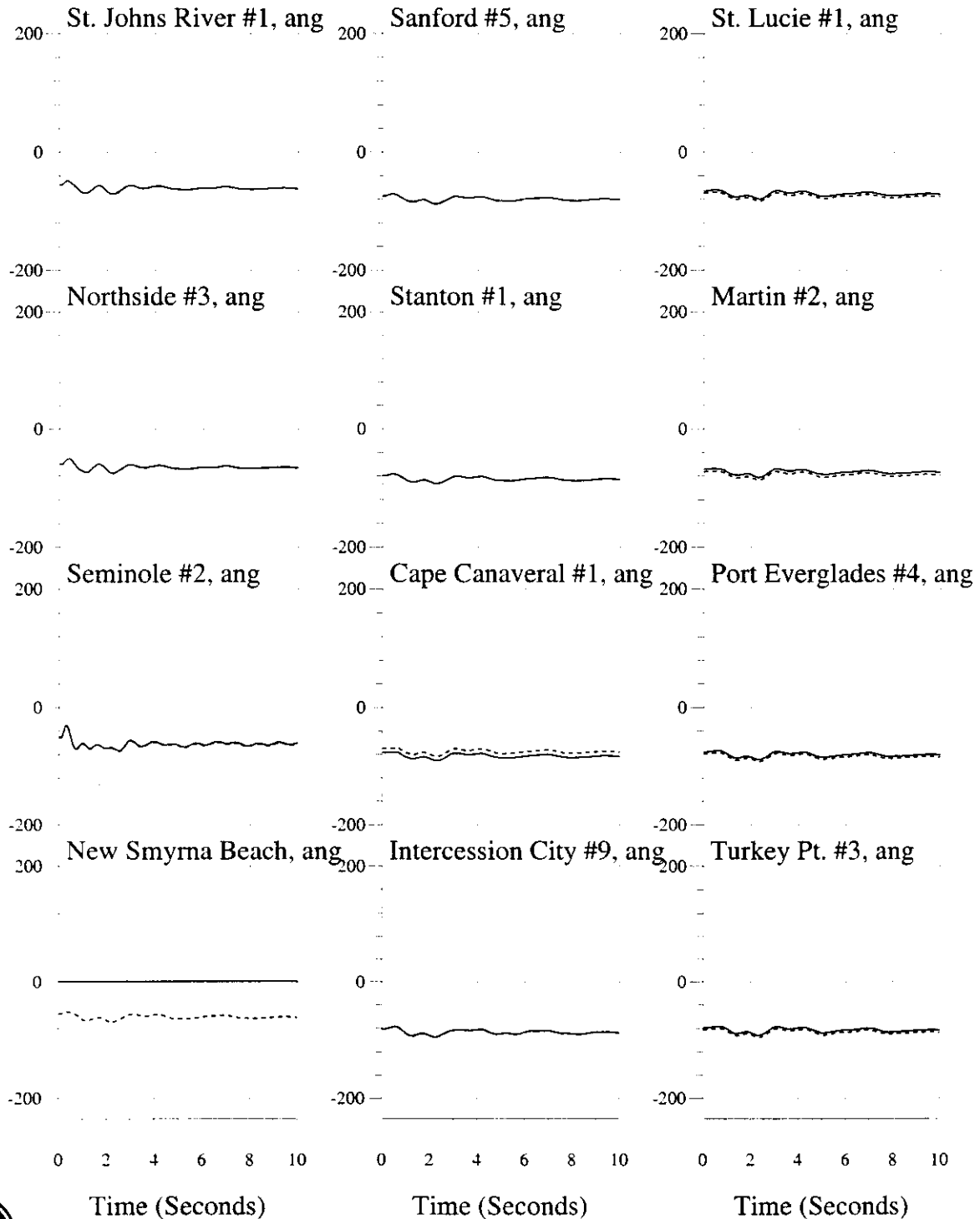
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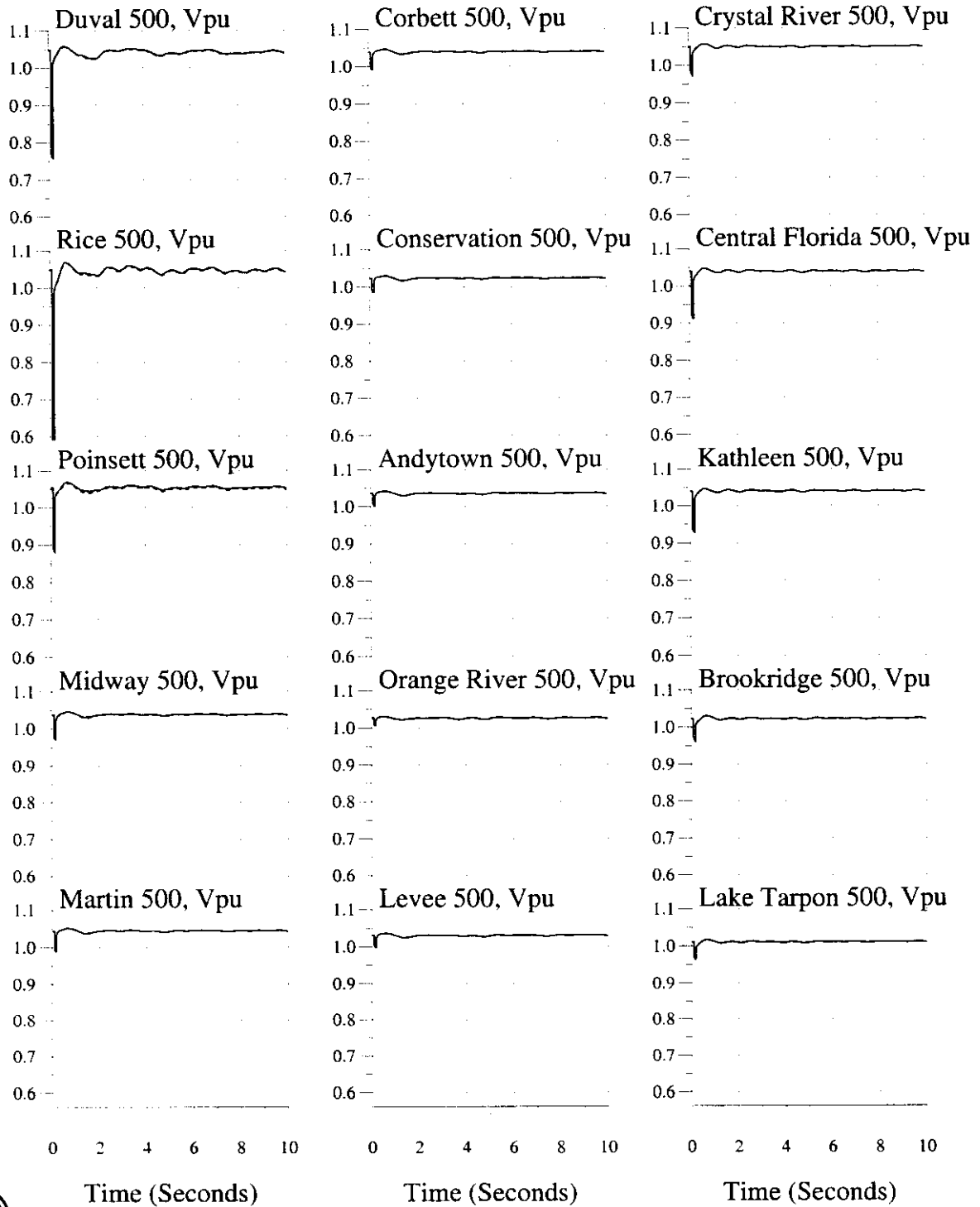
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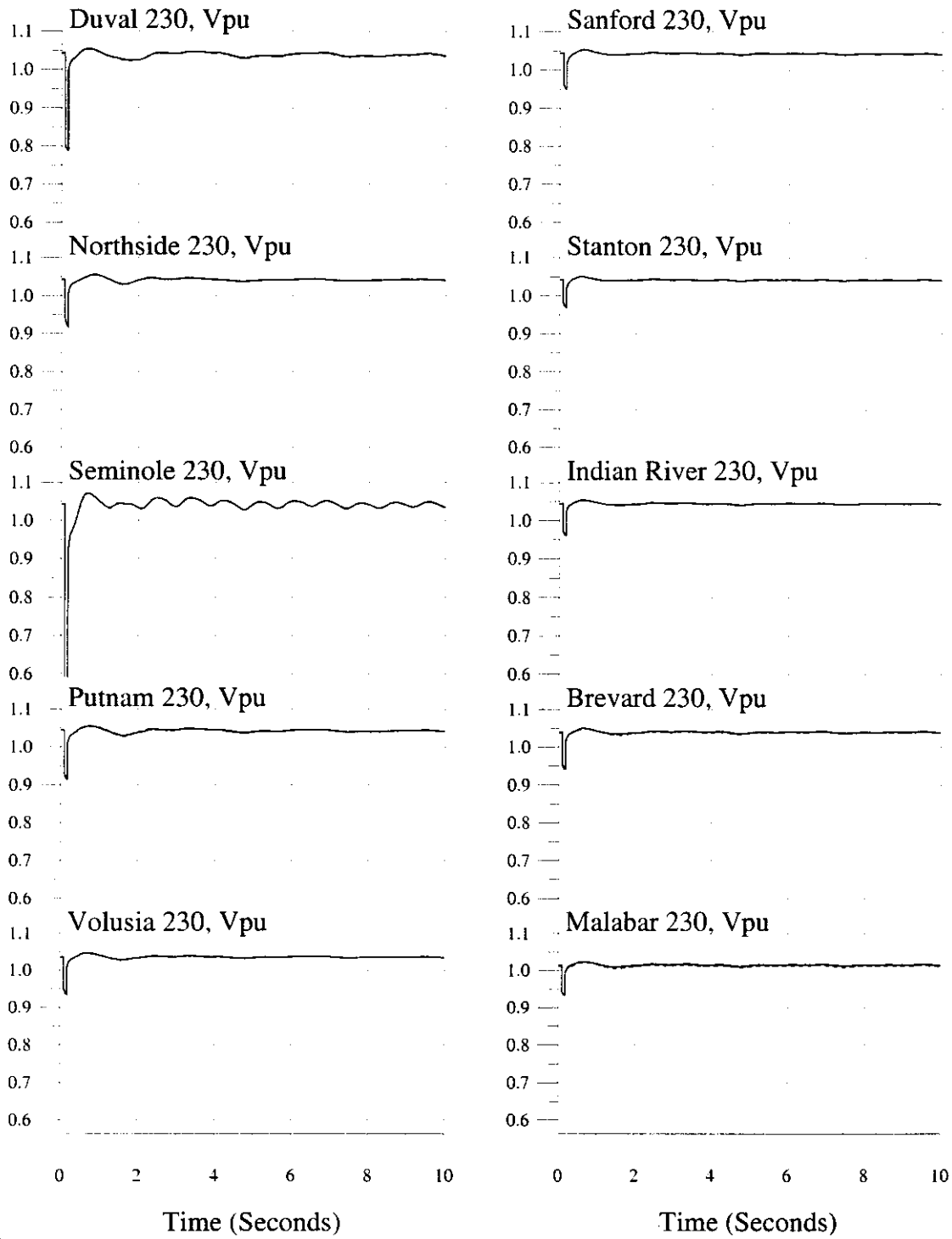
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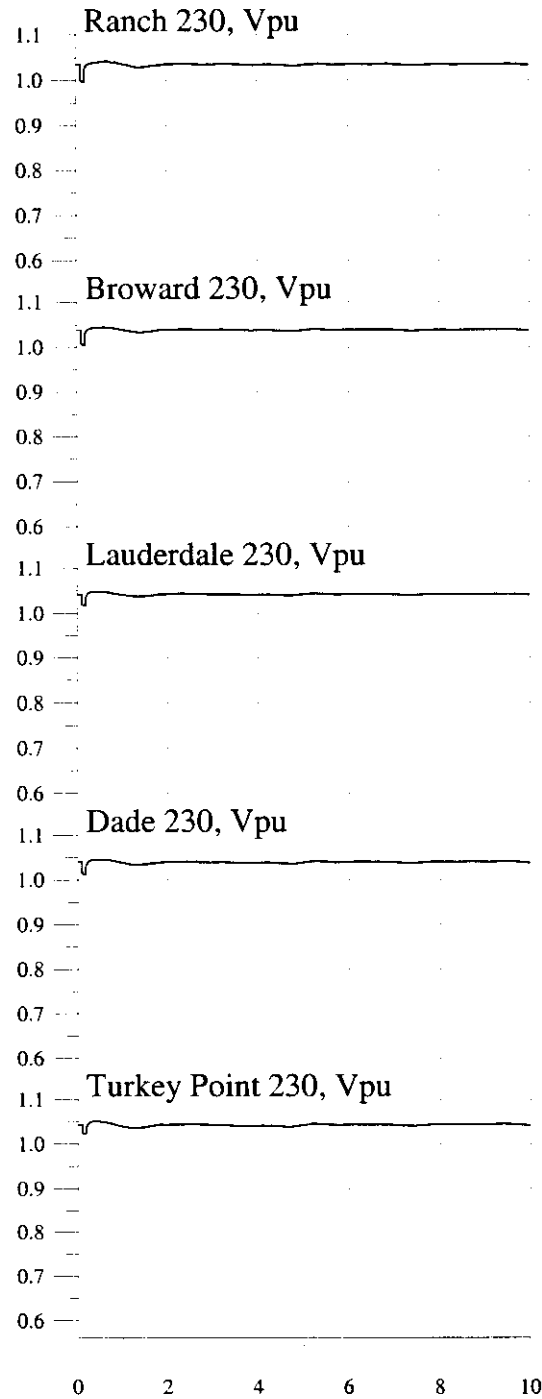
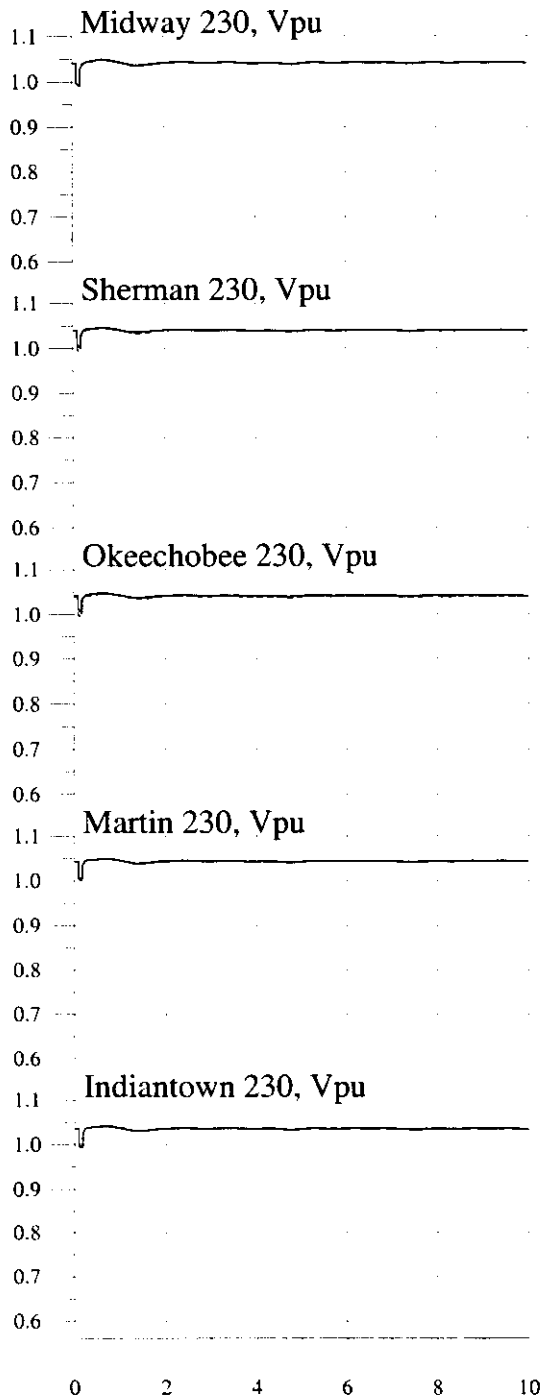
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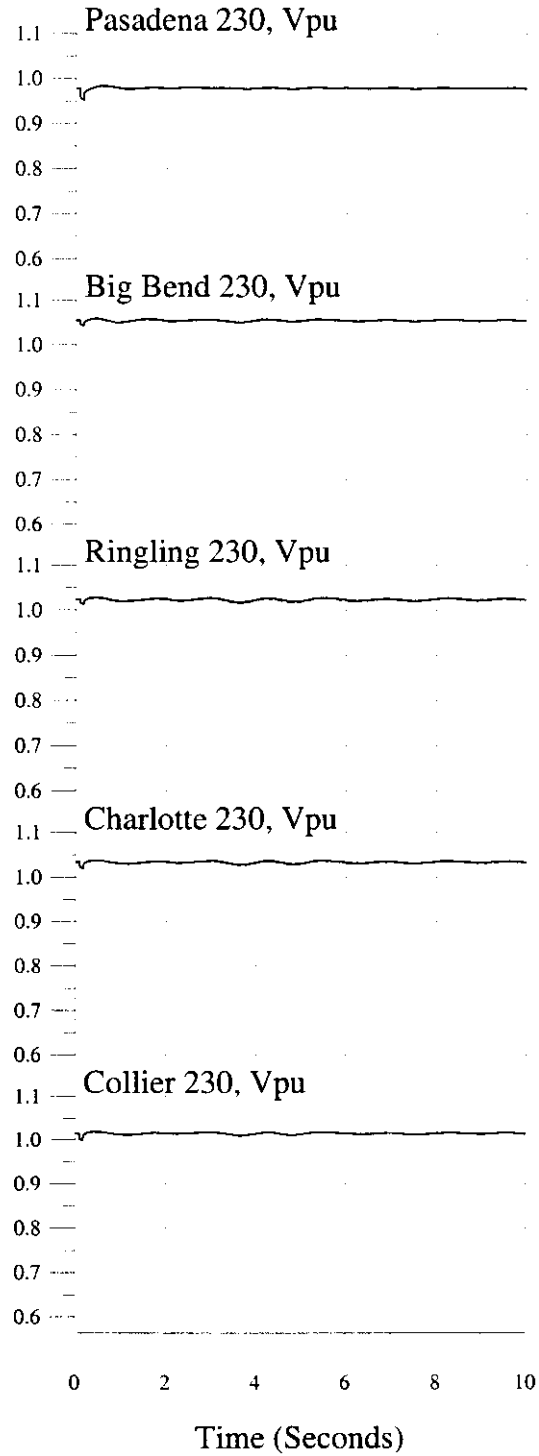
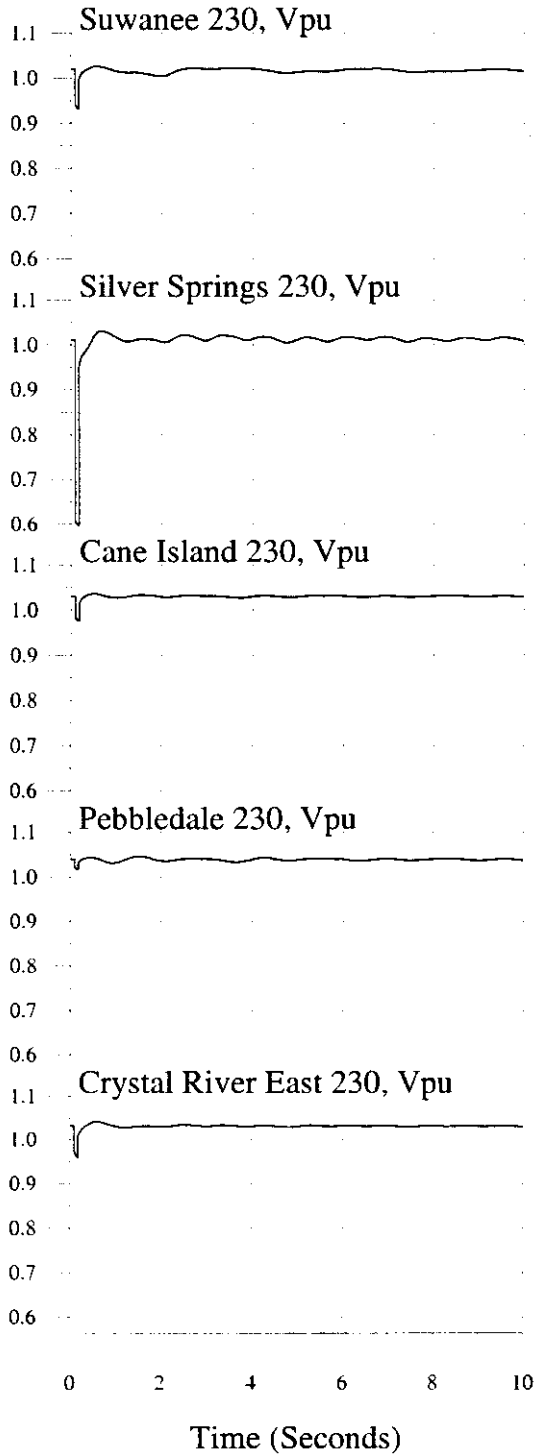
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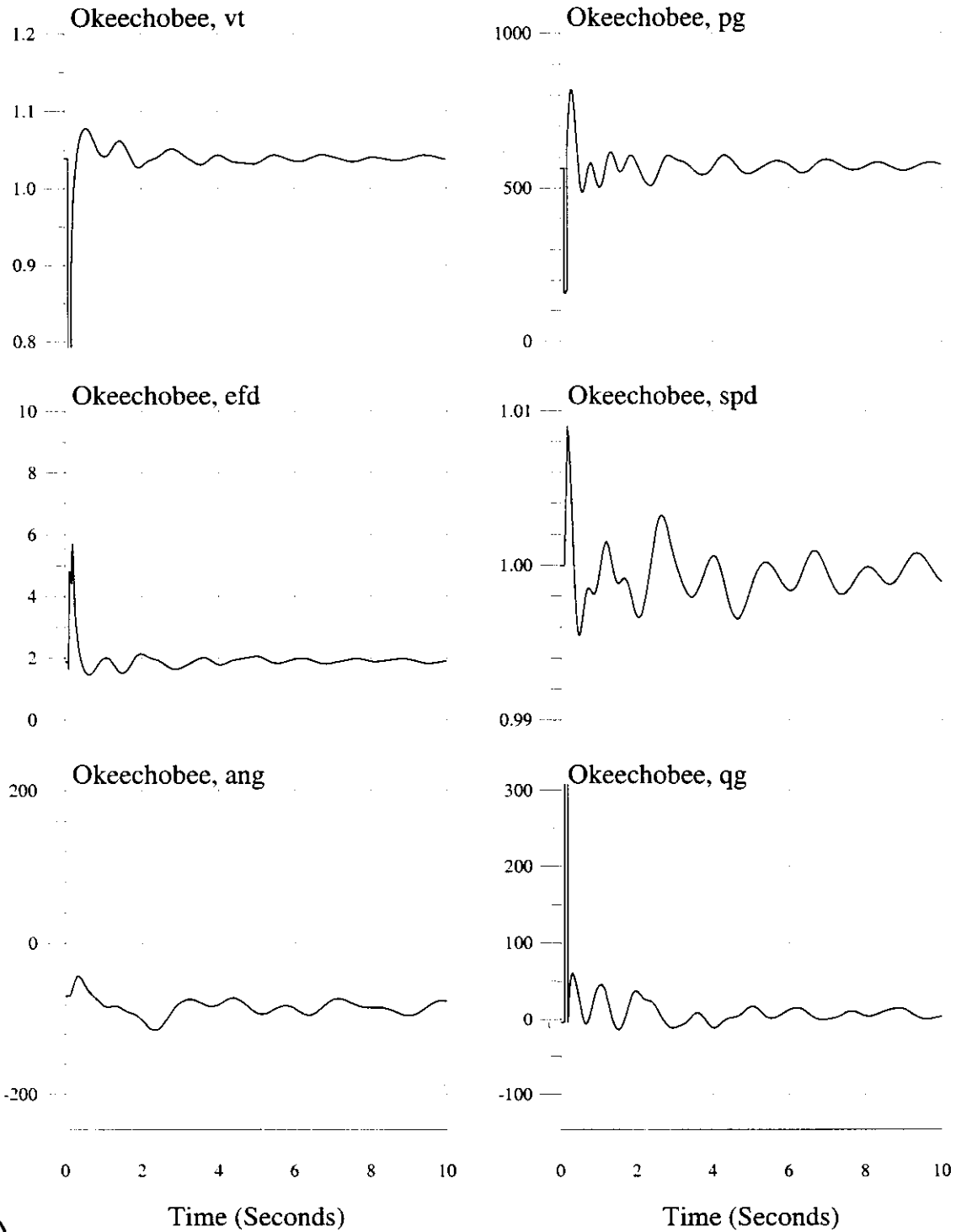


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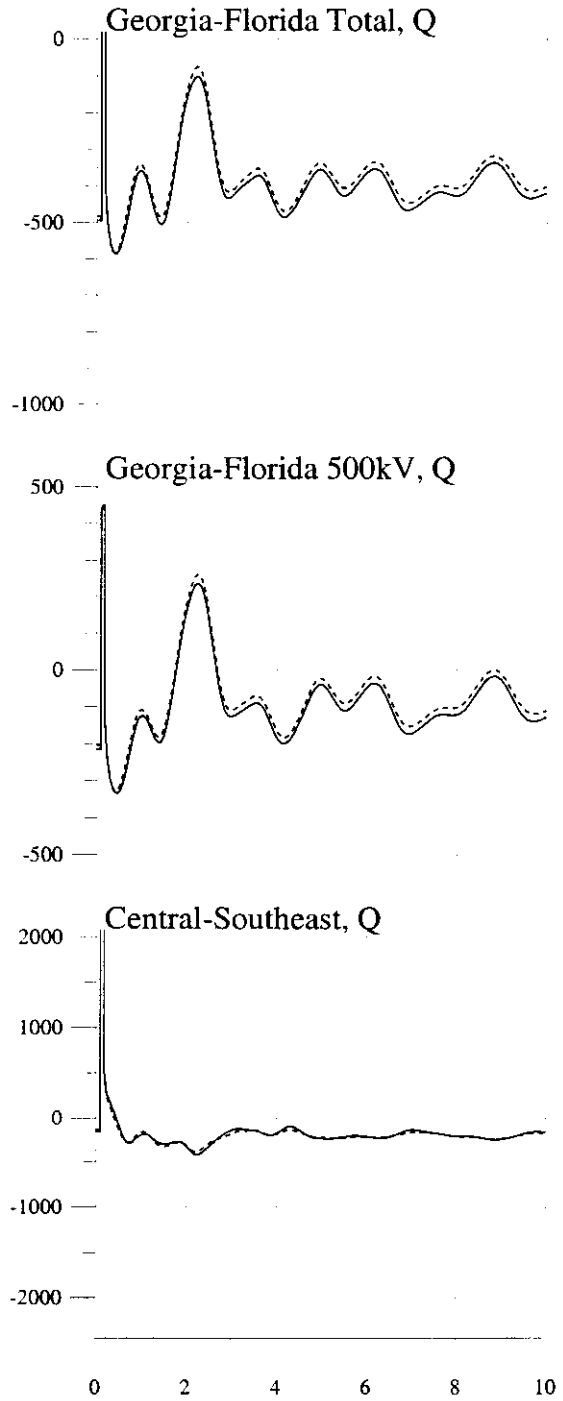
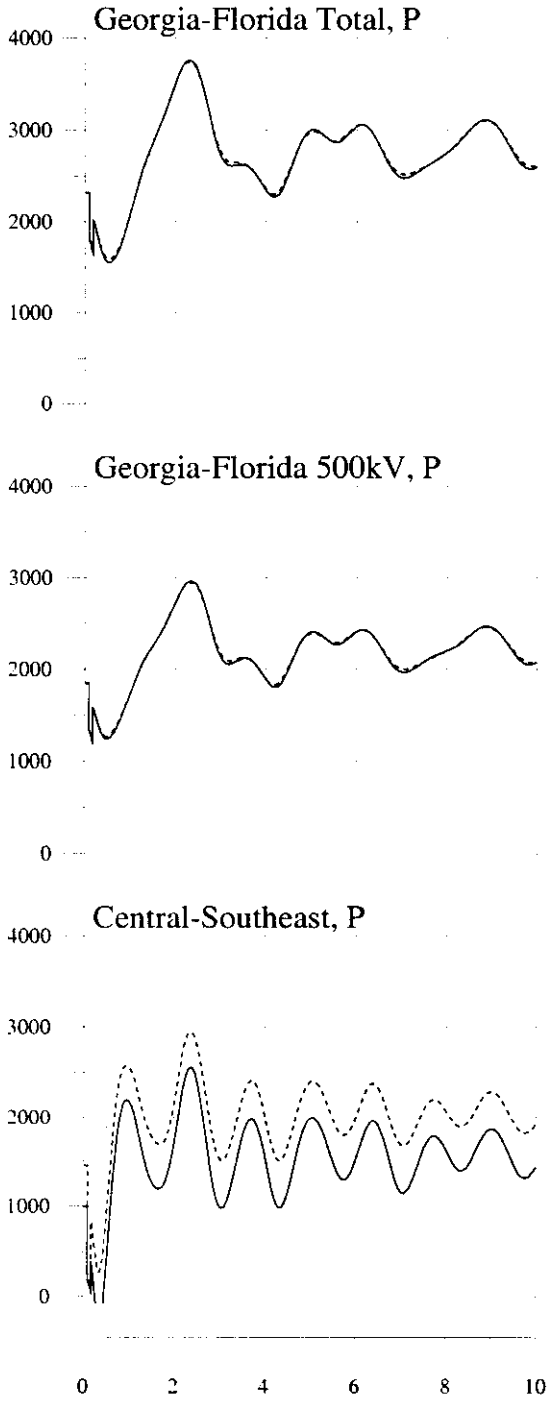




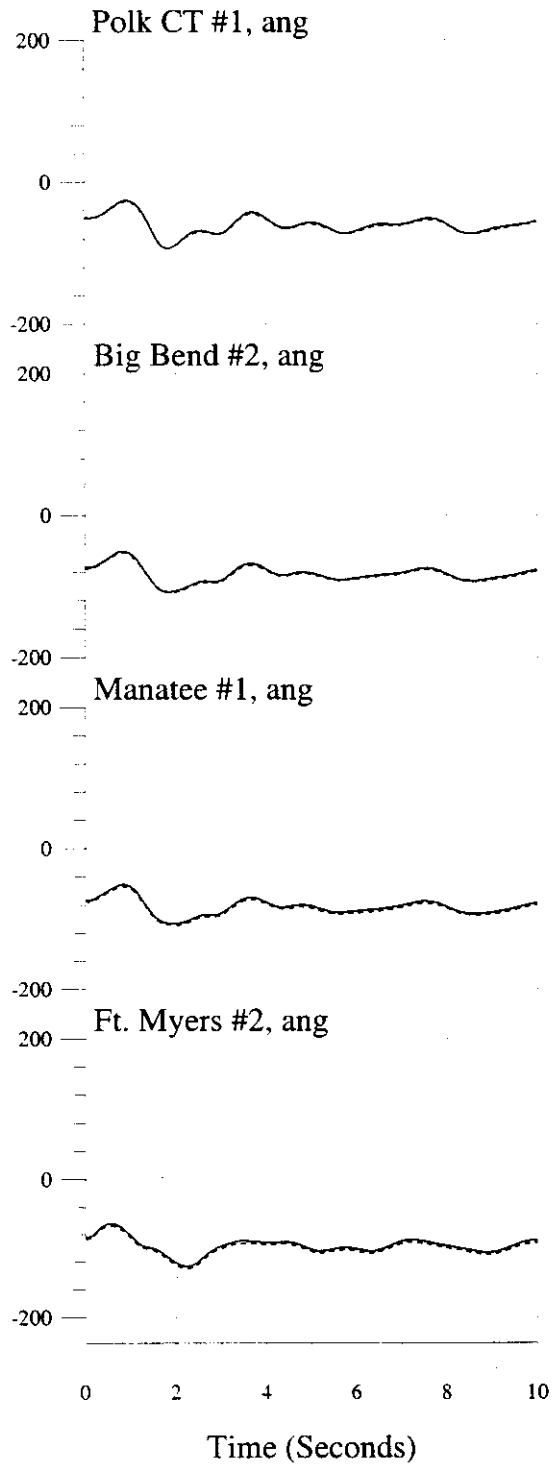
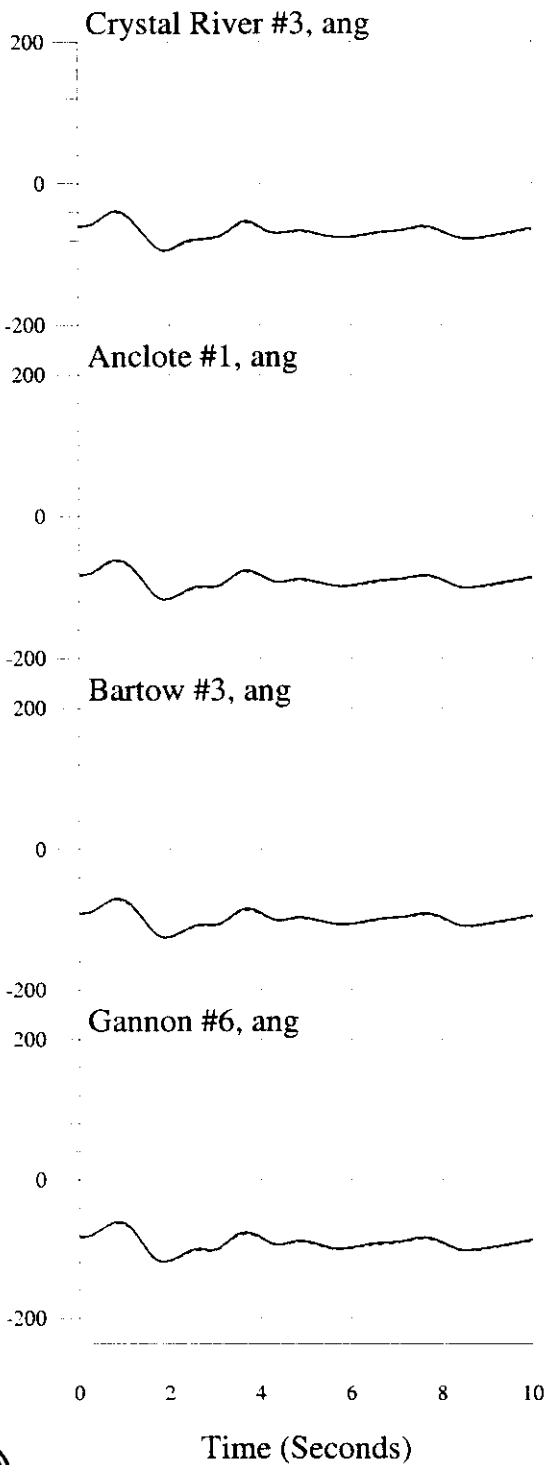
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
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 Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



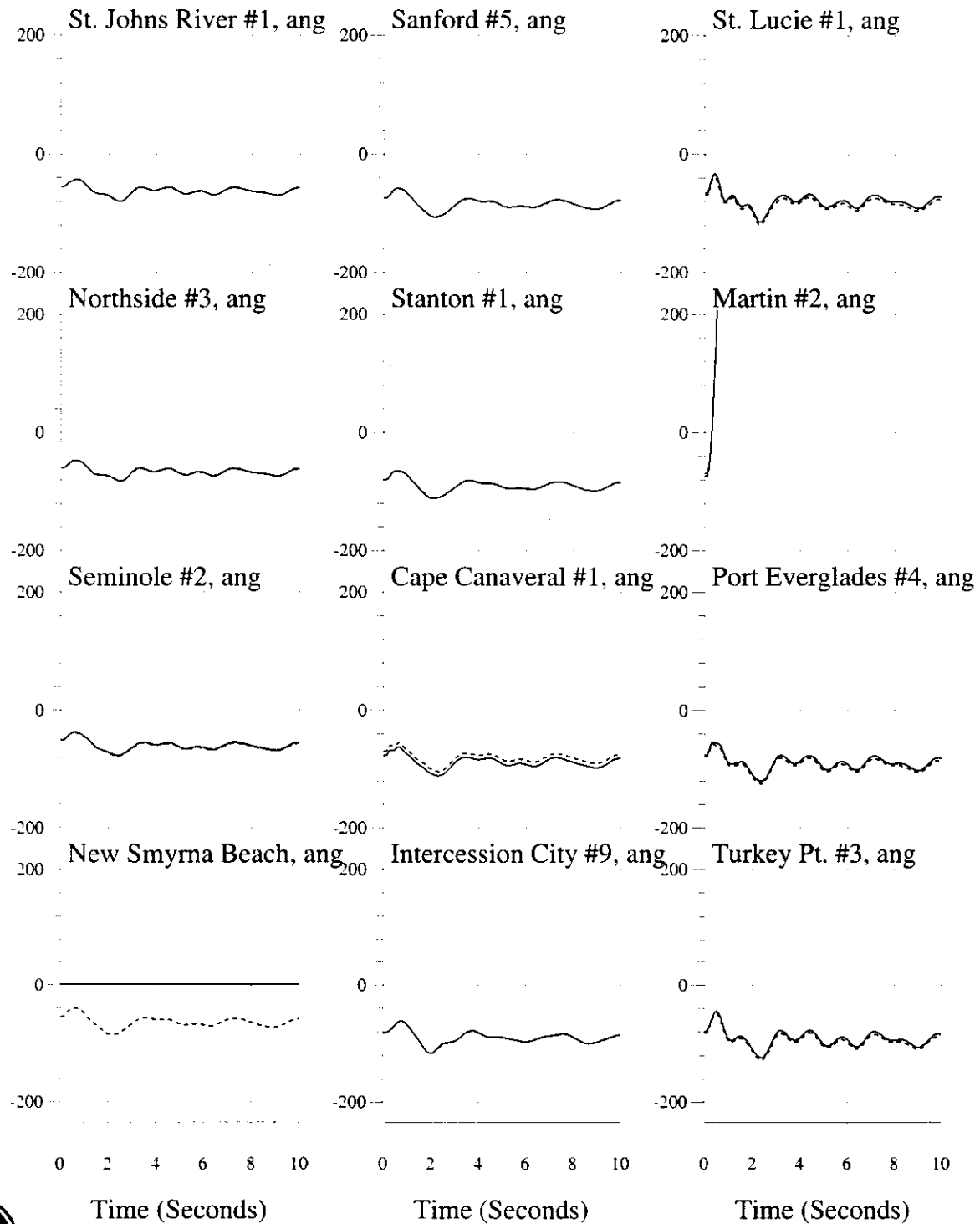
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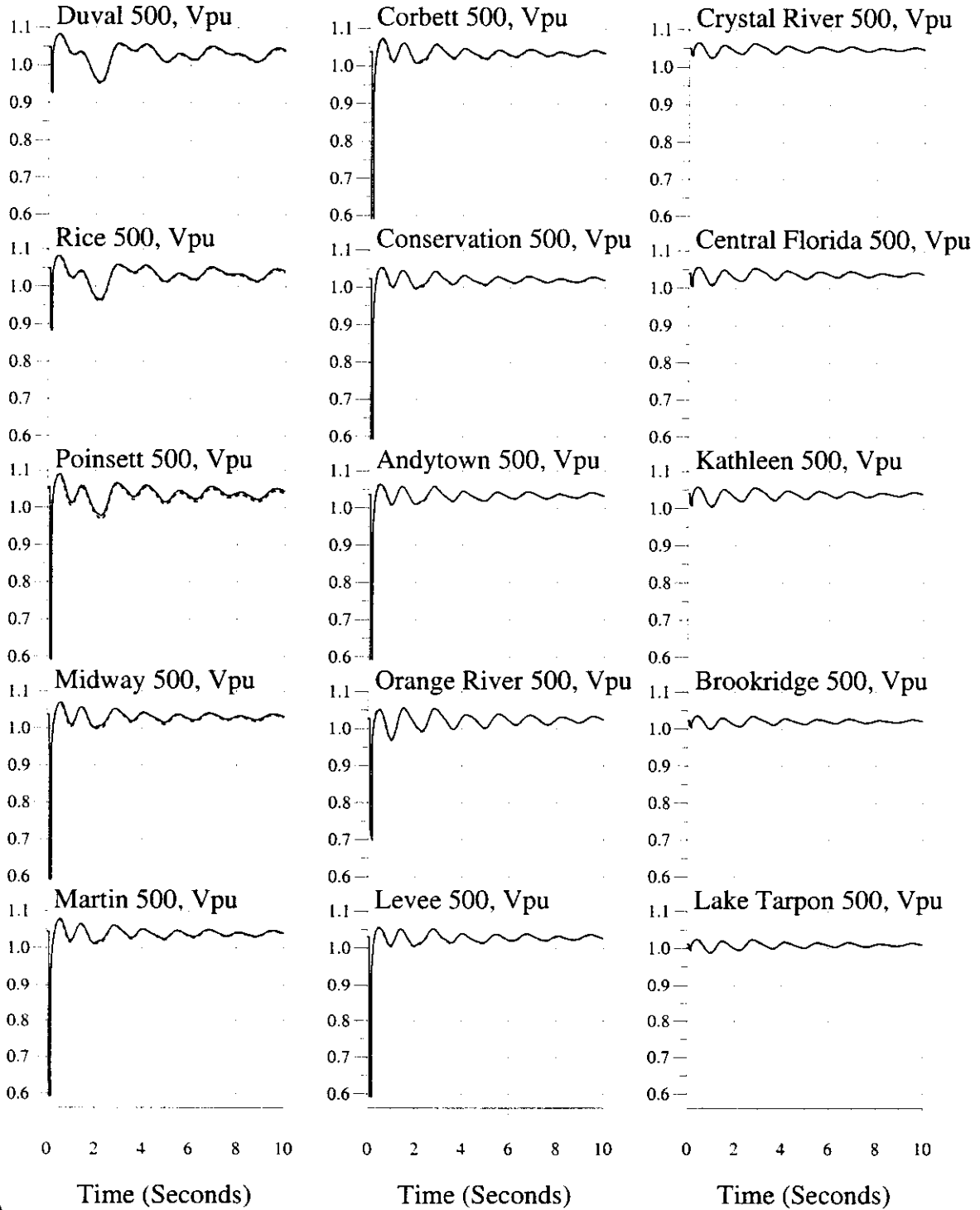
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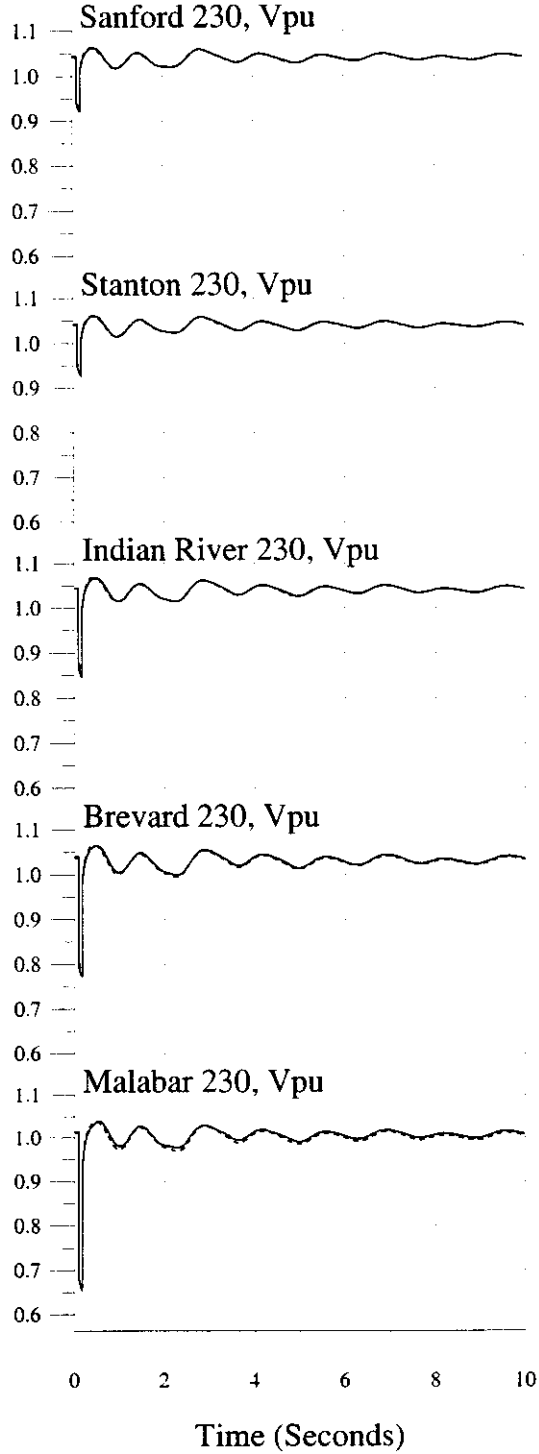
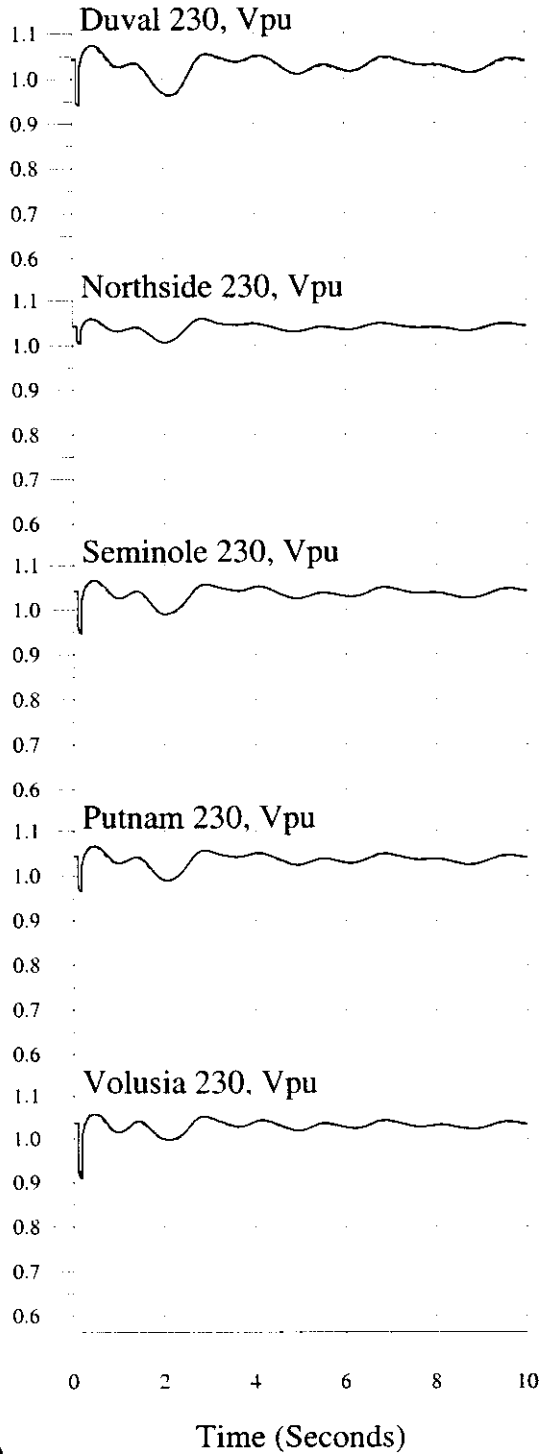
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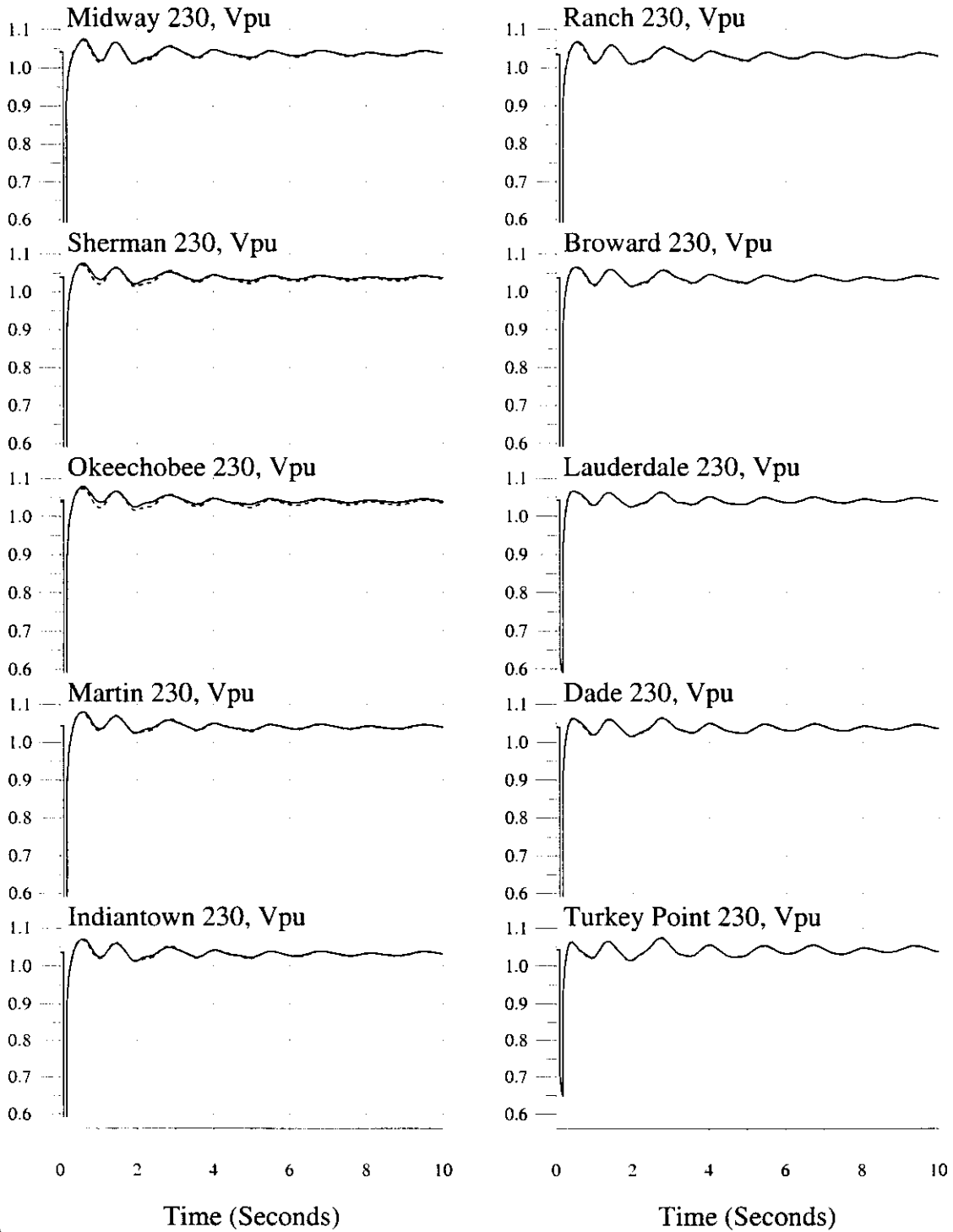
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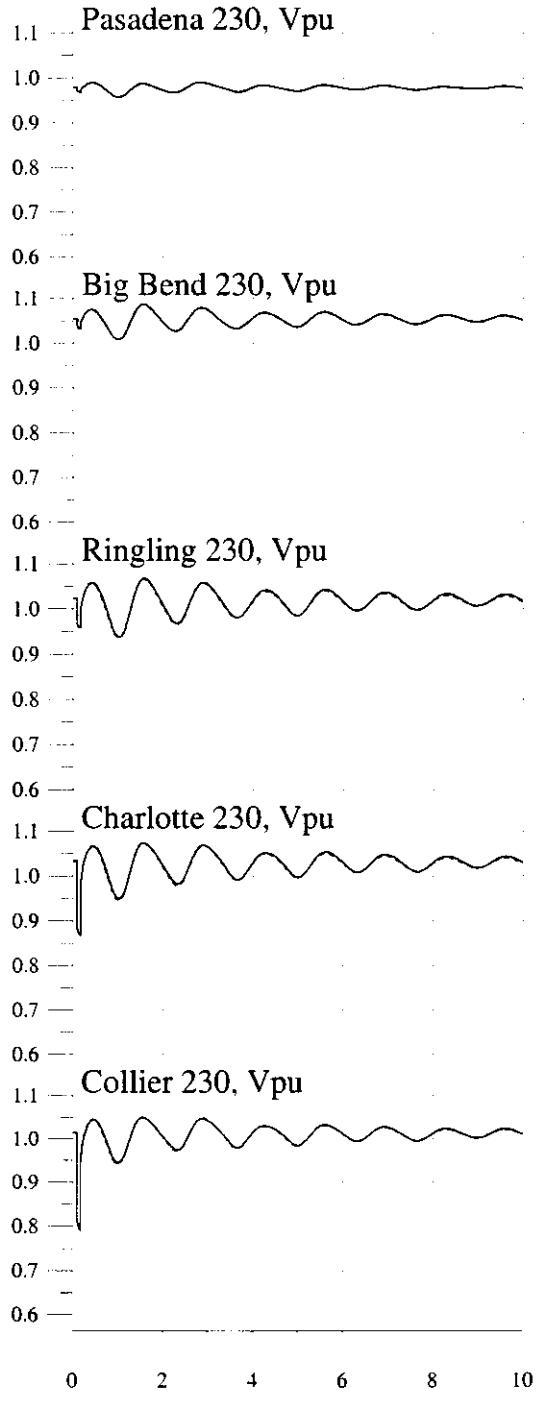
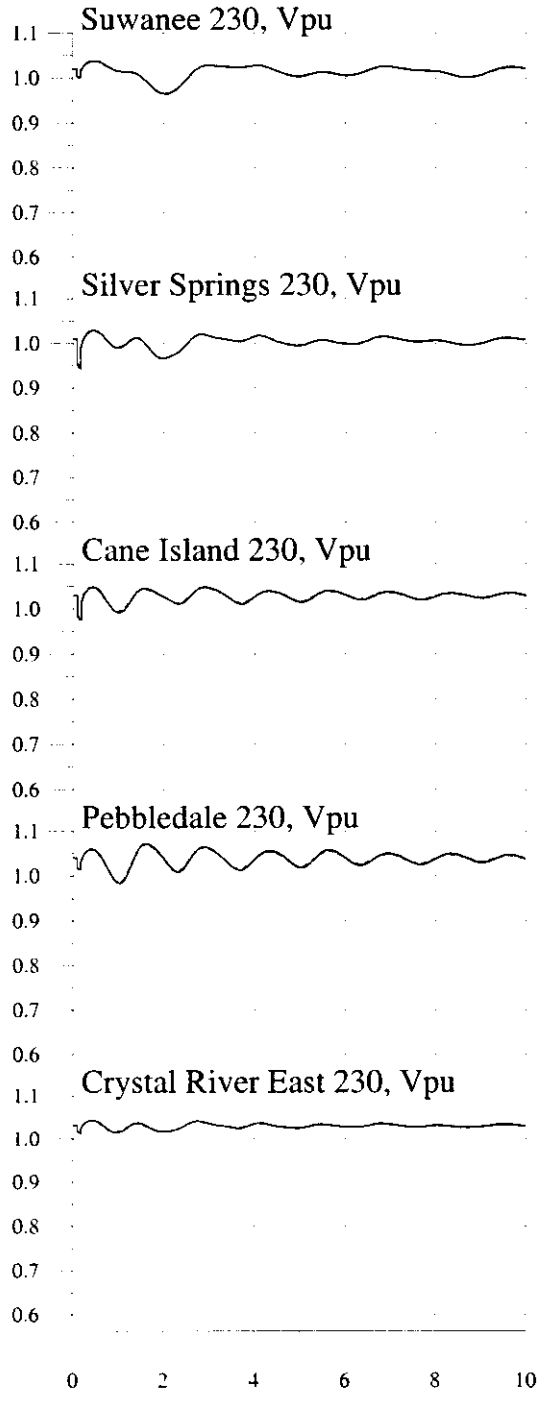
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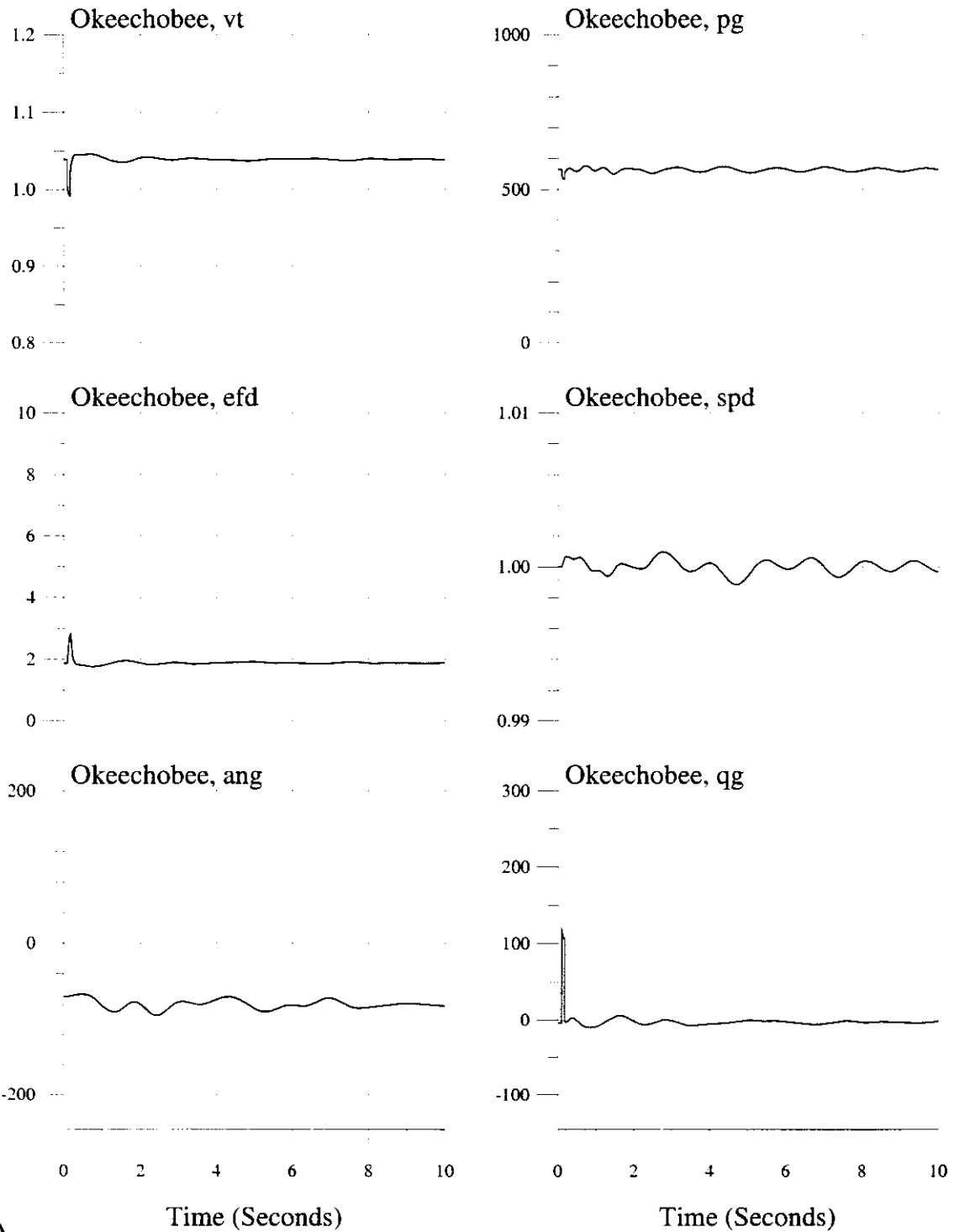


3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Martin #2 & GSU  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without

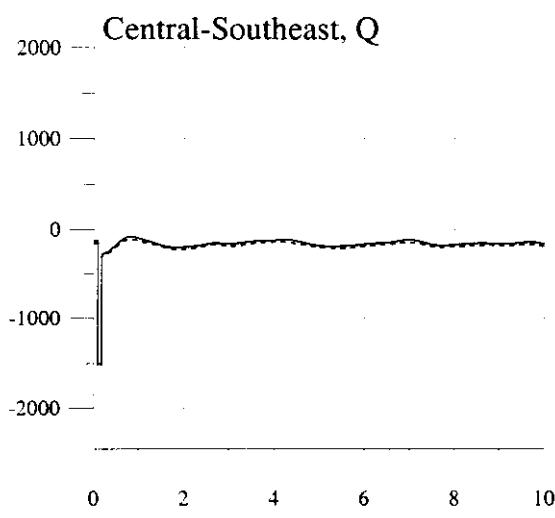
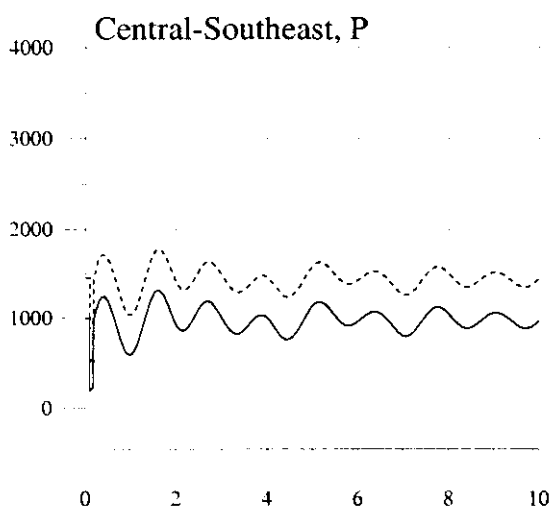
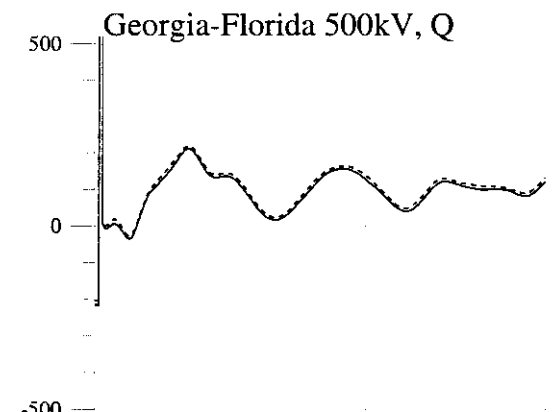
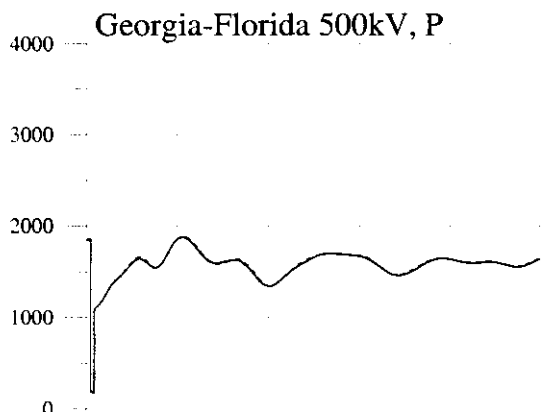
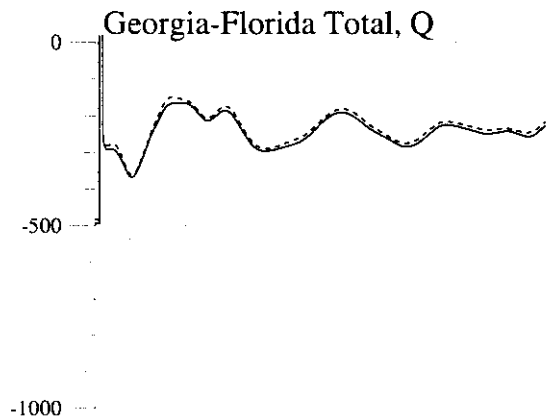
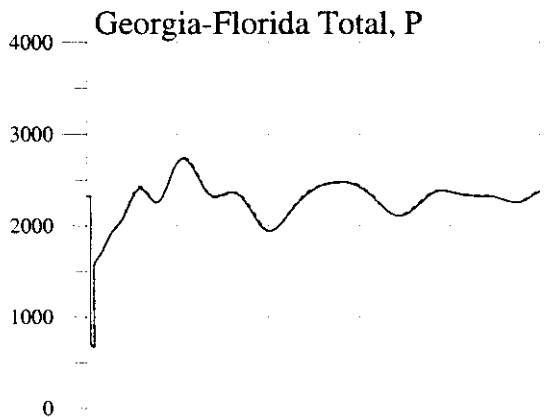




3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

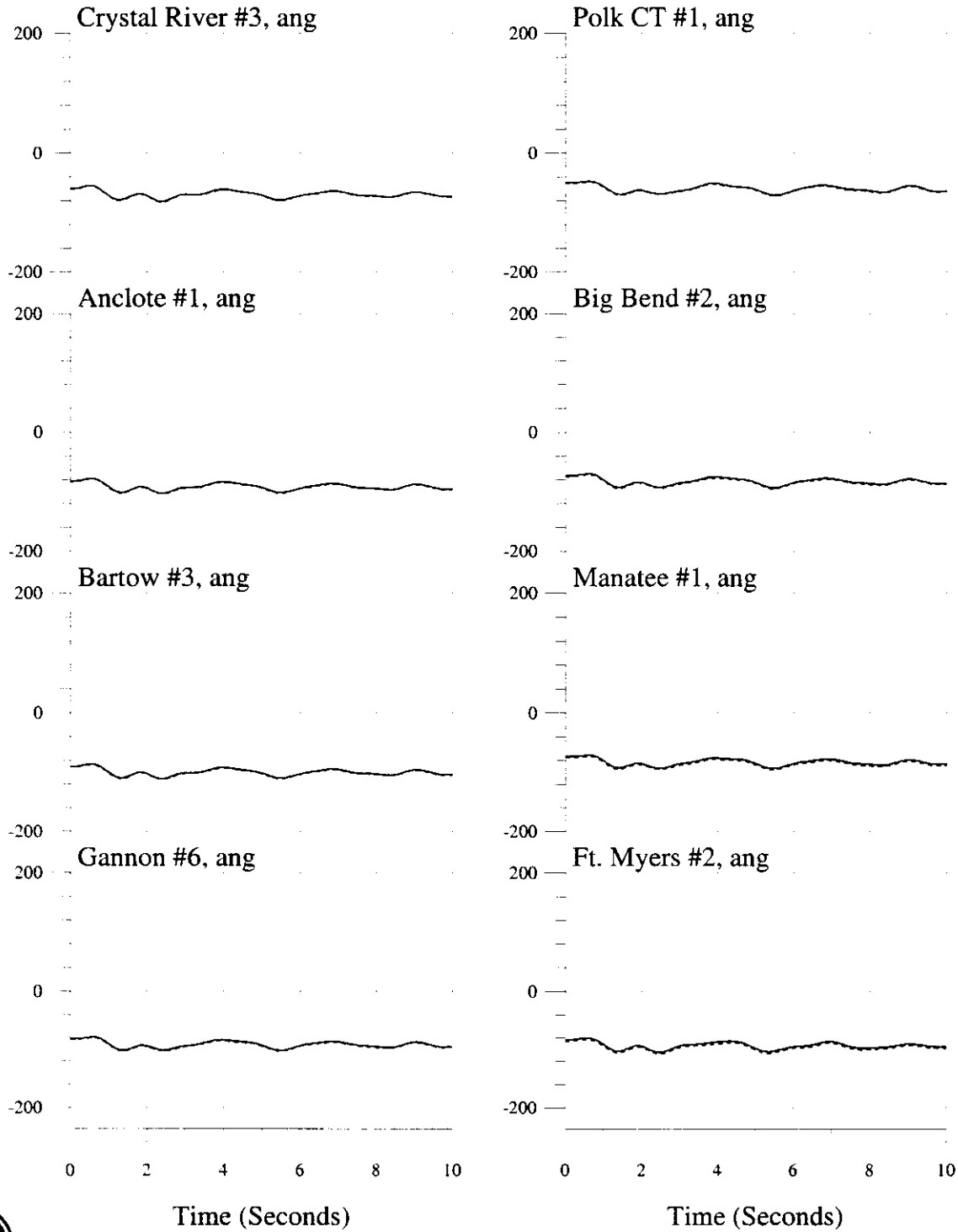


Time (Seconds)

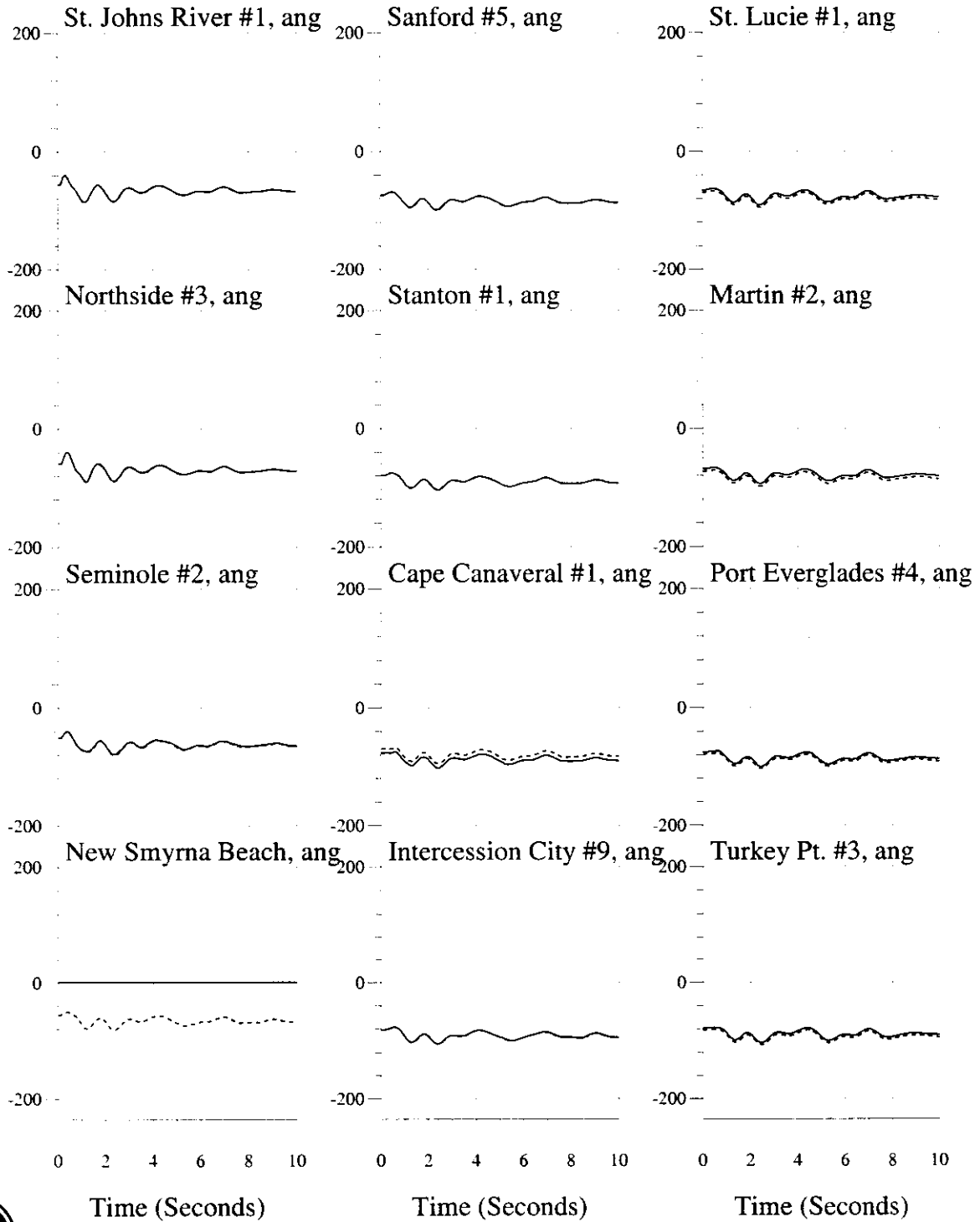
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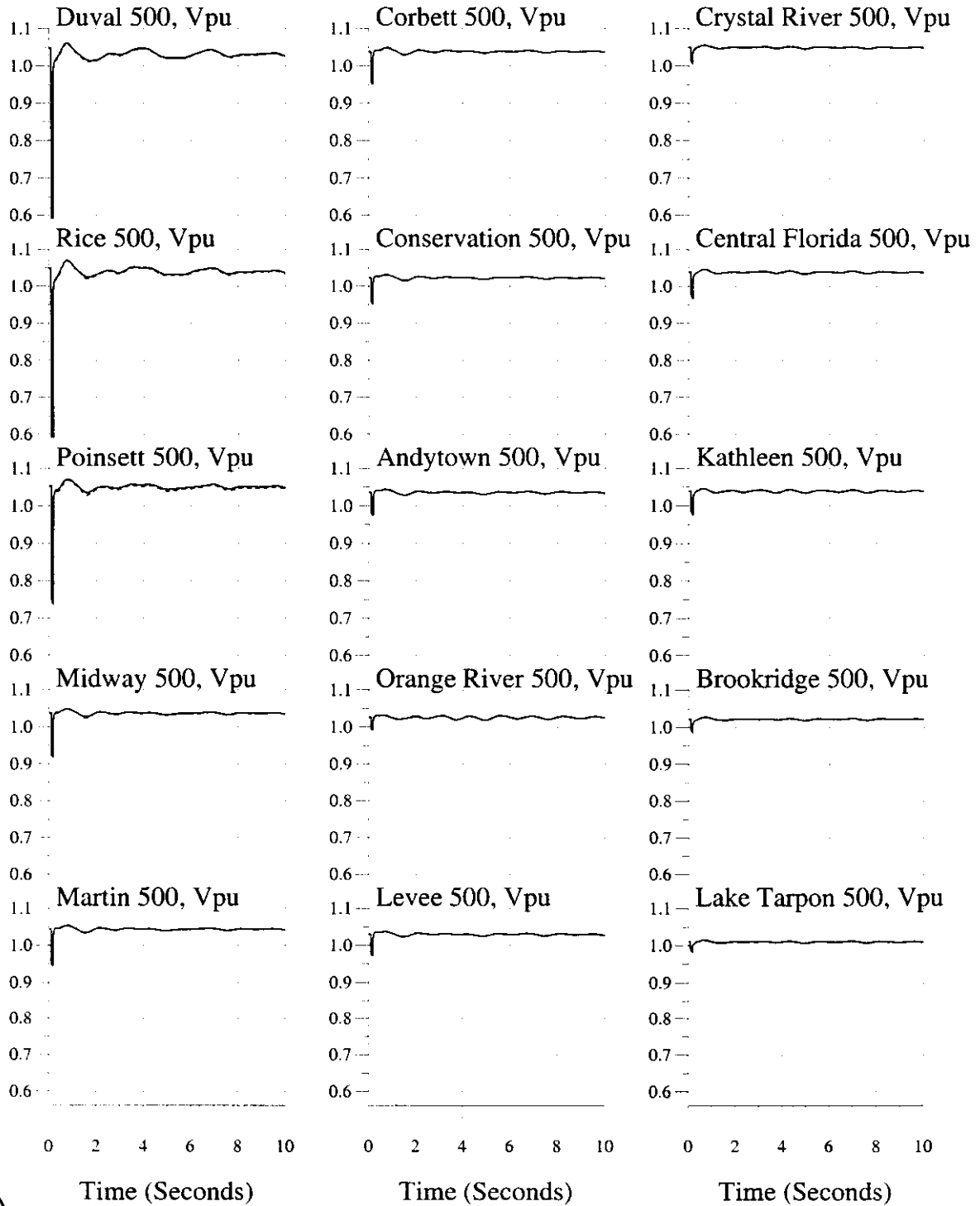
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



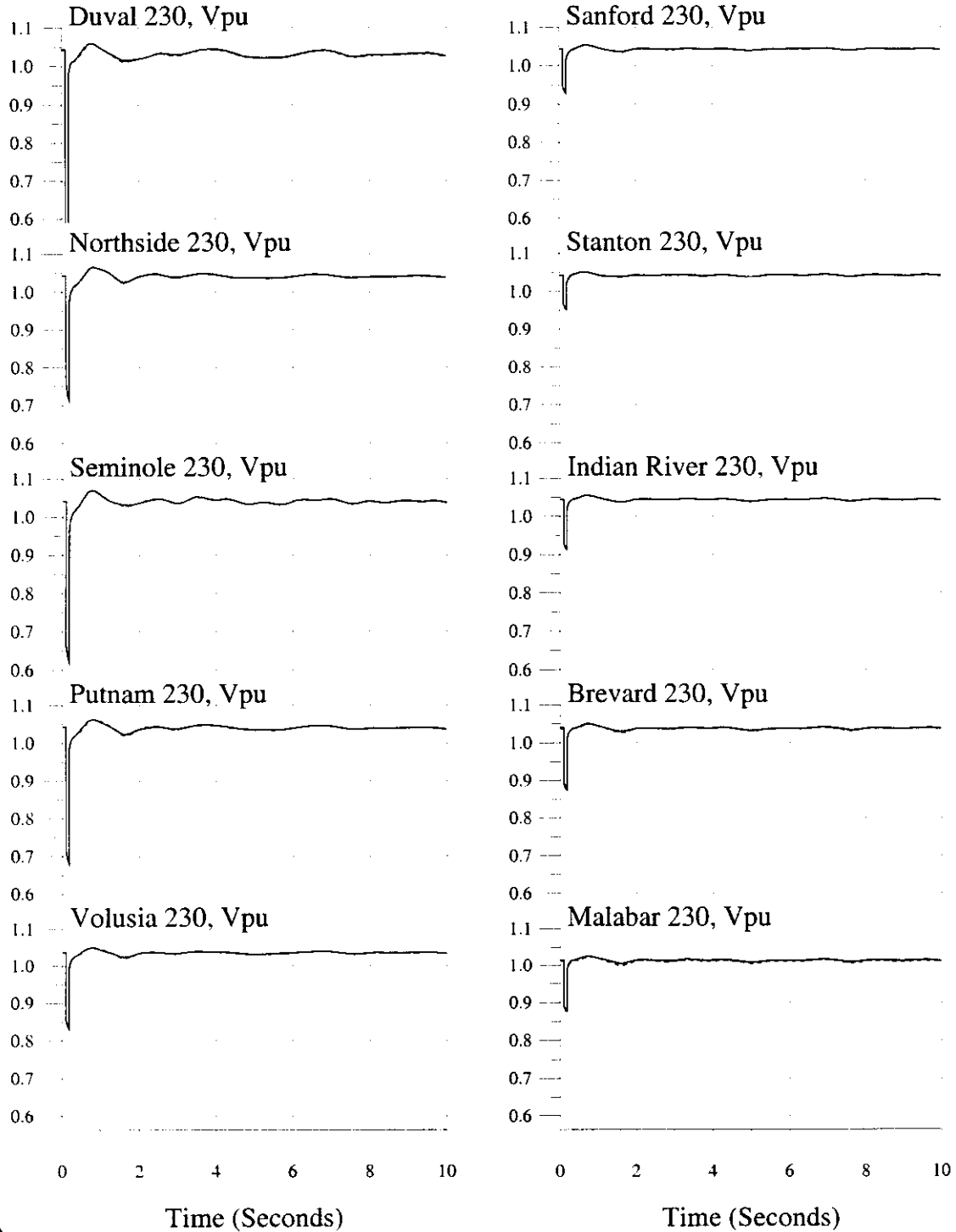
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



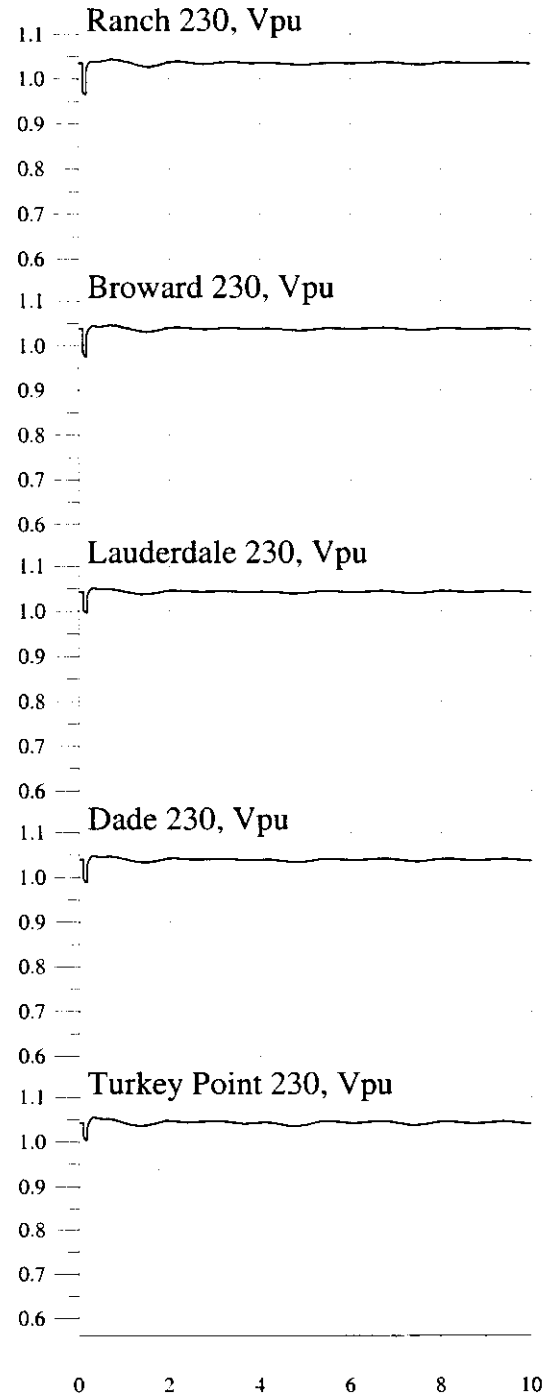
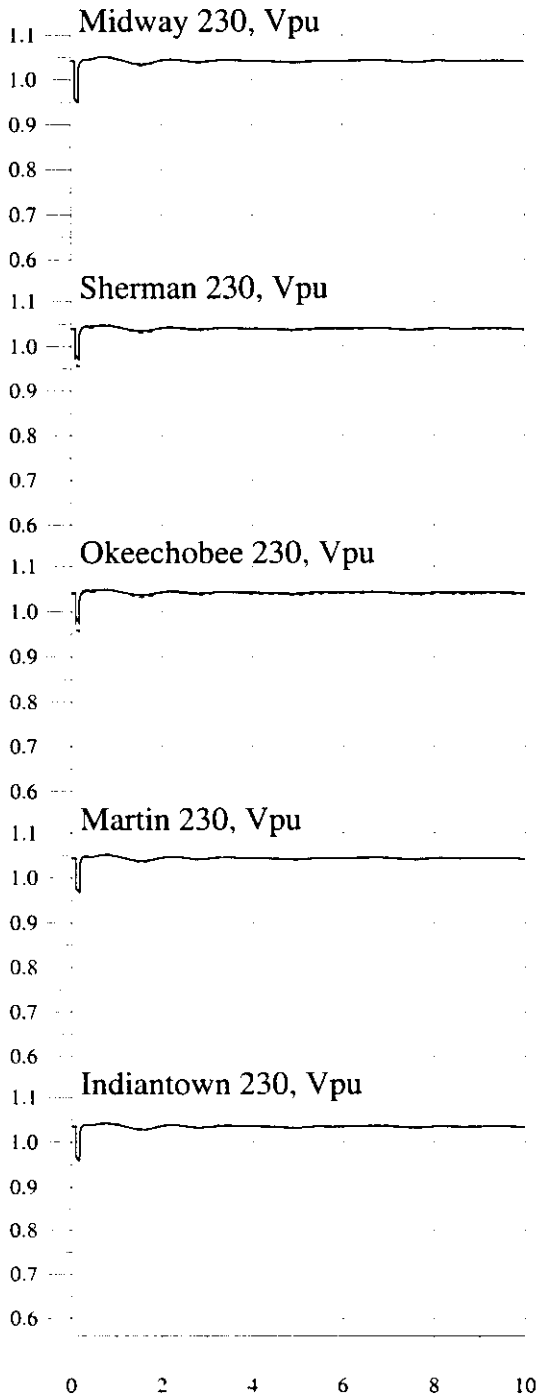
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



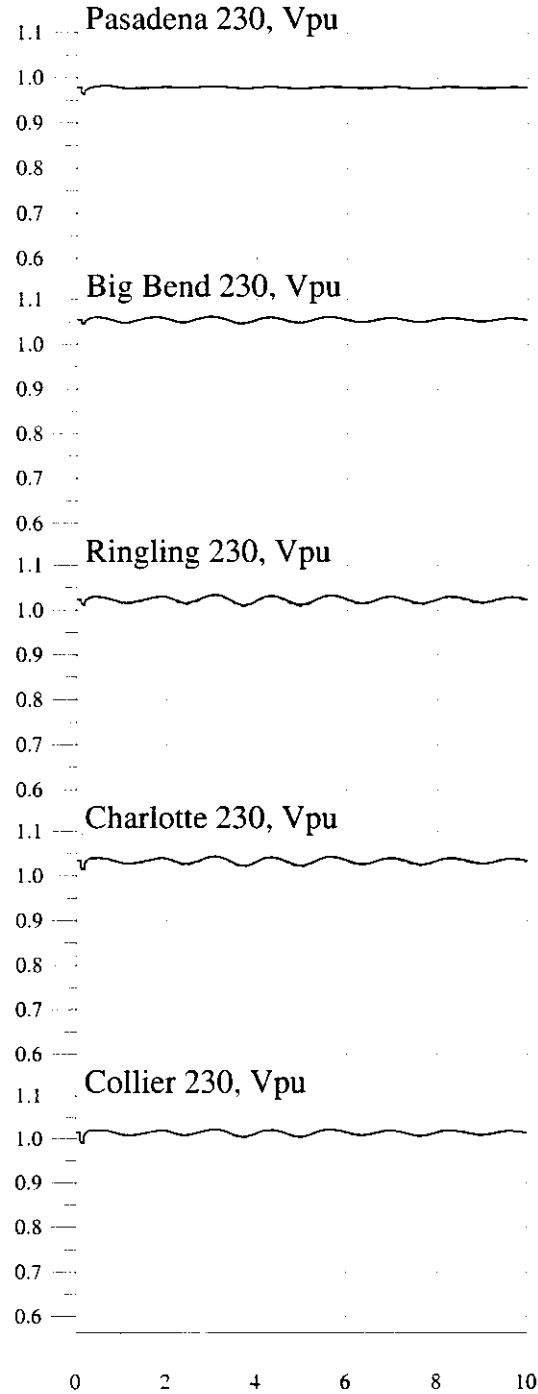
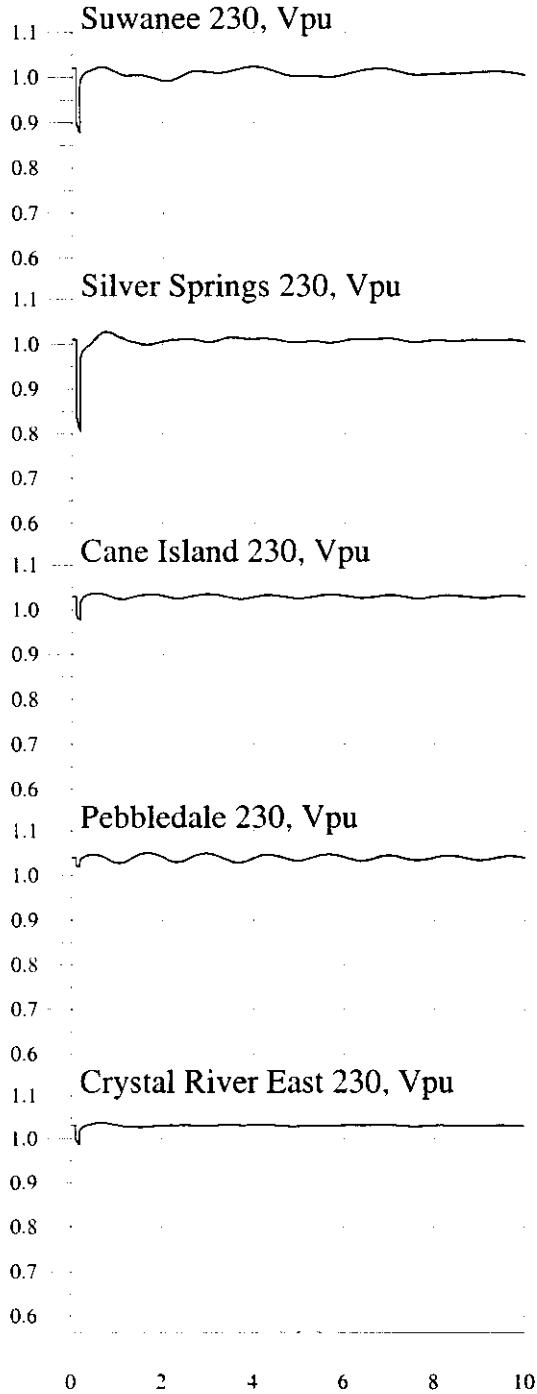
3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

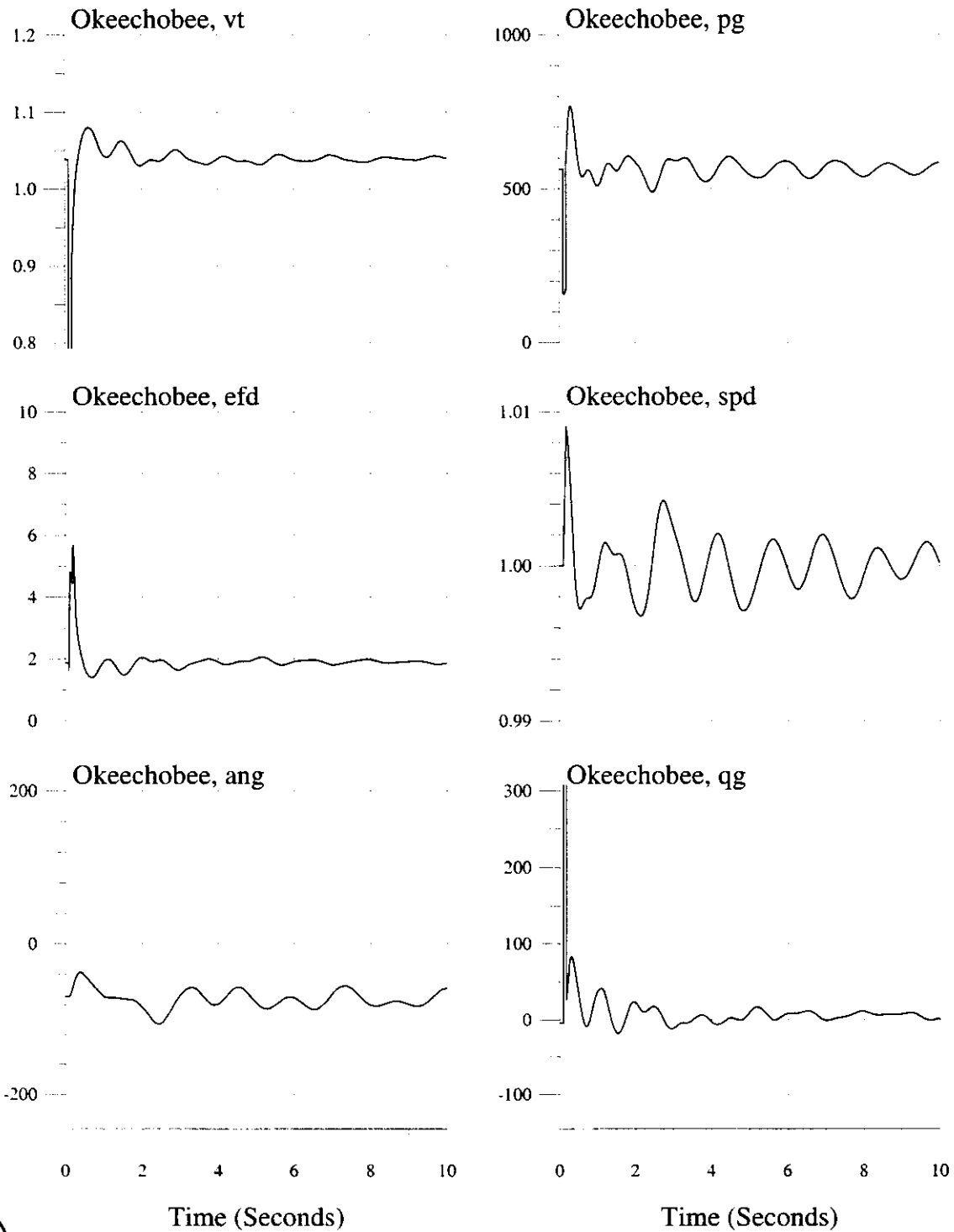


3-phase, 5-cycle Fault at Duval 500kV Bus, Trip Thalmann-Duval 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

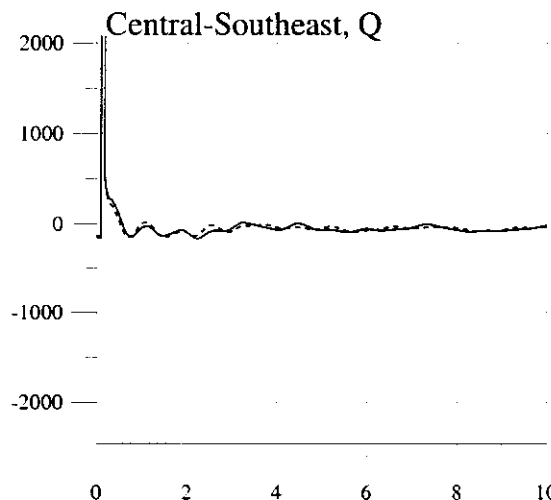
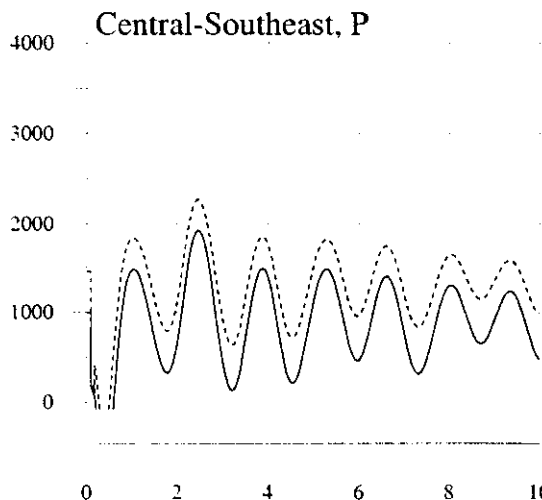
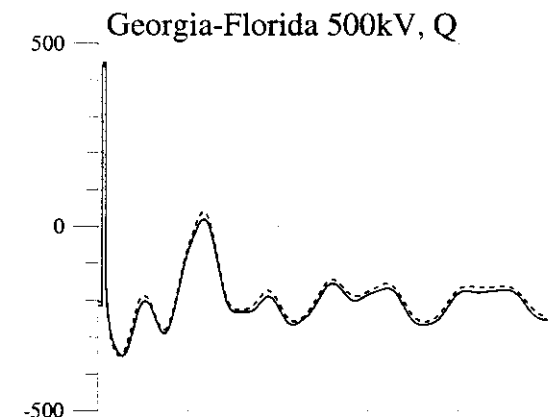
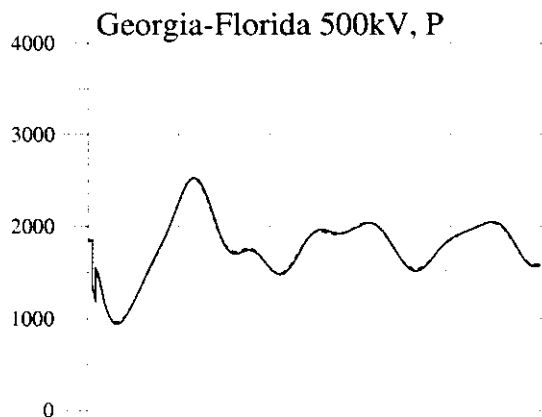
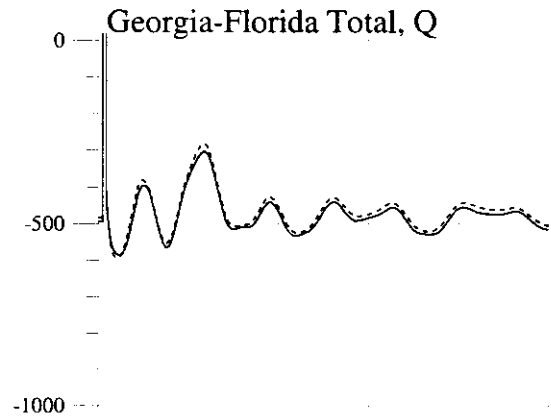
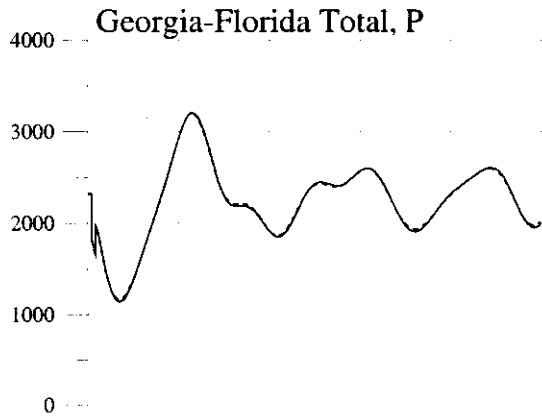




3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

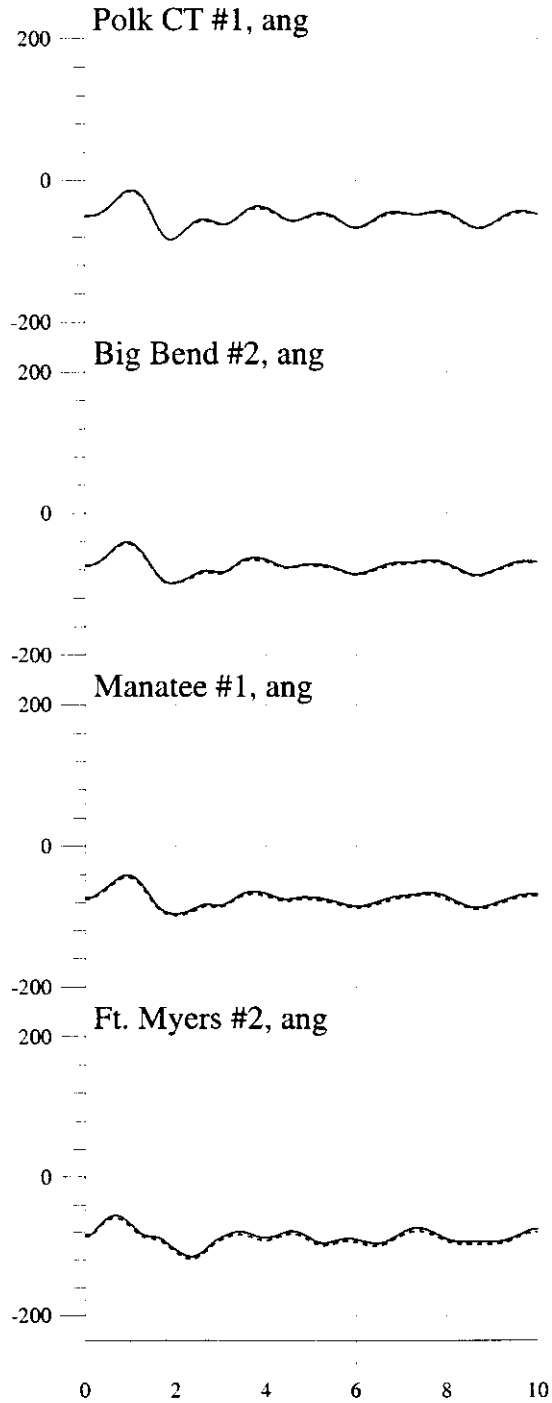
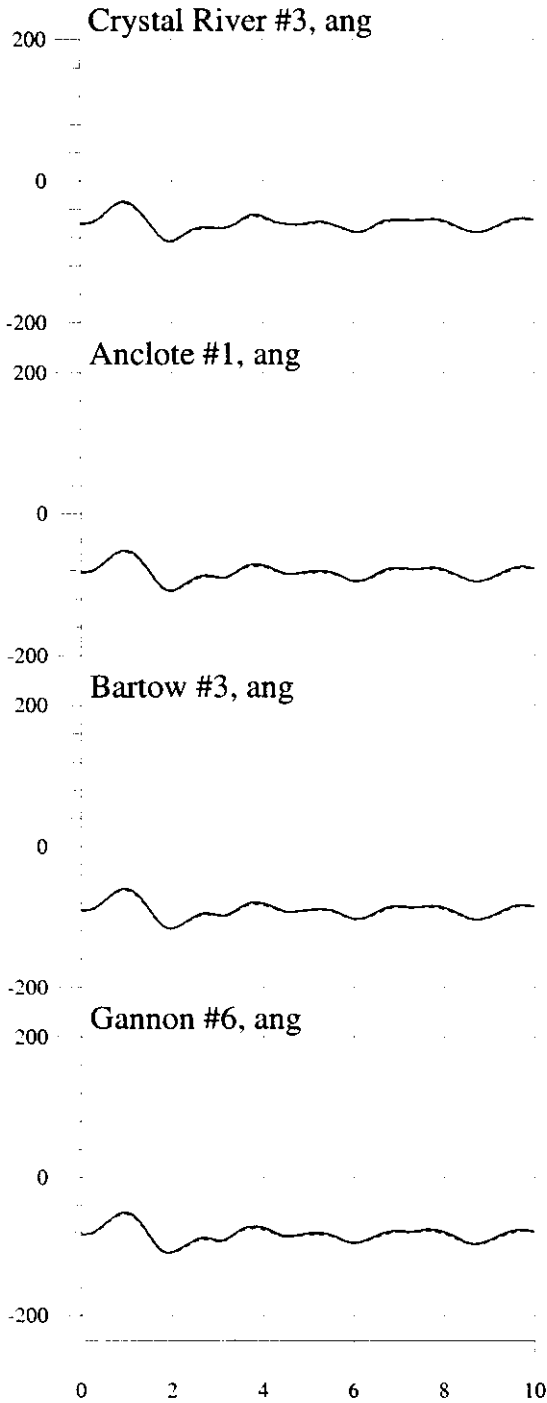


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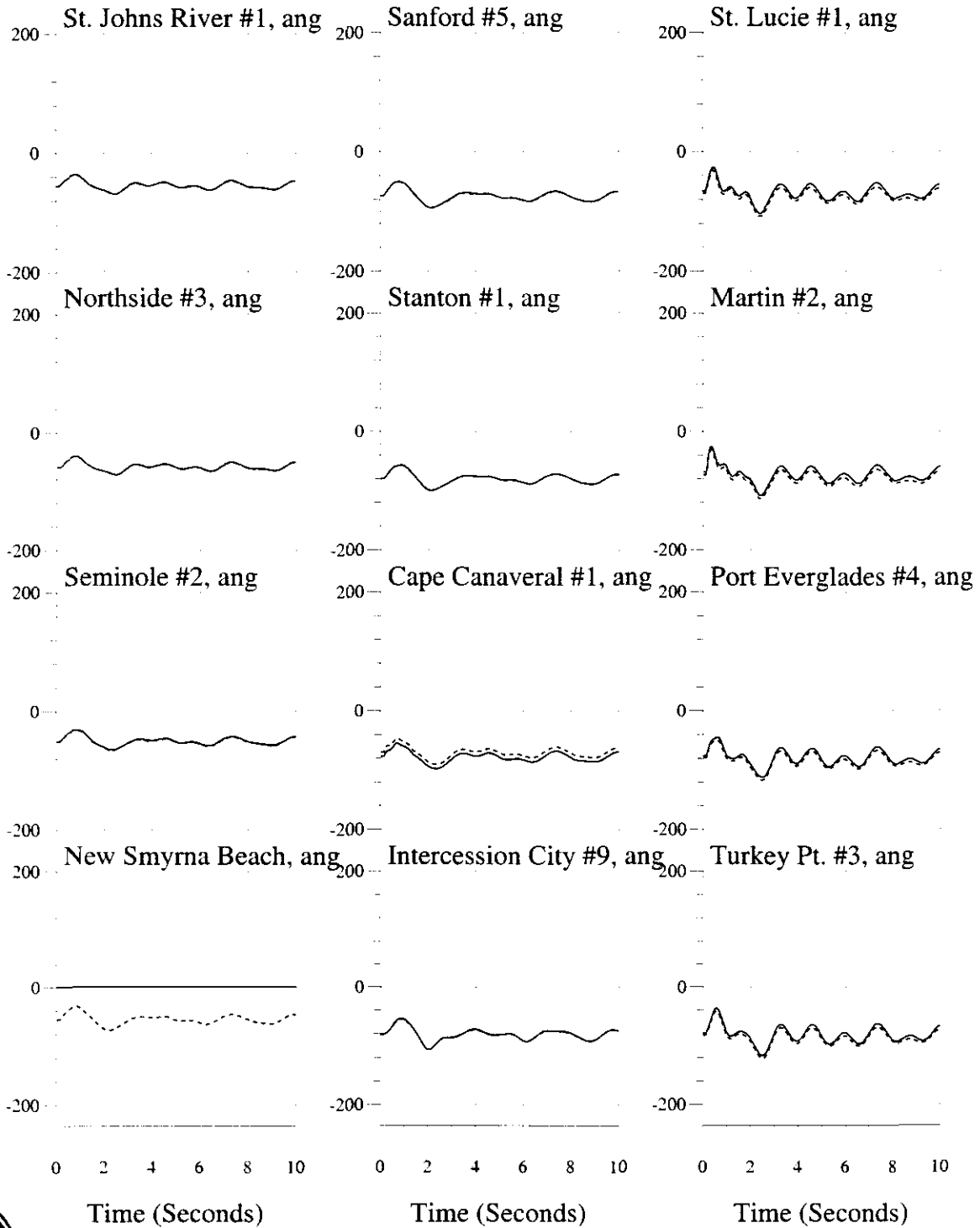
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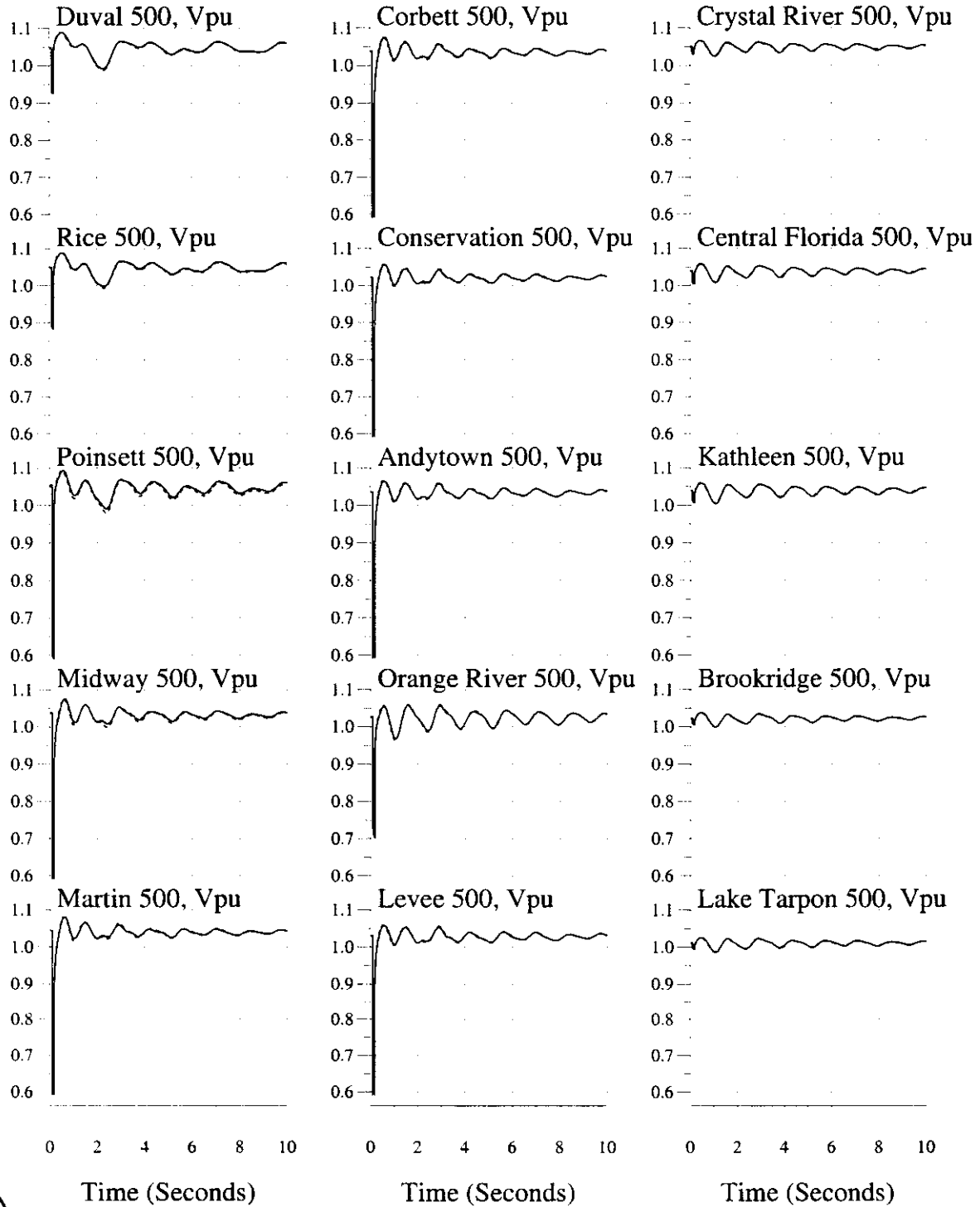
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



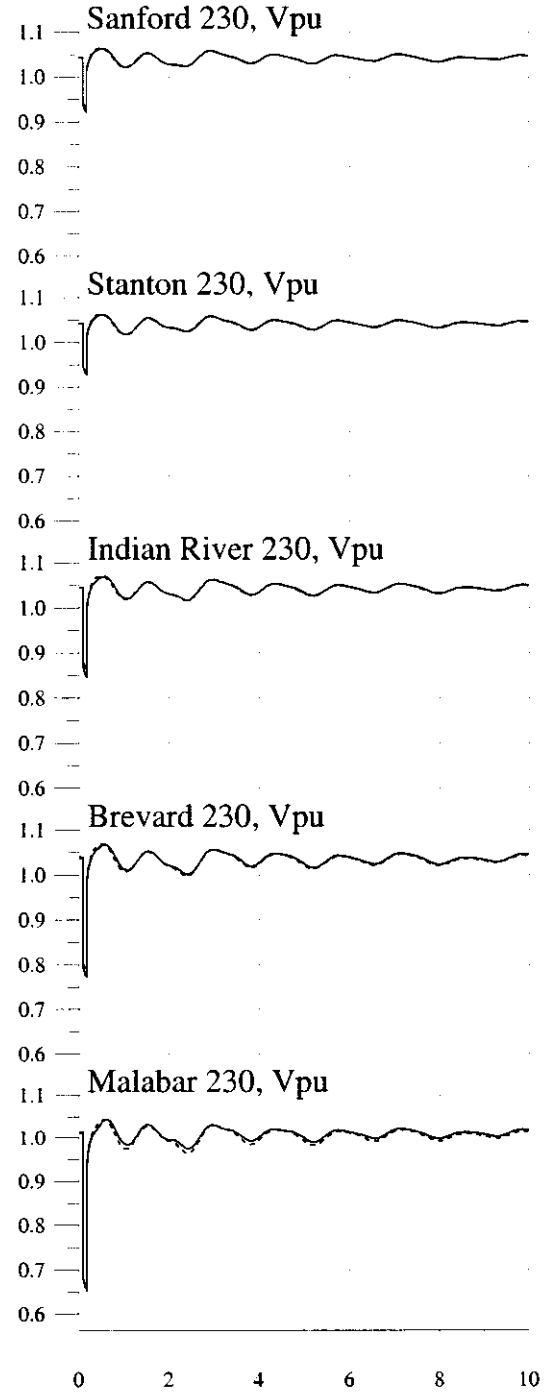
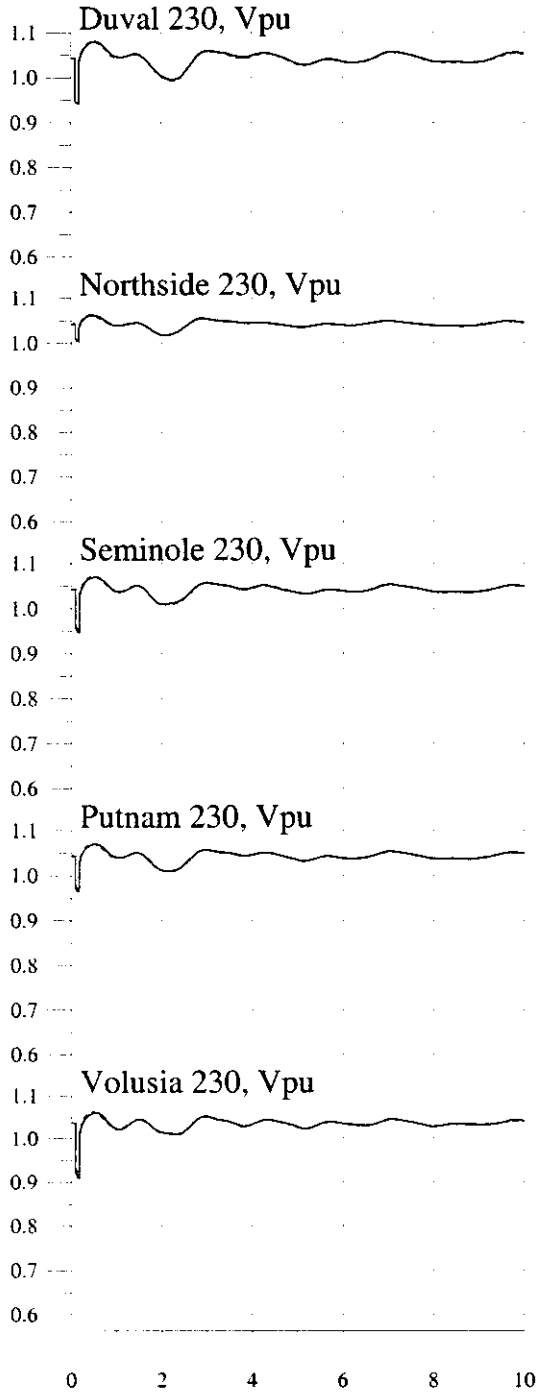
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



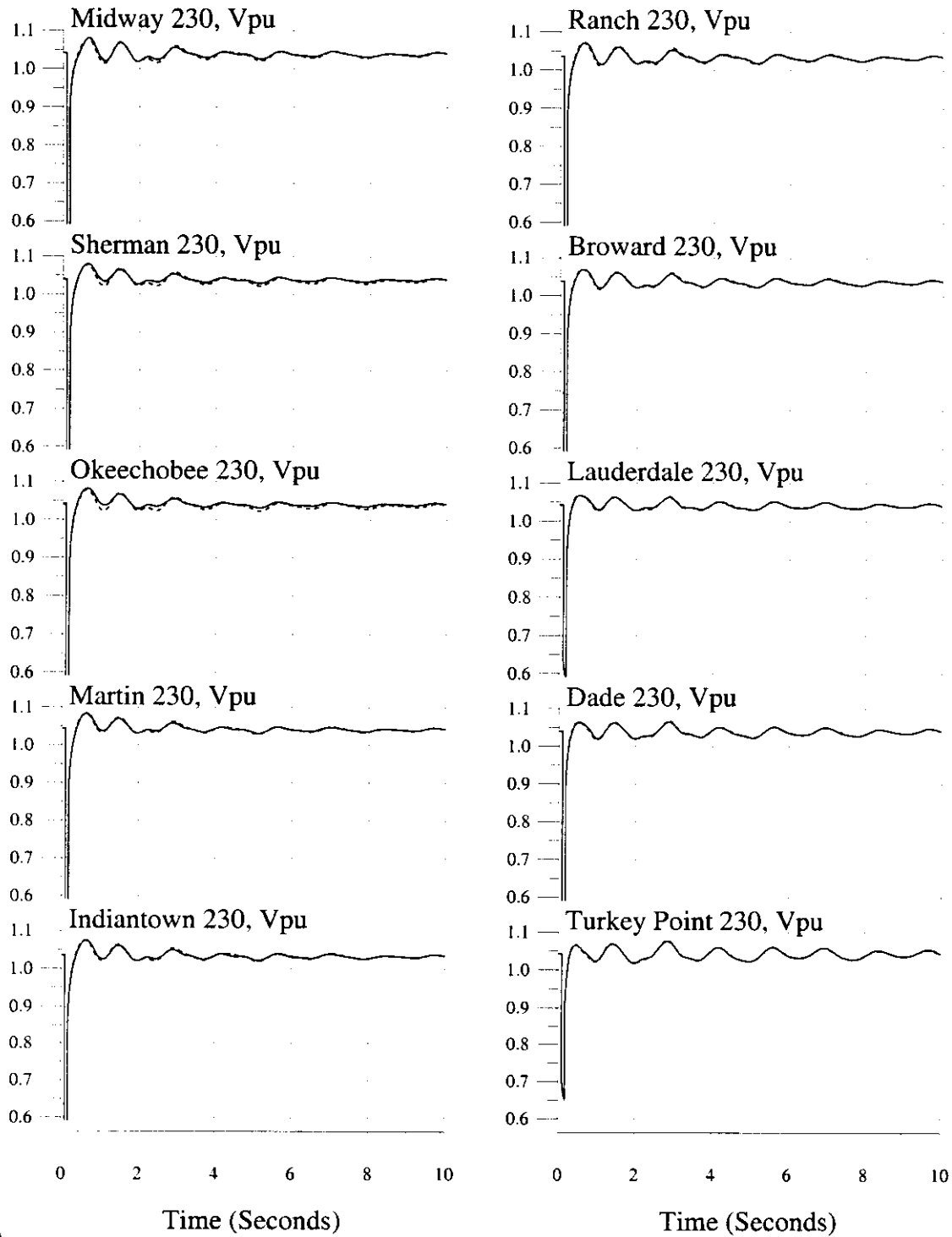
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



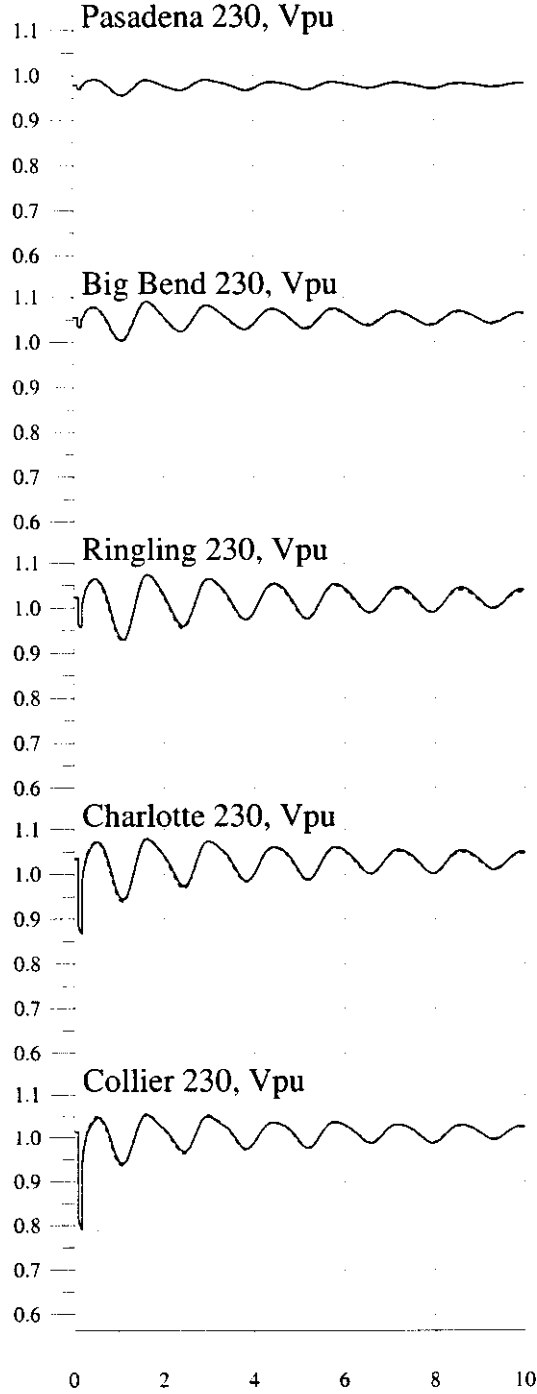
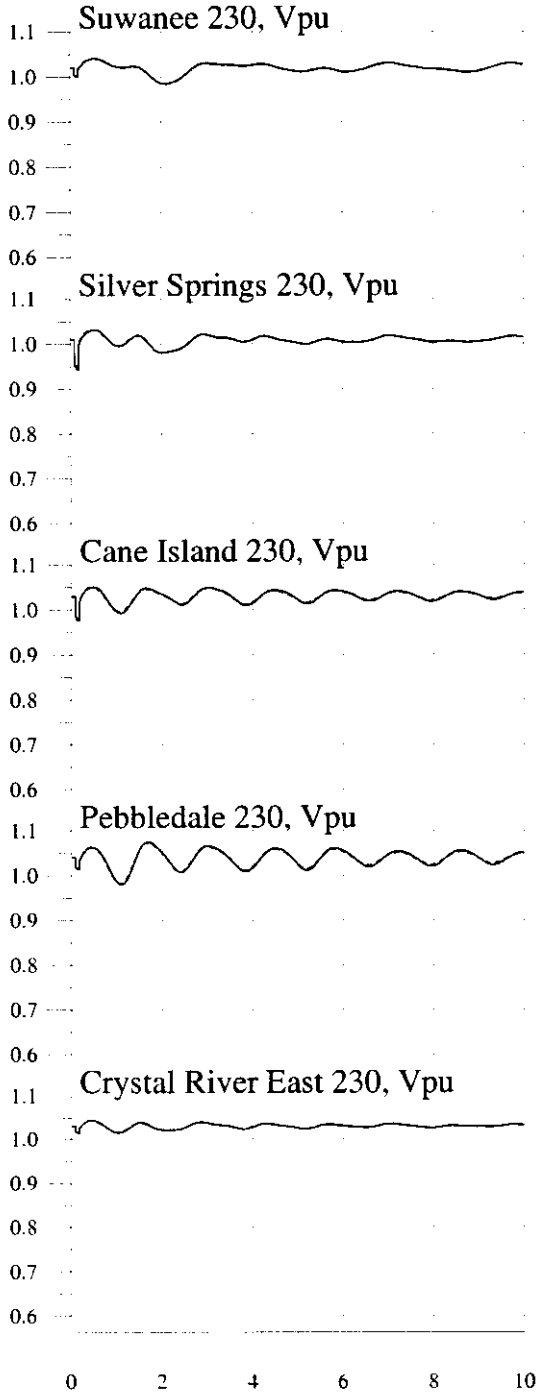
3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

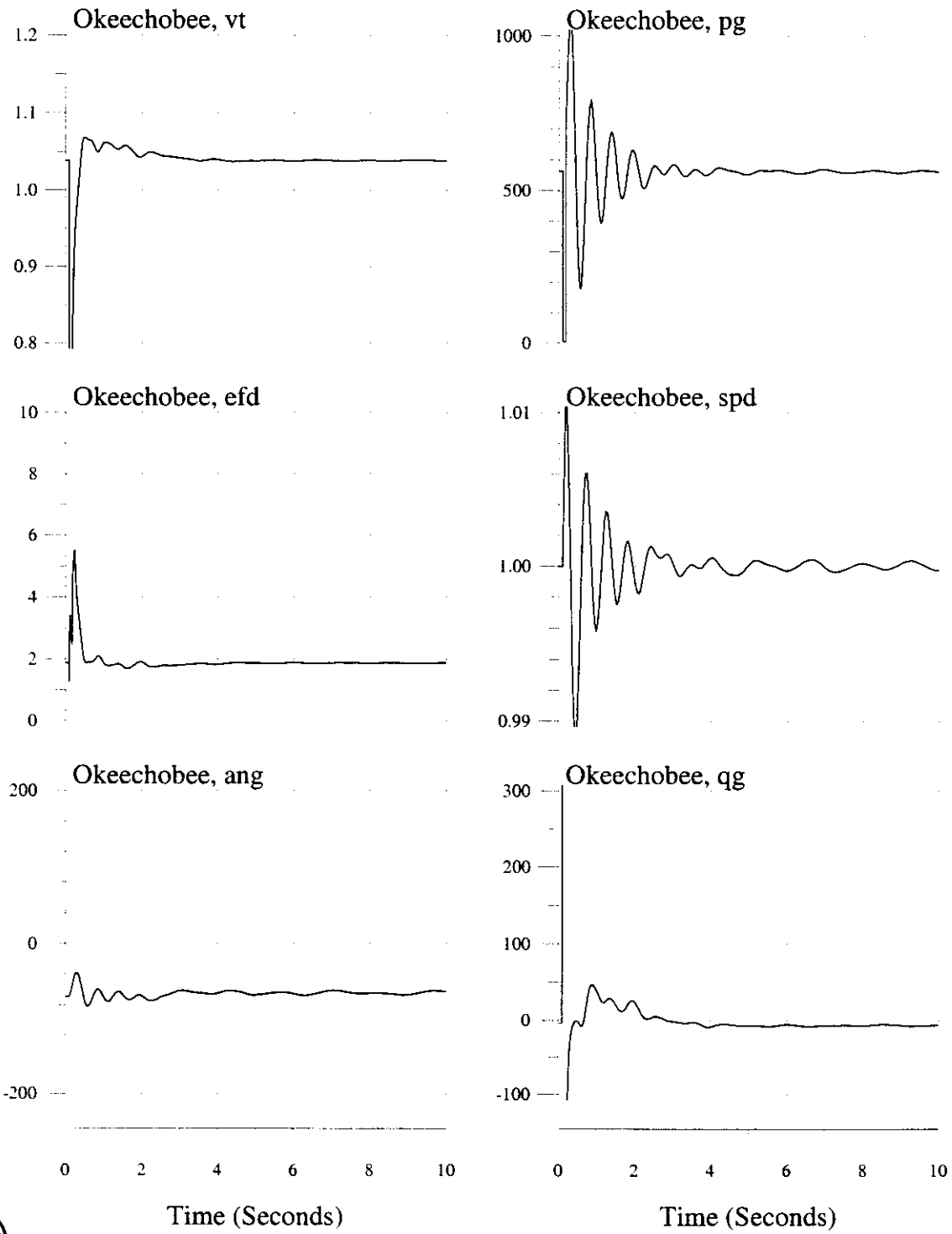


3-phase, 5-cycle Fault at Martin 500kV Bus, Trip Poinsett-Martin 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

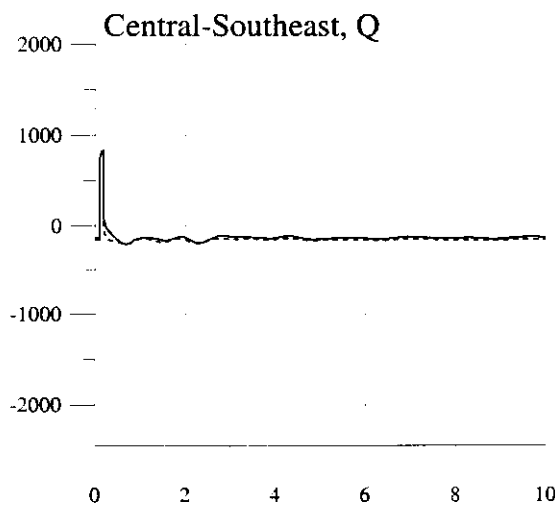
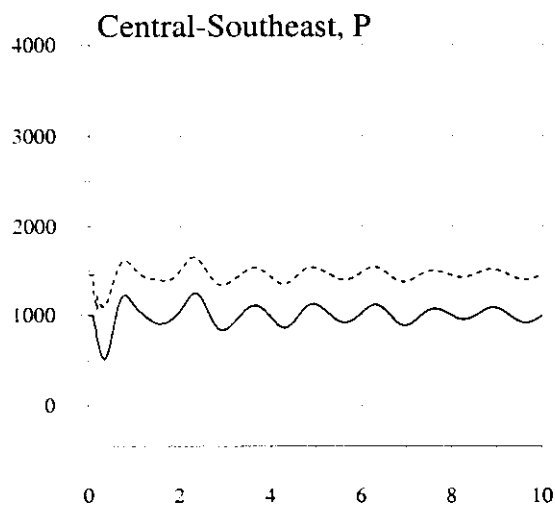
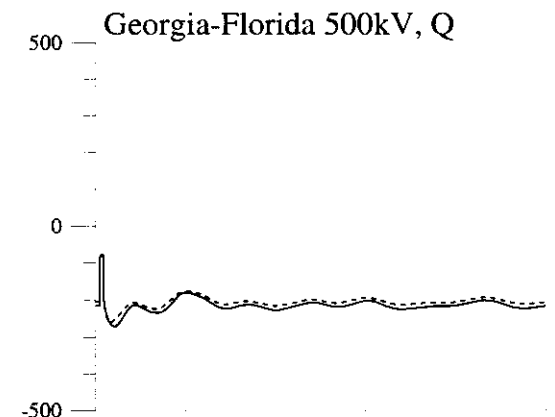
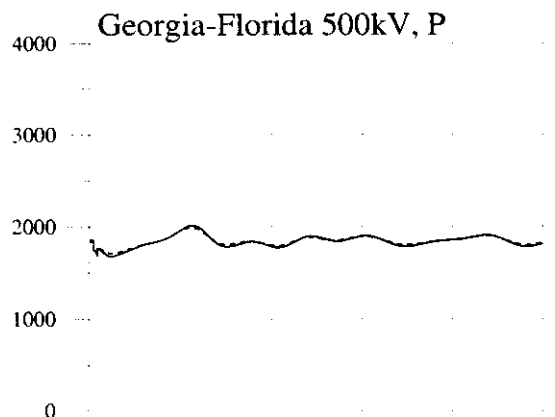
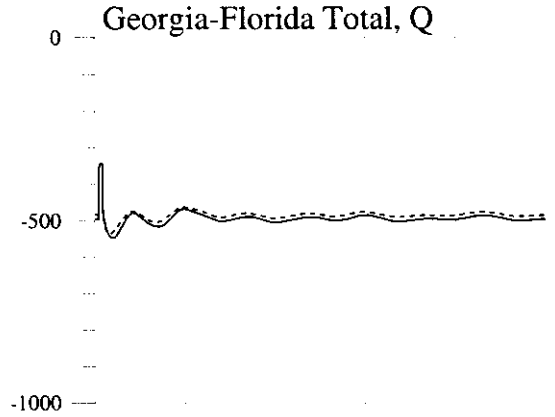
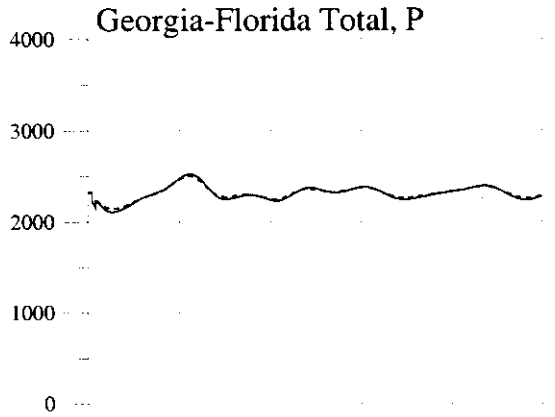




3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without

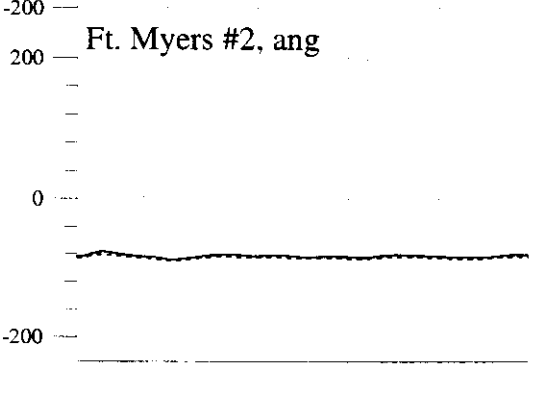
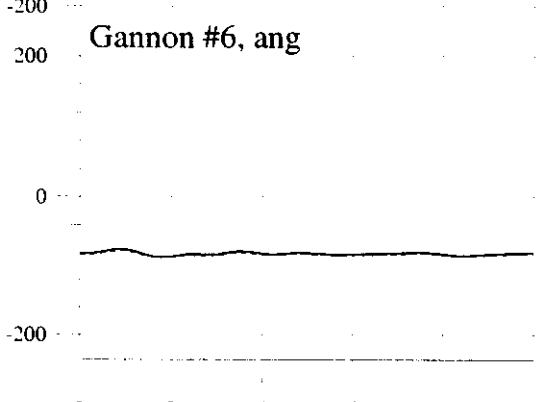
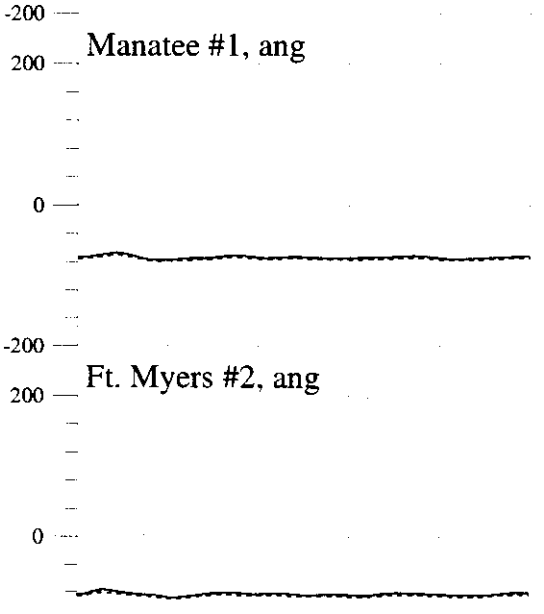
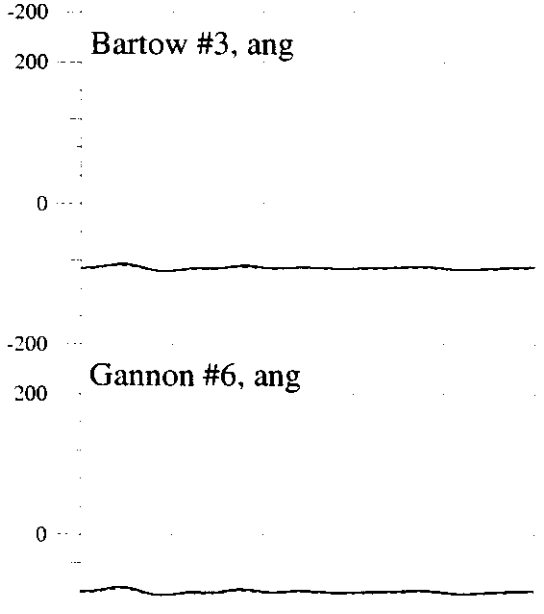
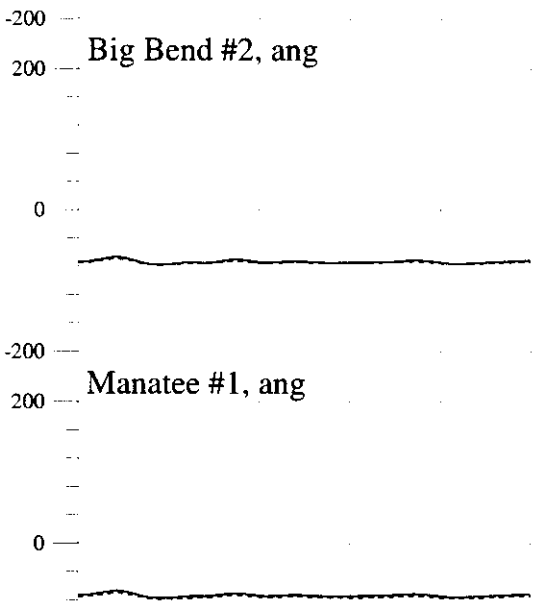
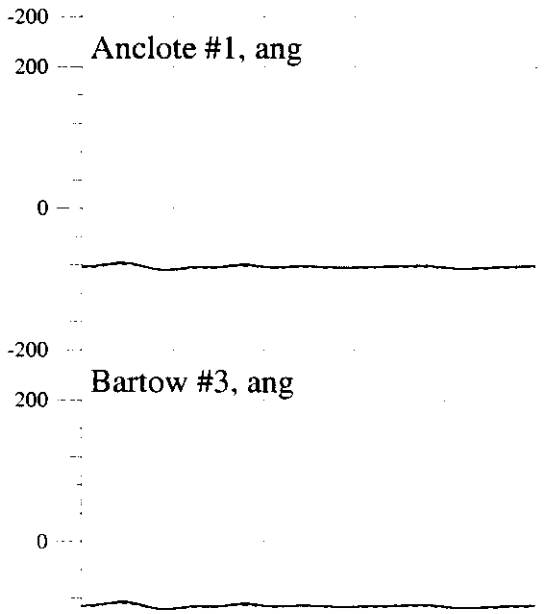
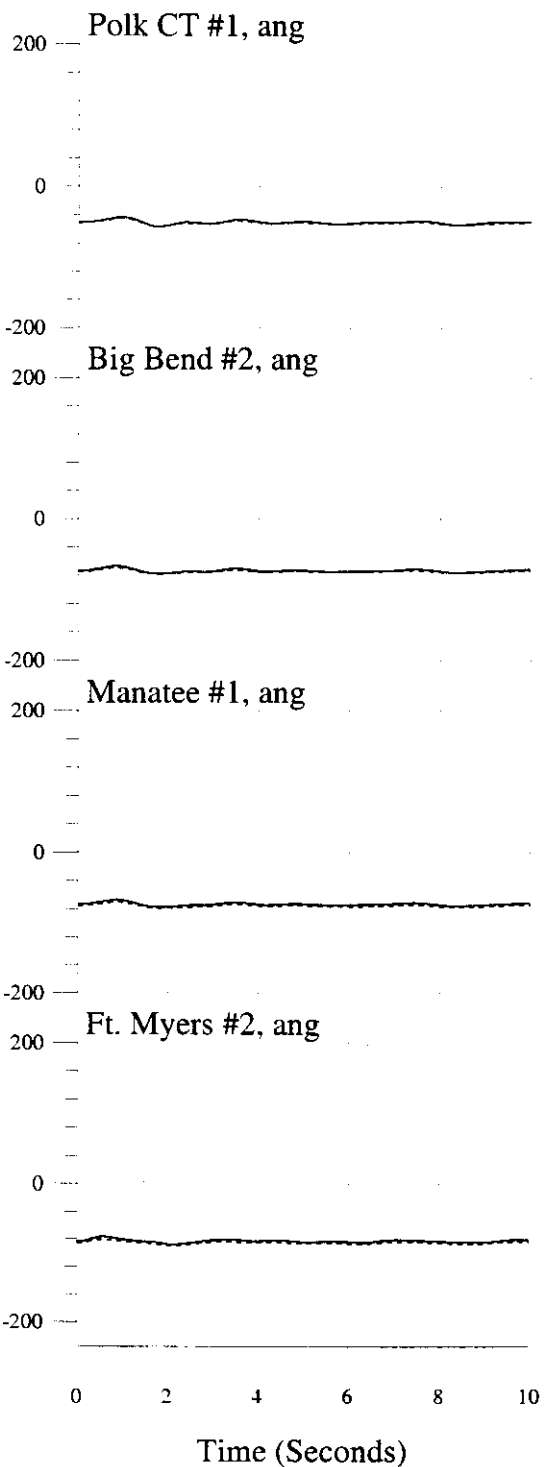
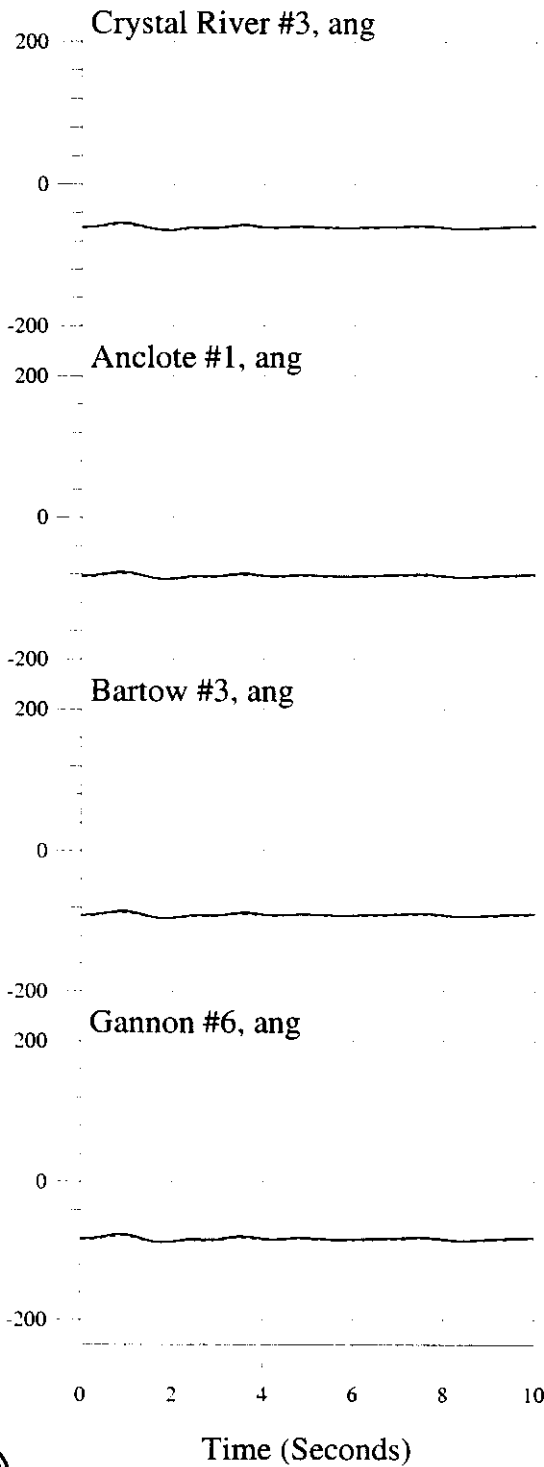


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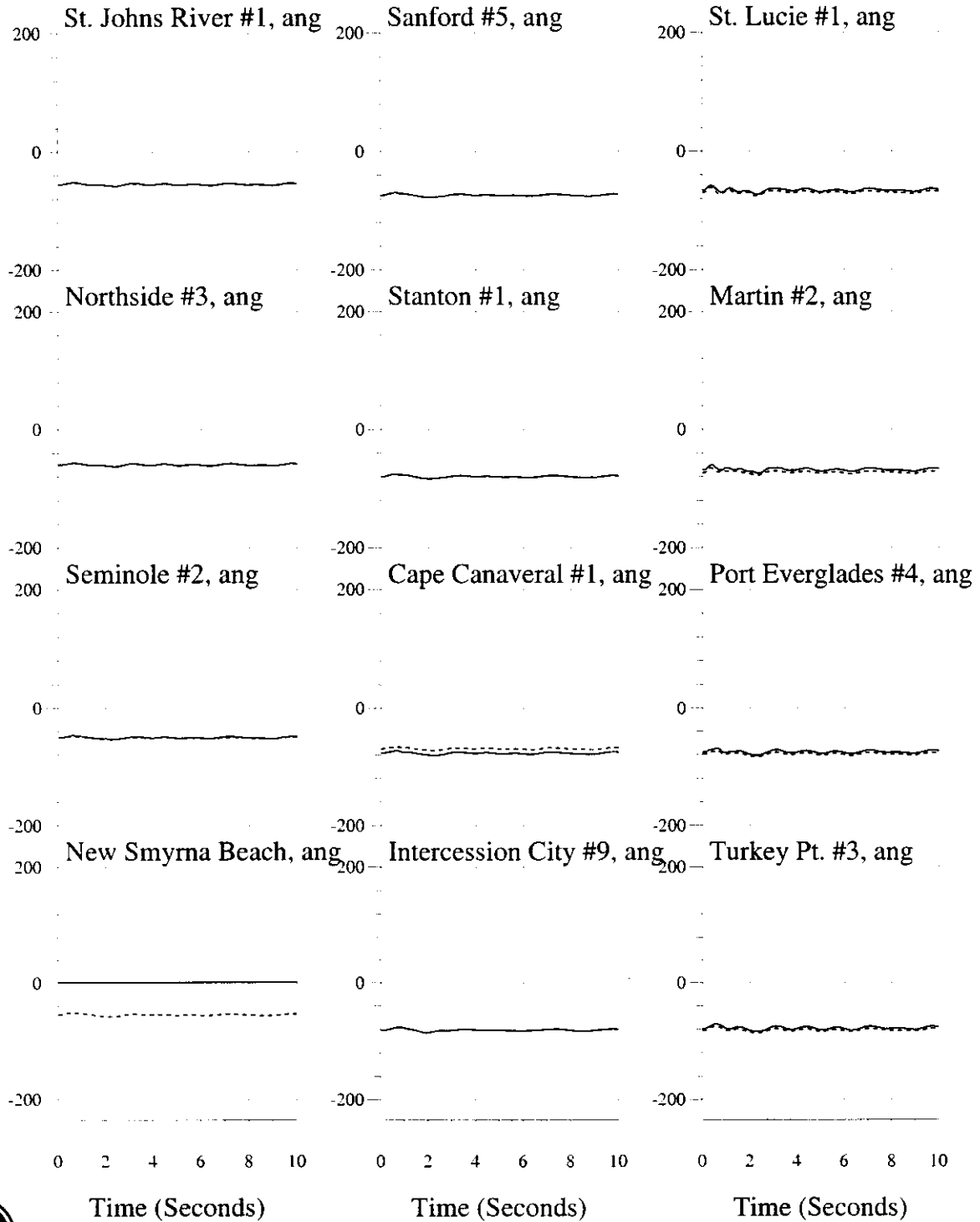
Time (Seconds)



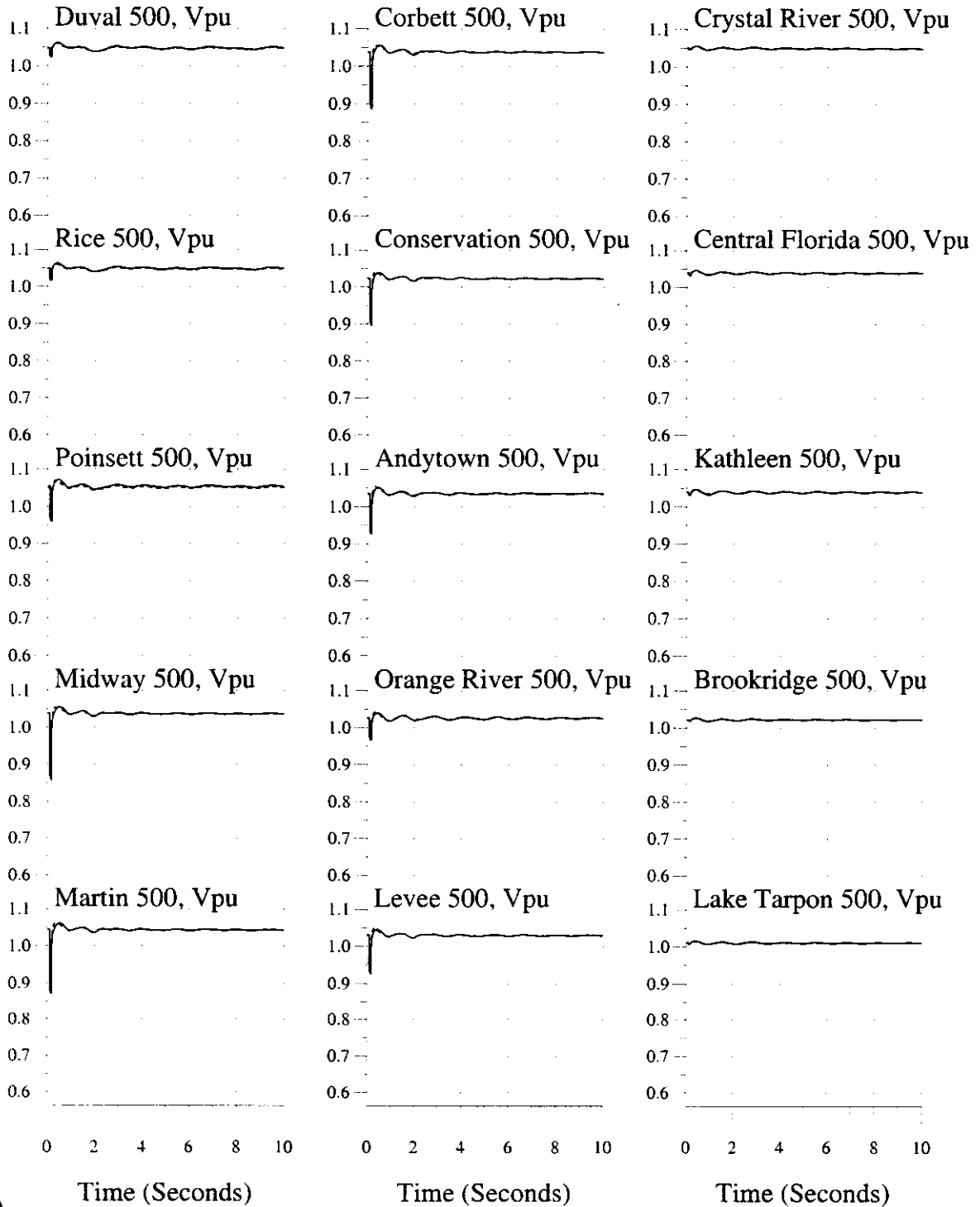
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



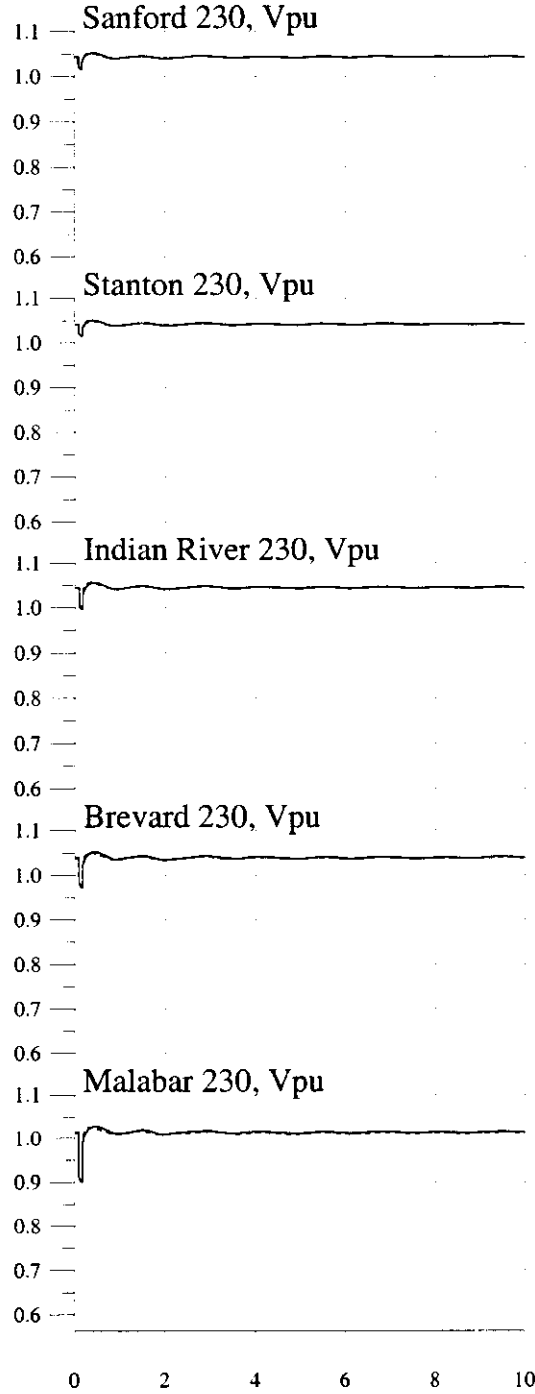
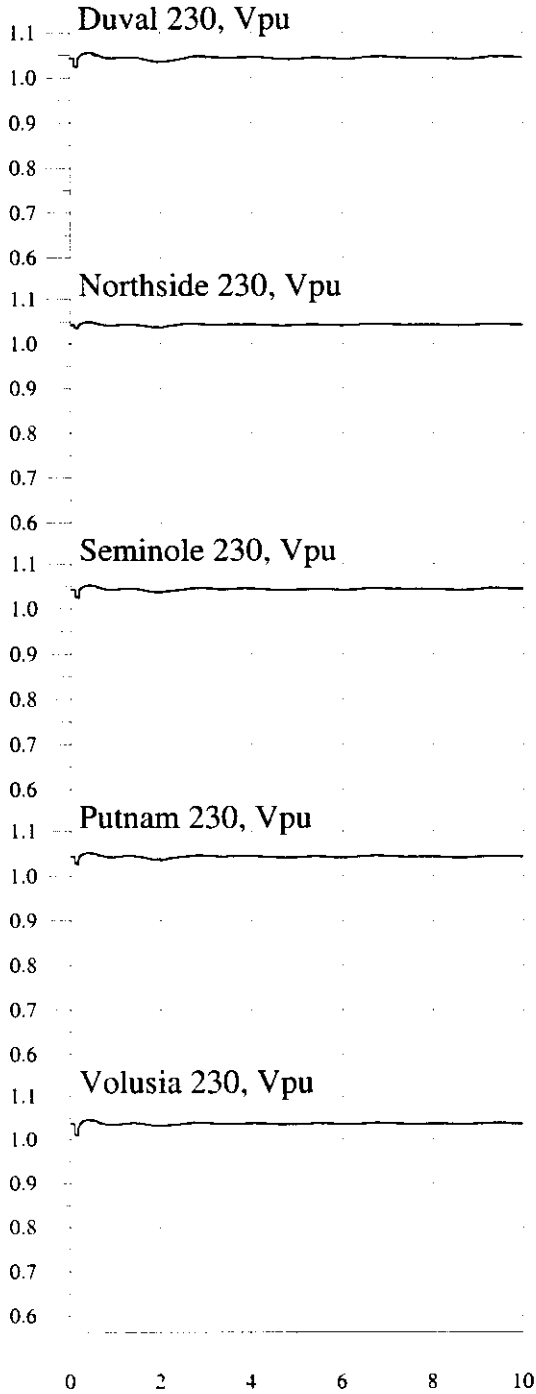
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

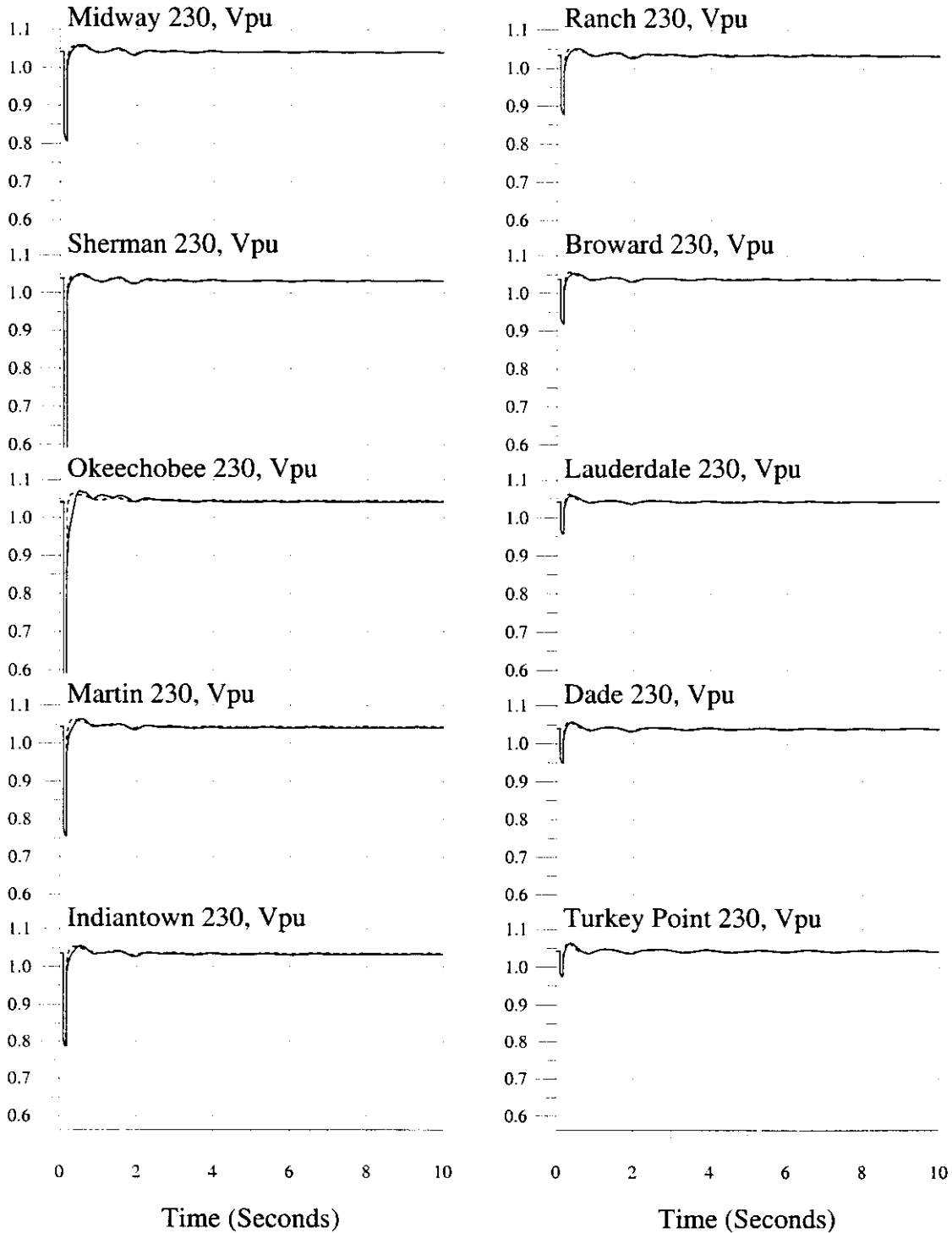


Time (Seconds)

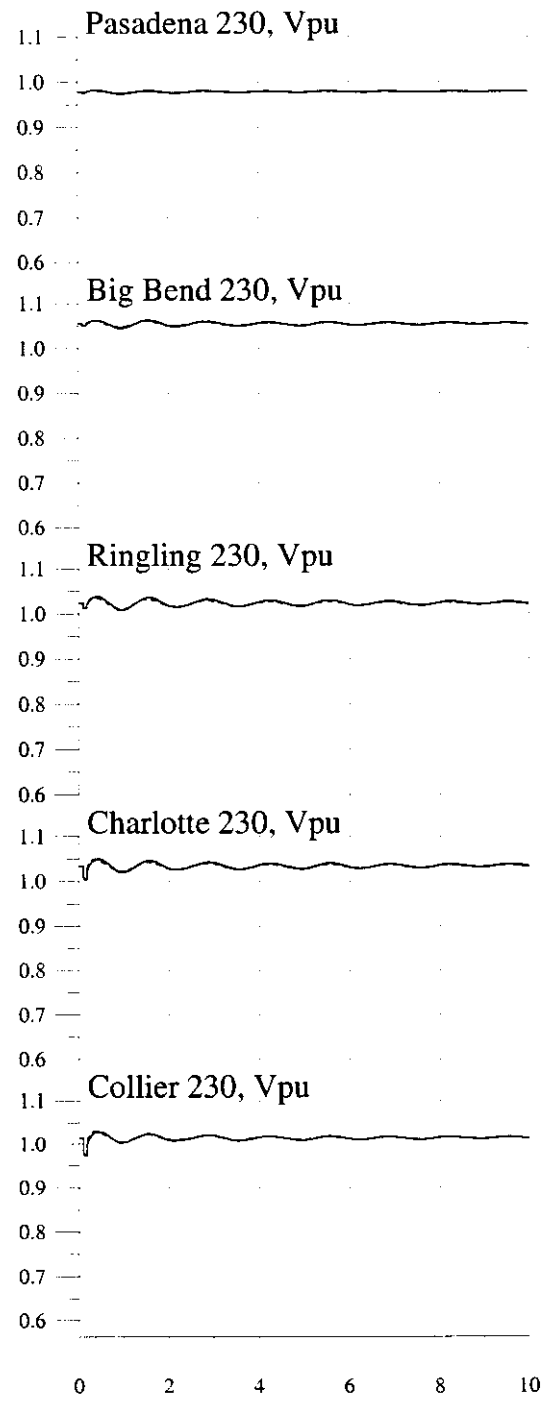
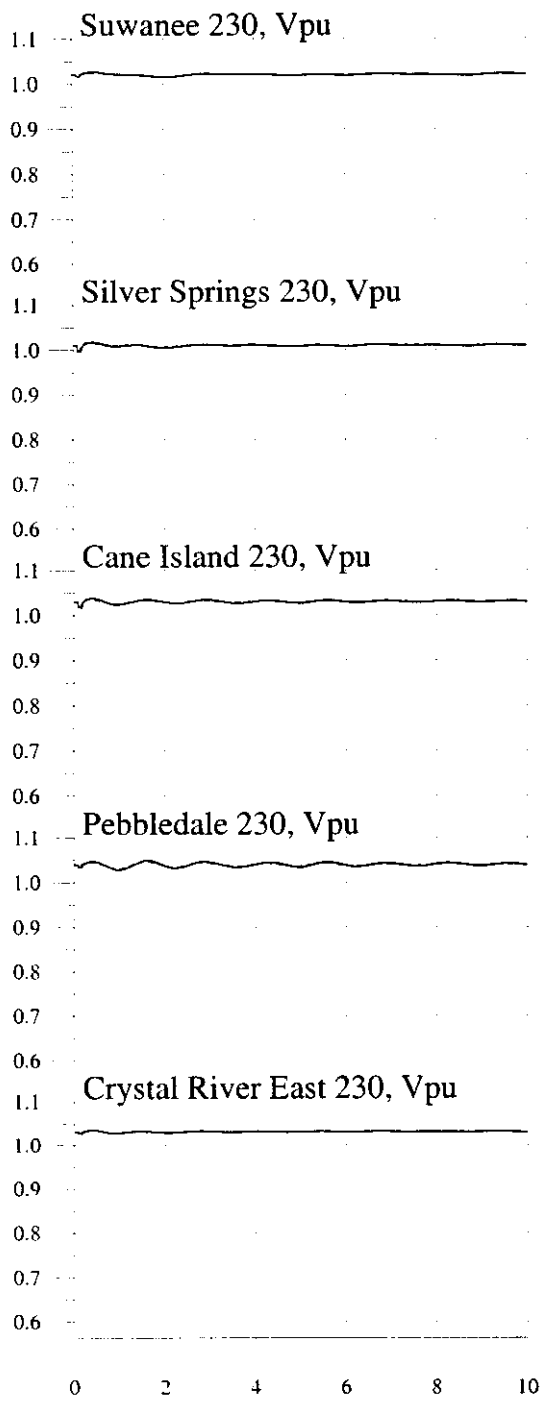
Time (Seconds)



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

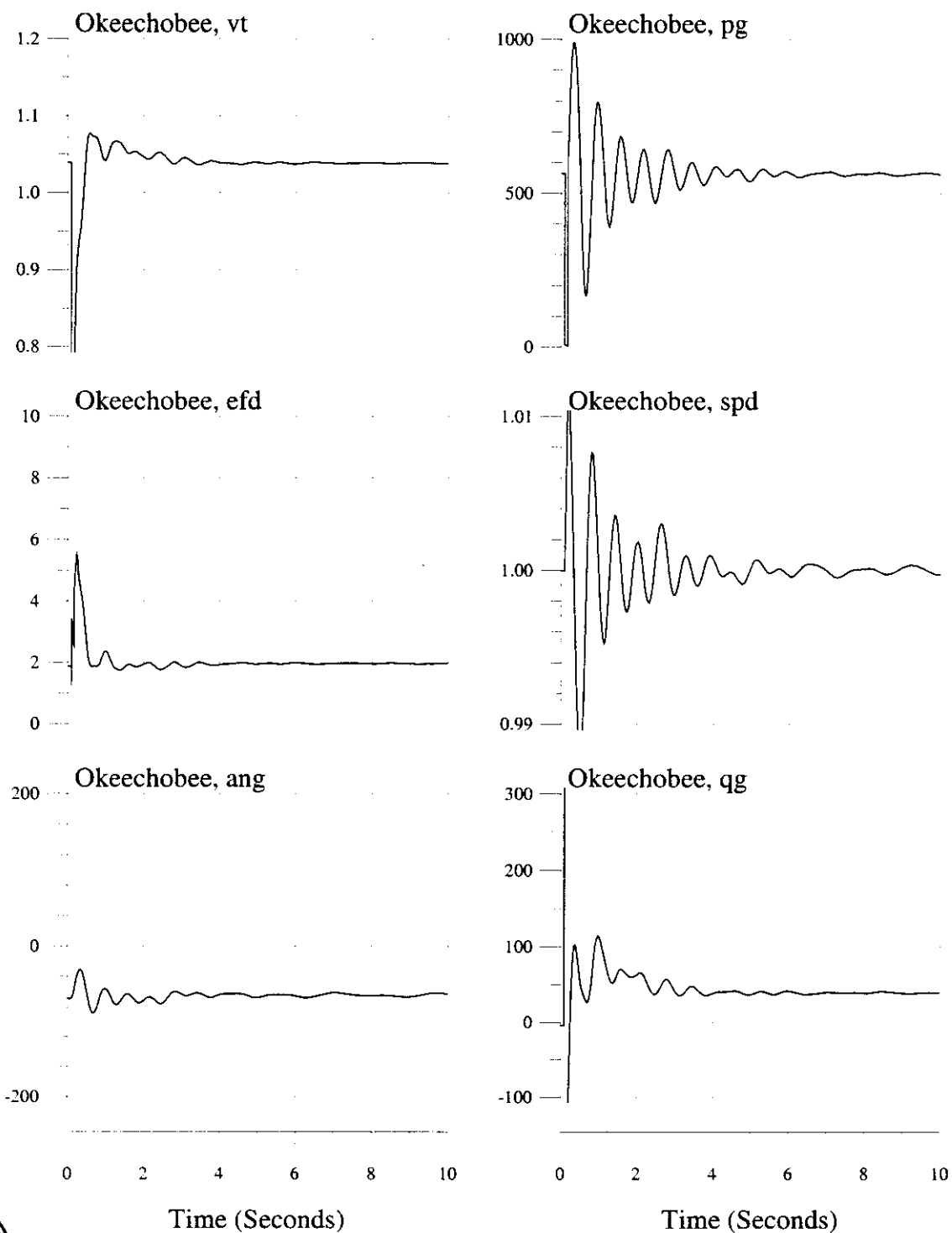


3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Sherman 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

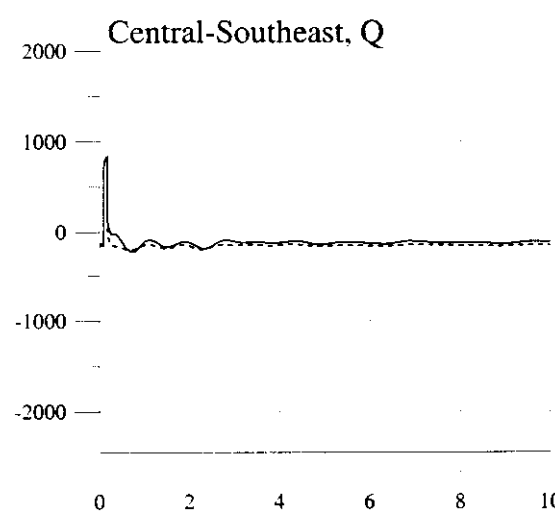
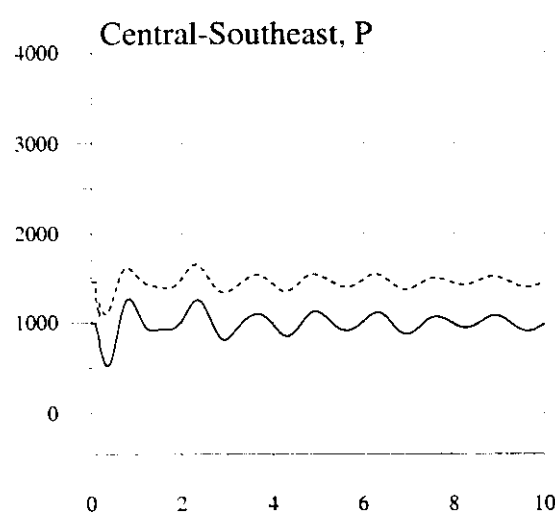
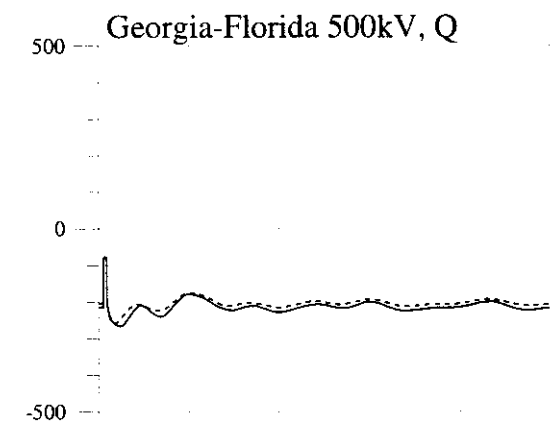
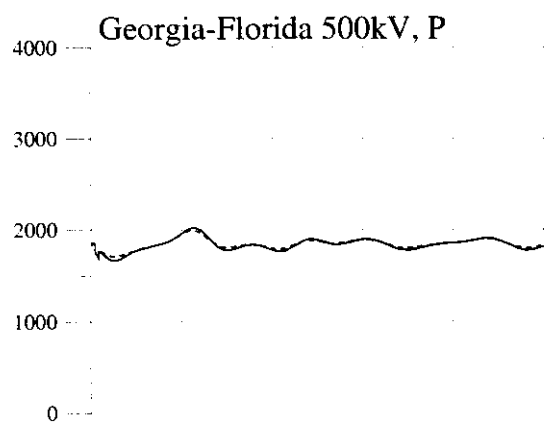
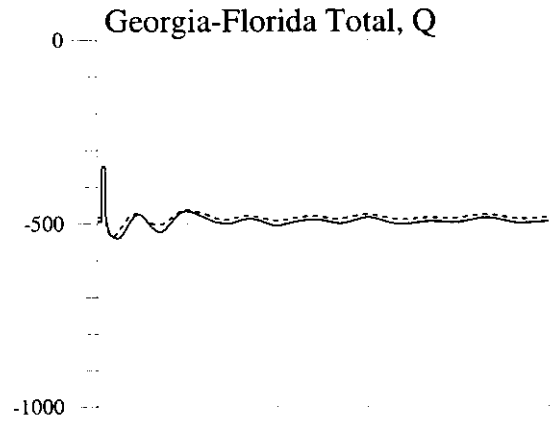
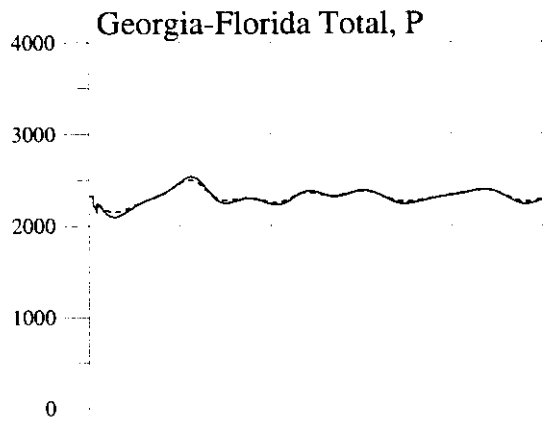




3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without

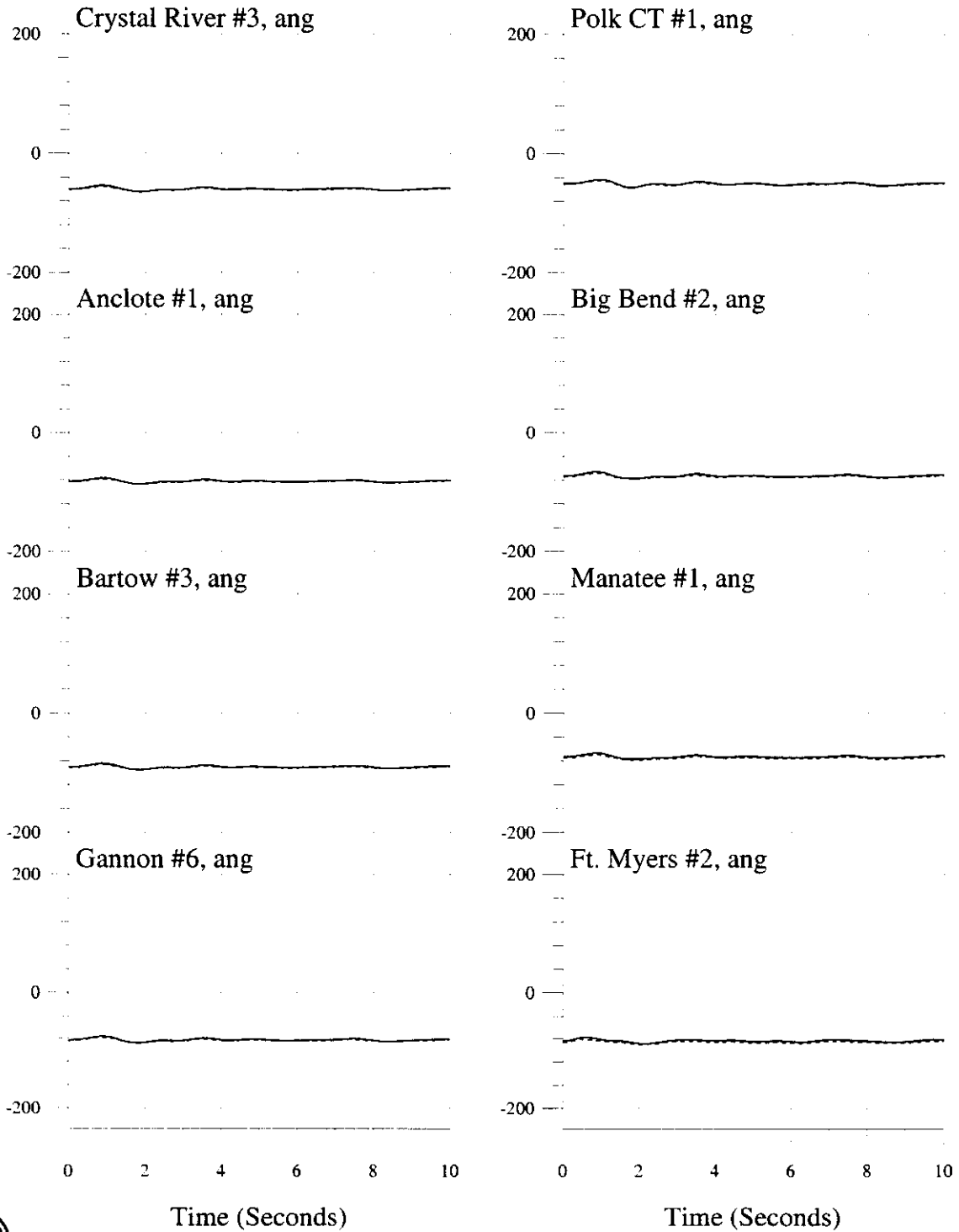


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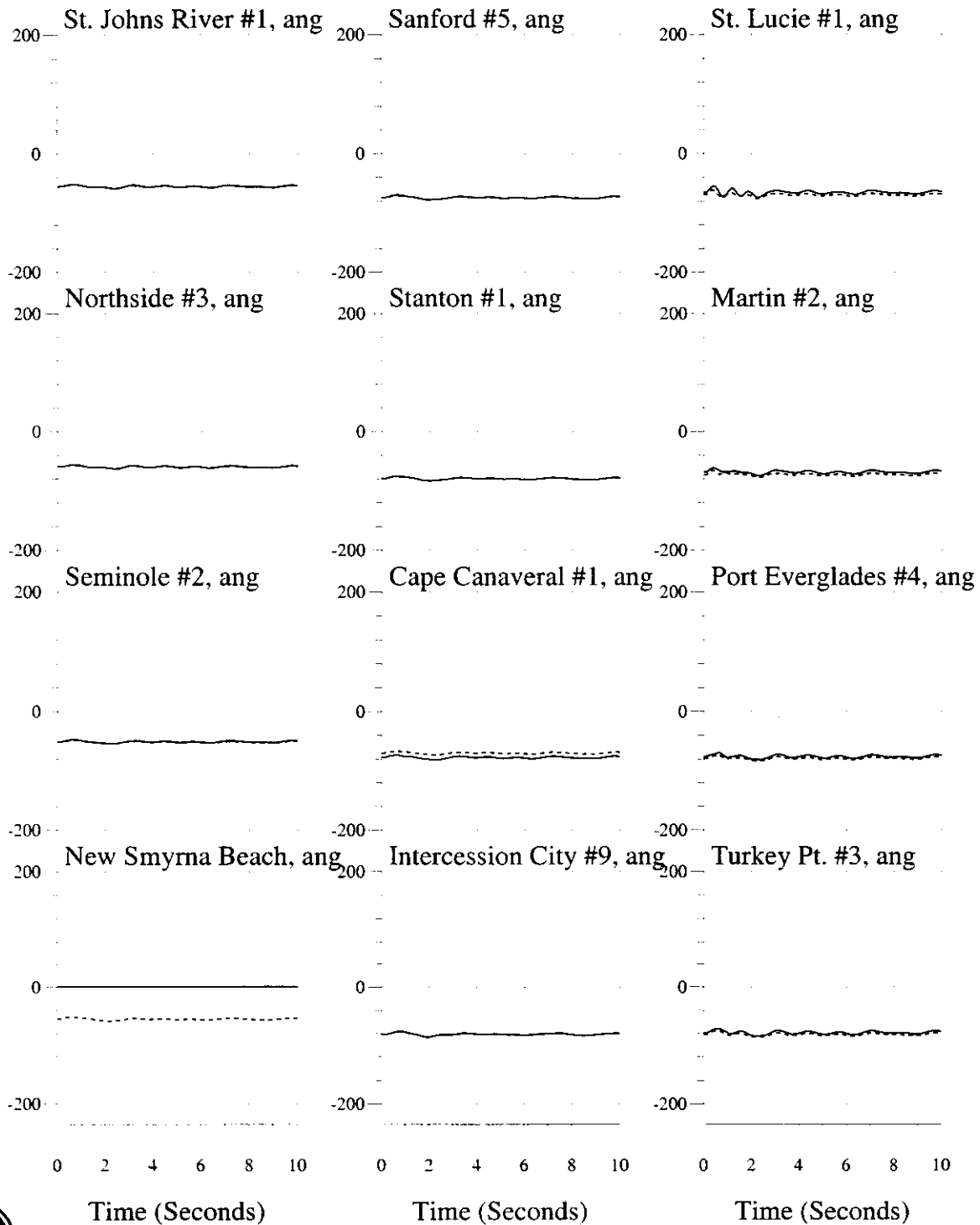
Time (Seconds)



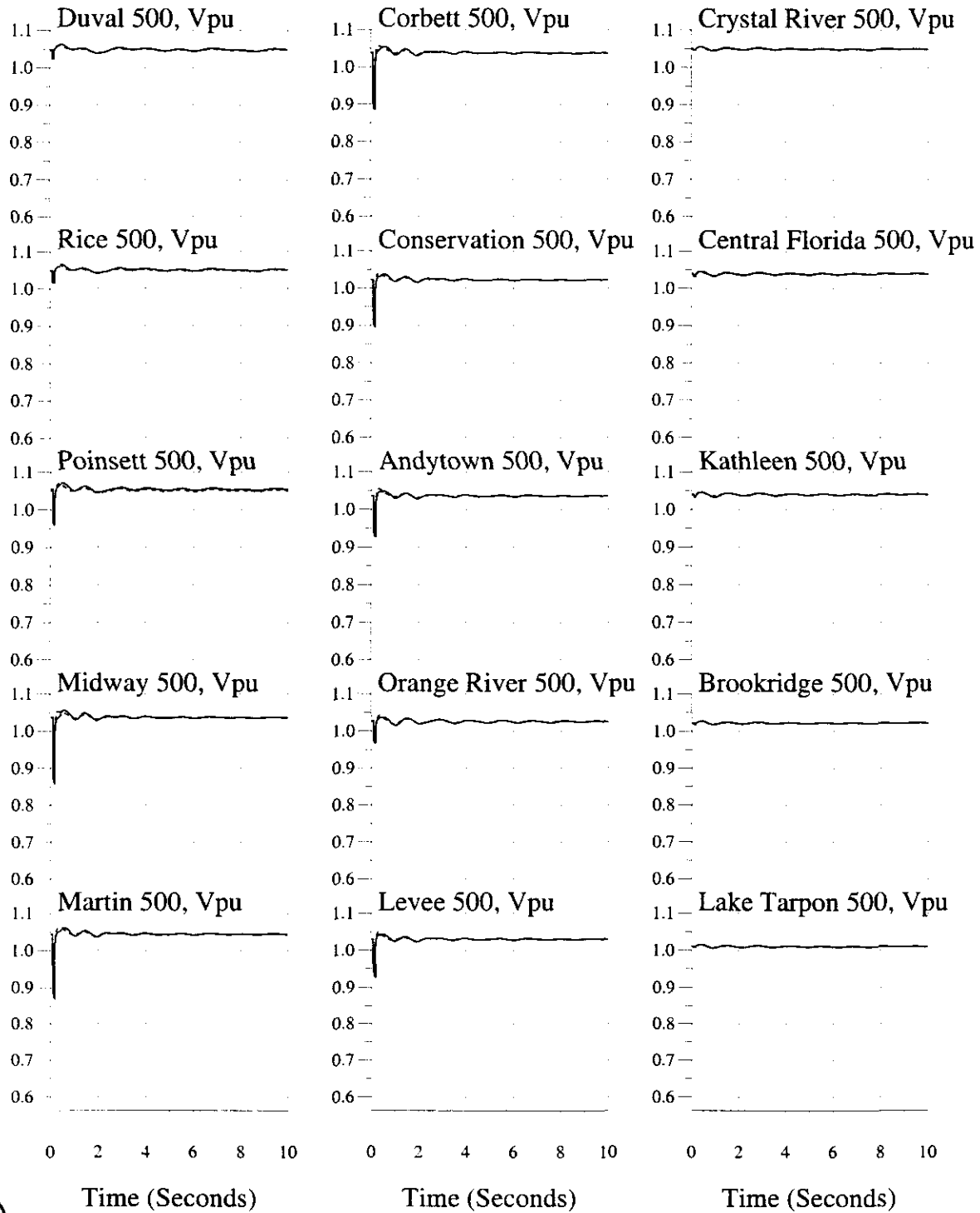
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



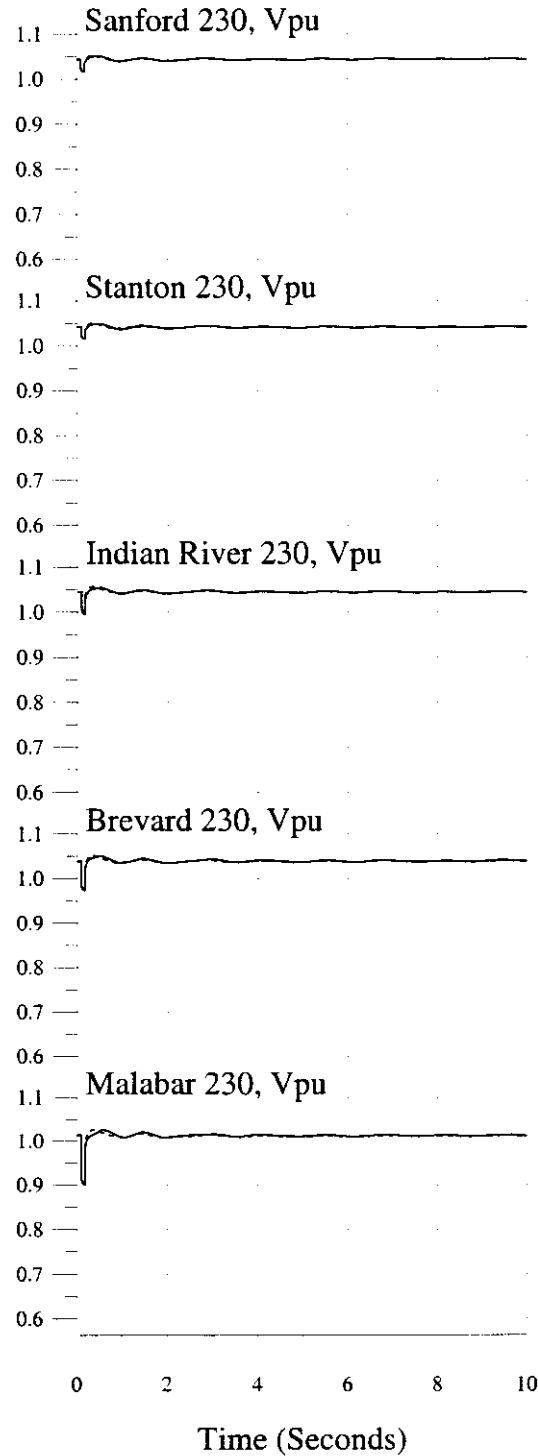
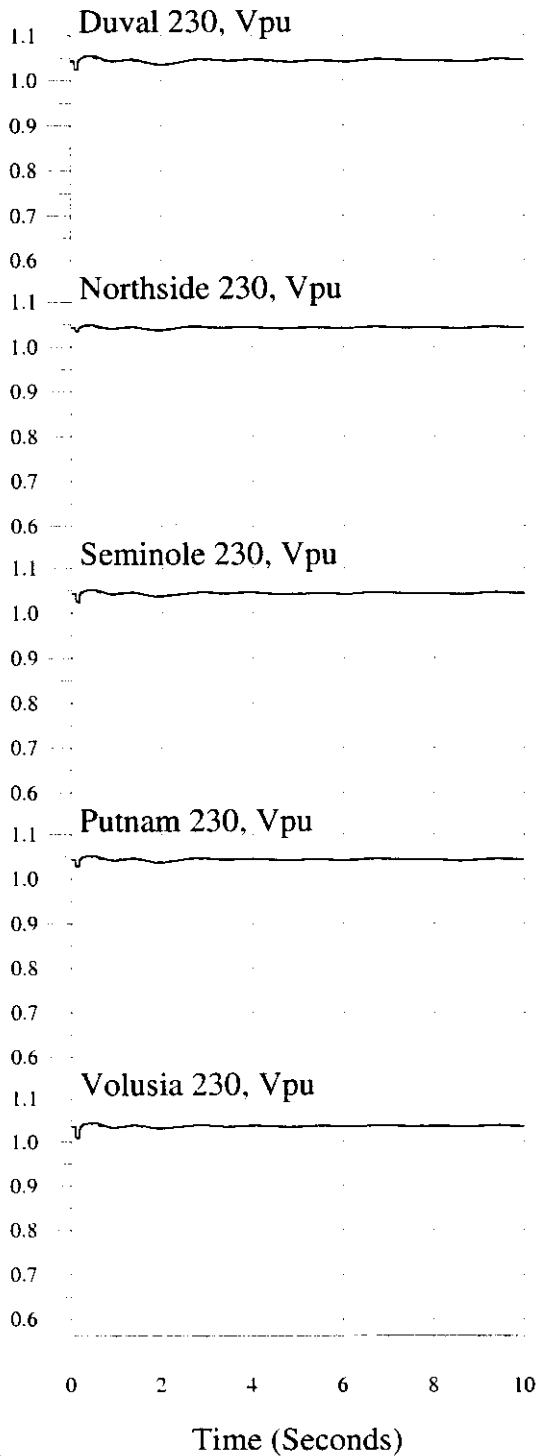
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



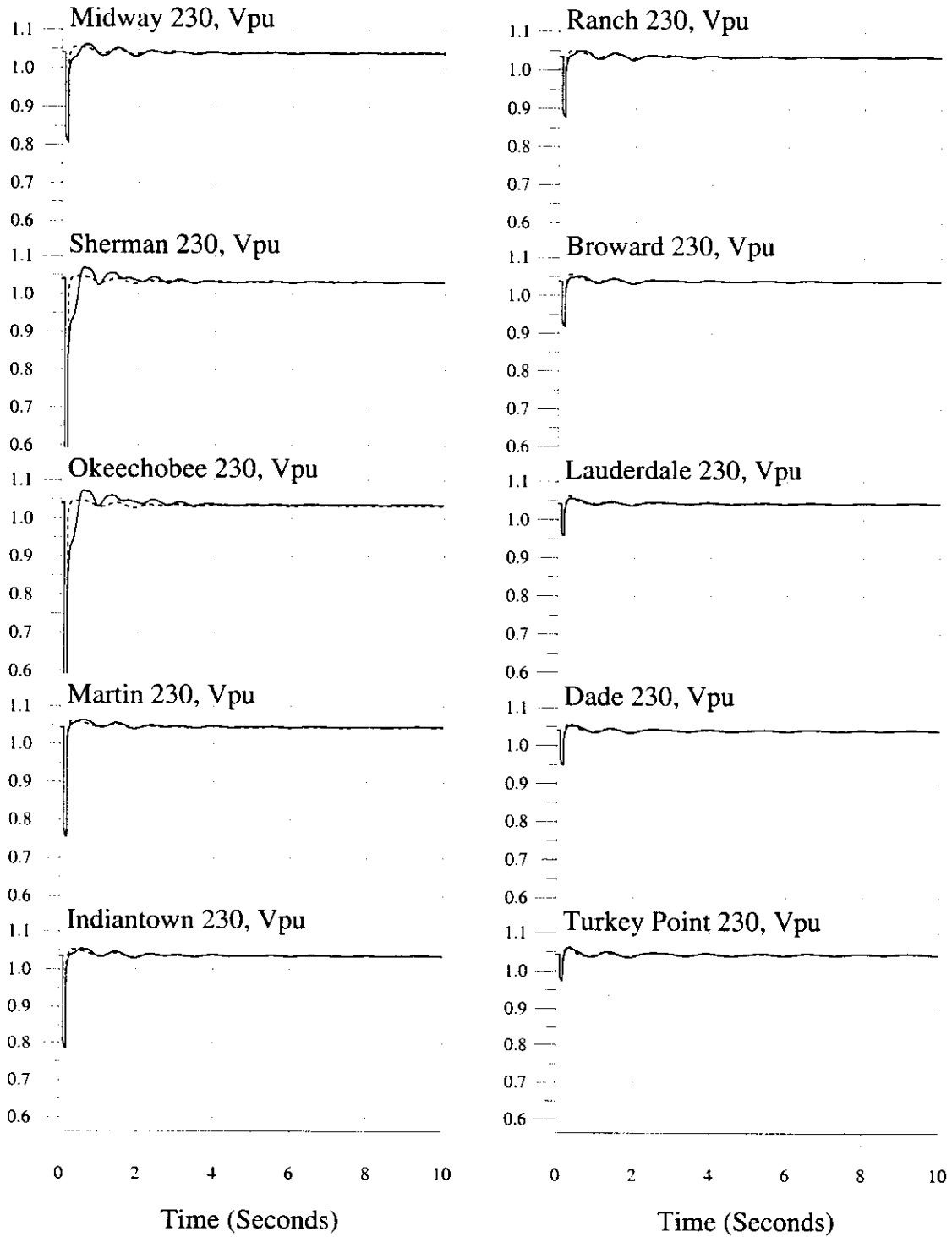
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 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



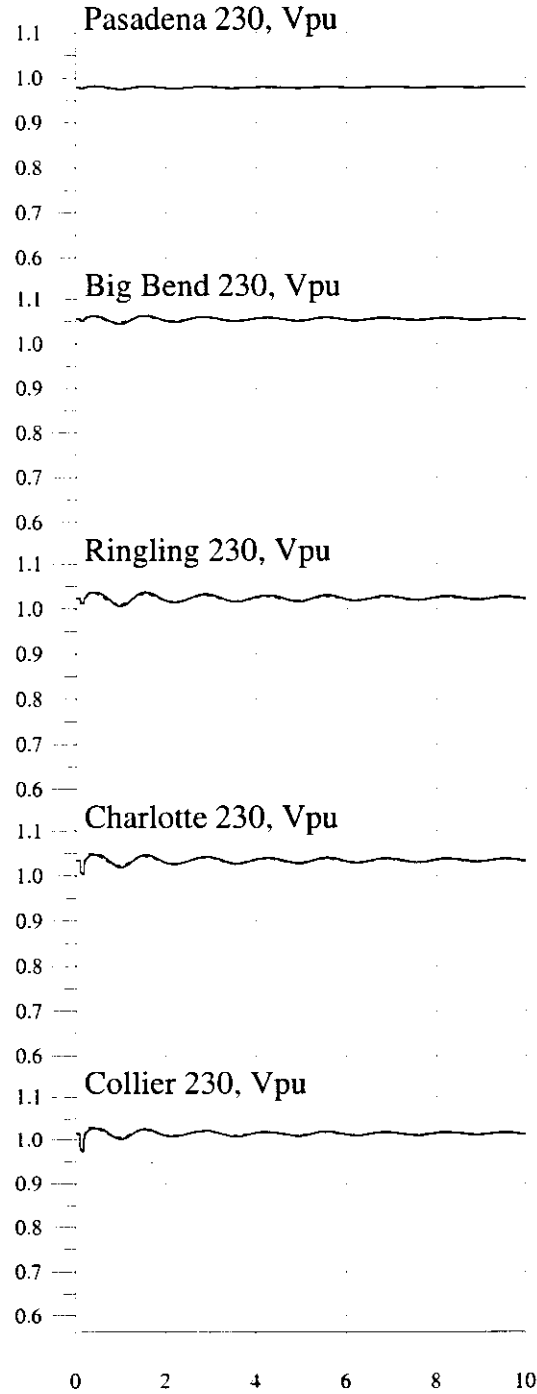
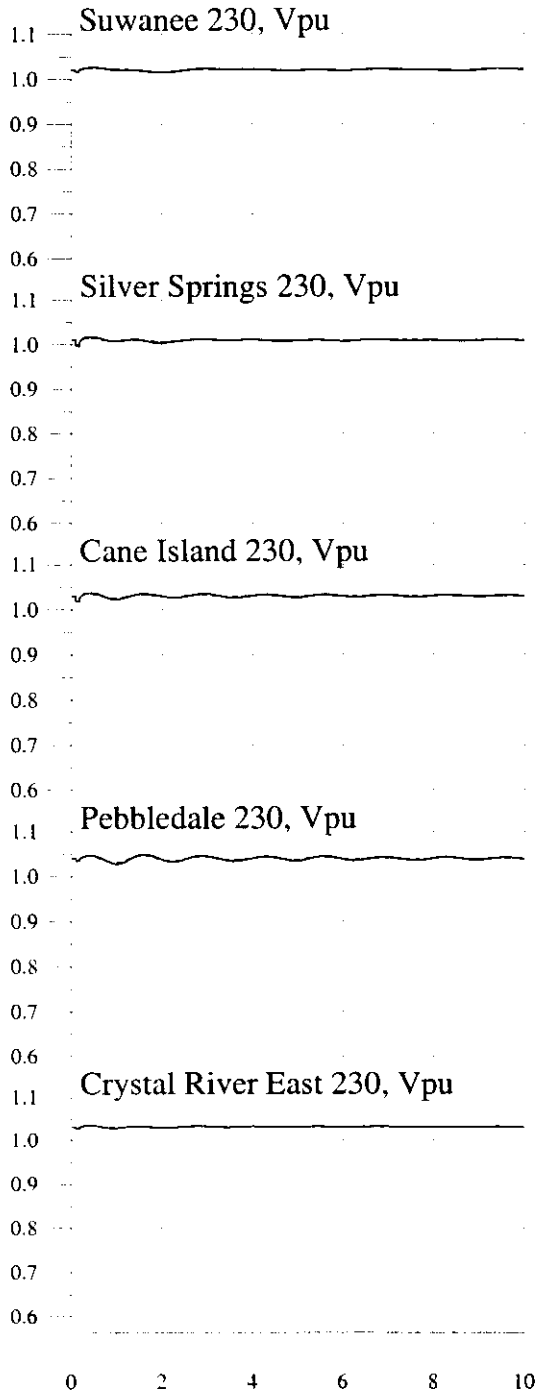
3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without

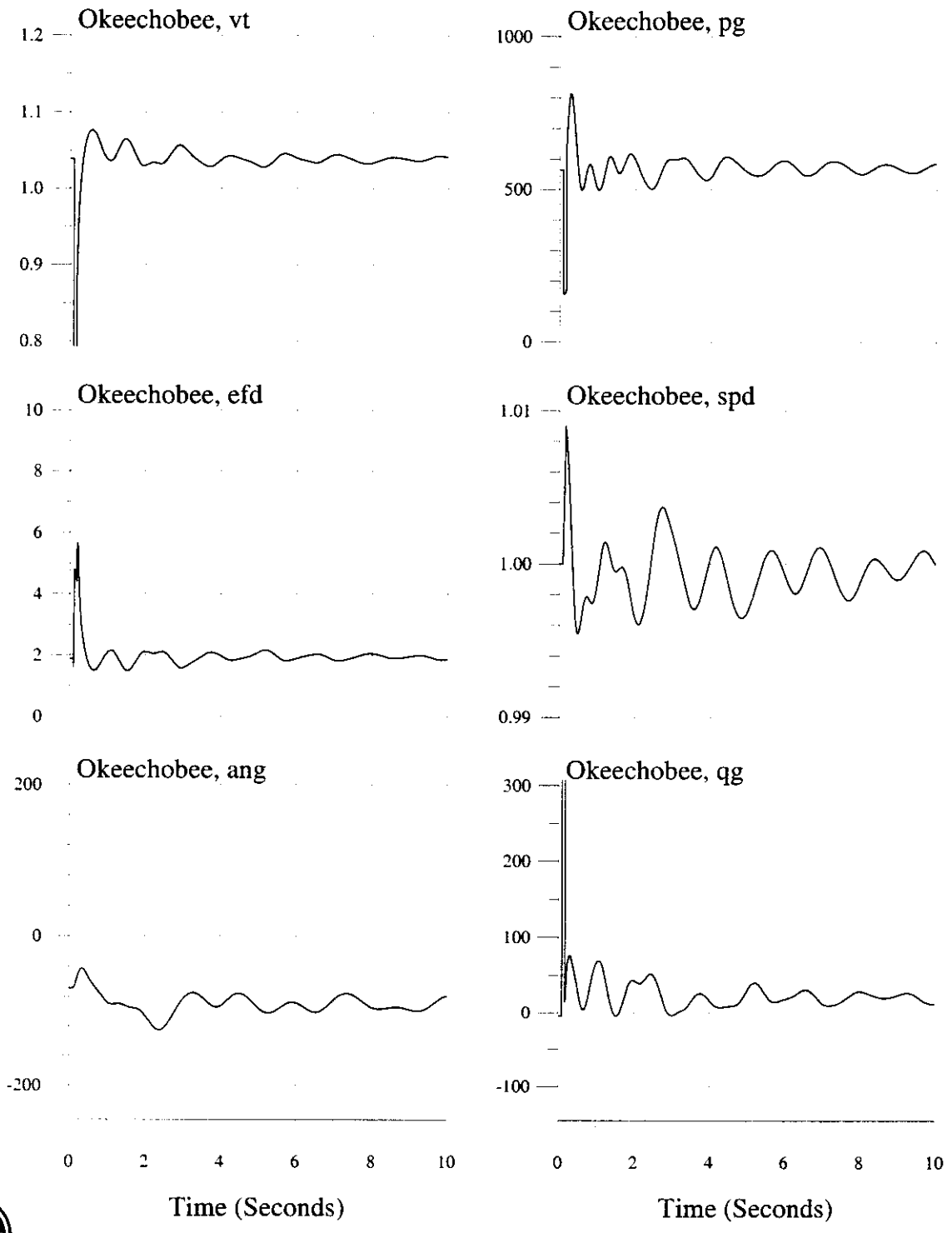


3-phase, 5-cycle Fault at Okeechobee 230kV Bus, Trip Okeechobee-Martin 230kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Bus Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without

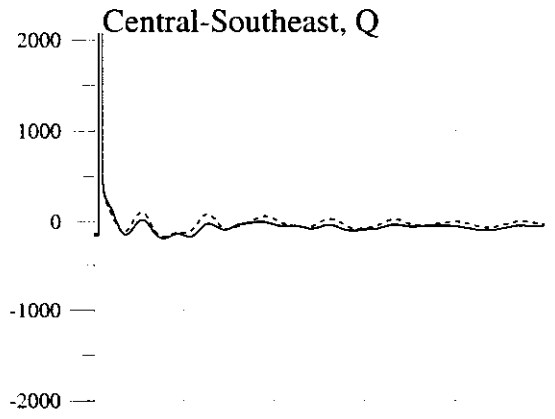
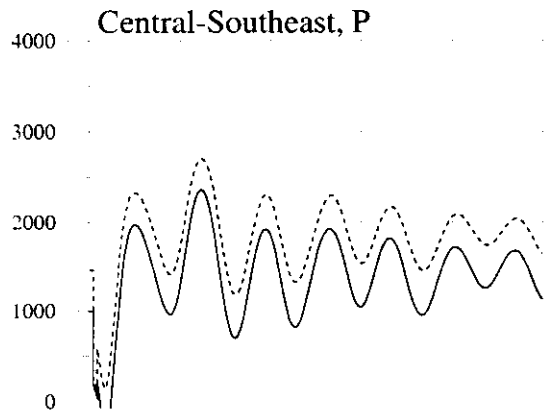
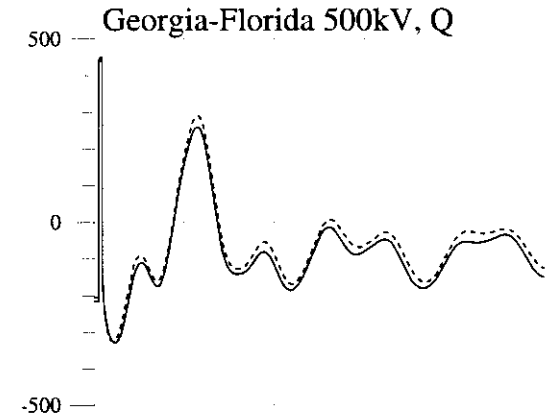
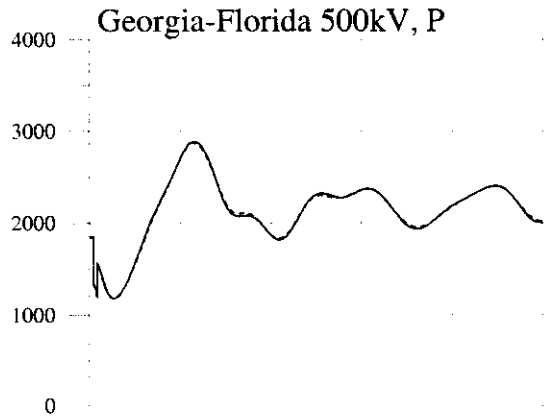
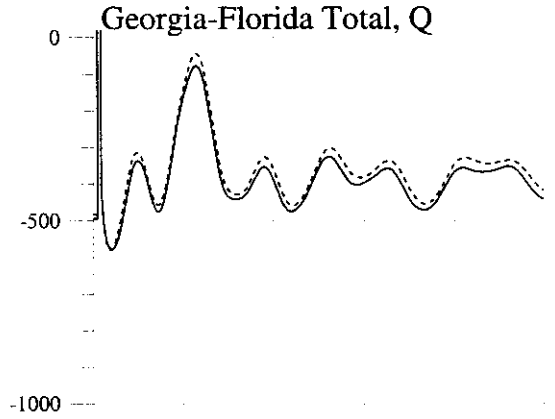
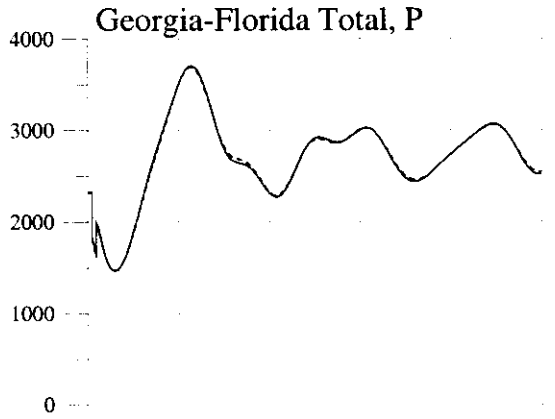




3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



0 2 4 6 8 10

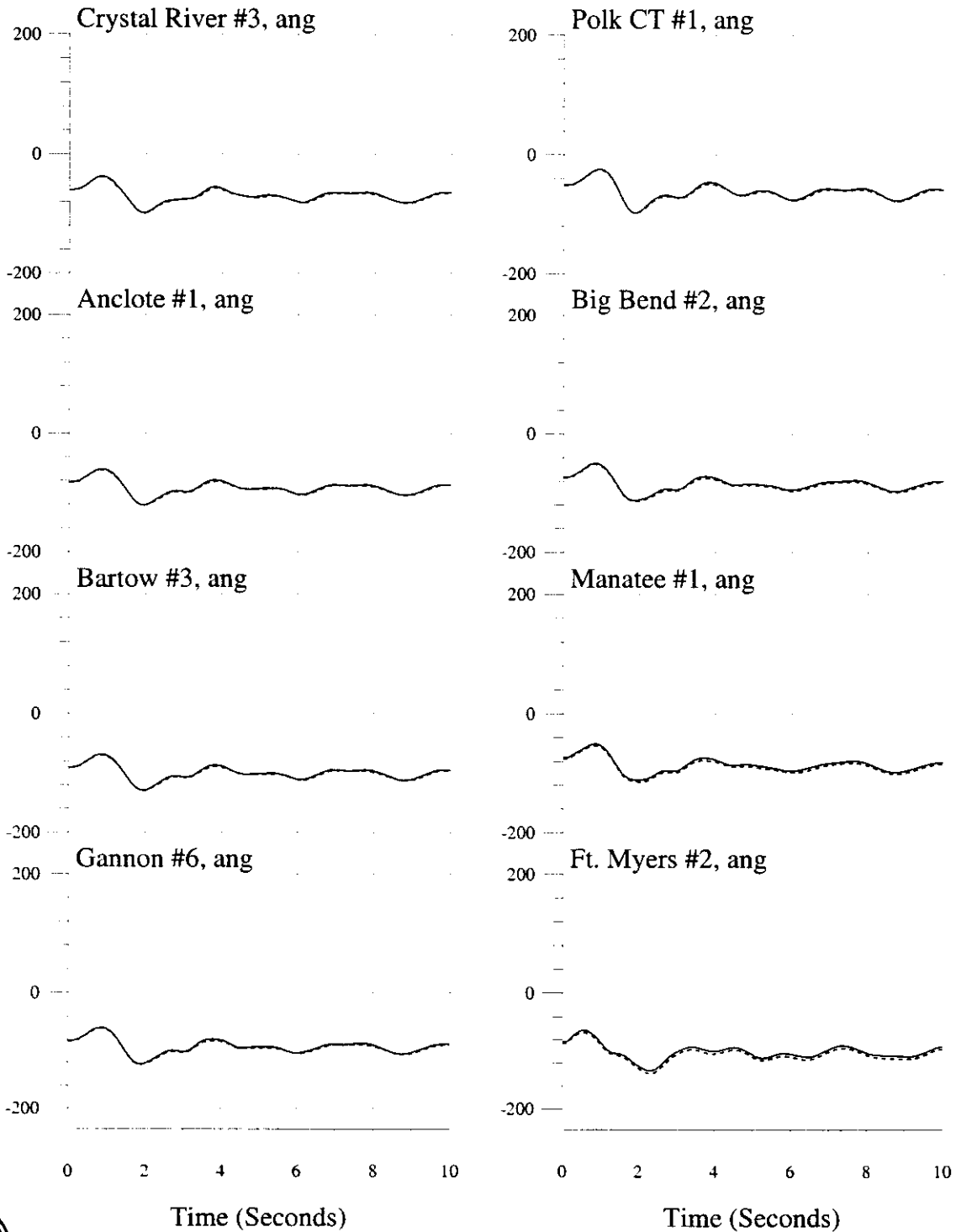
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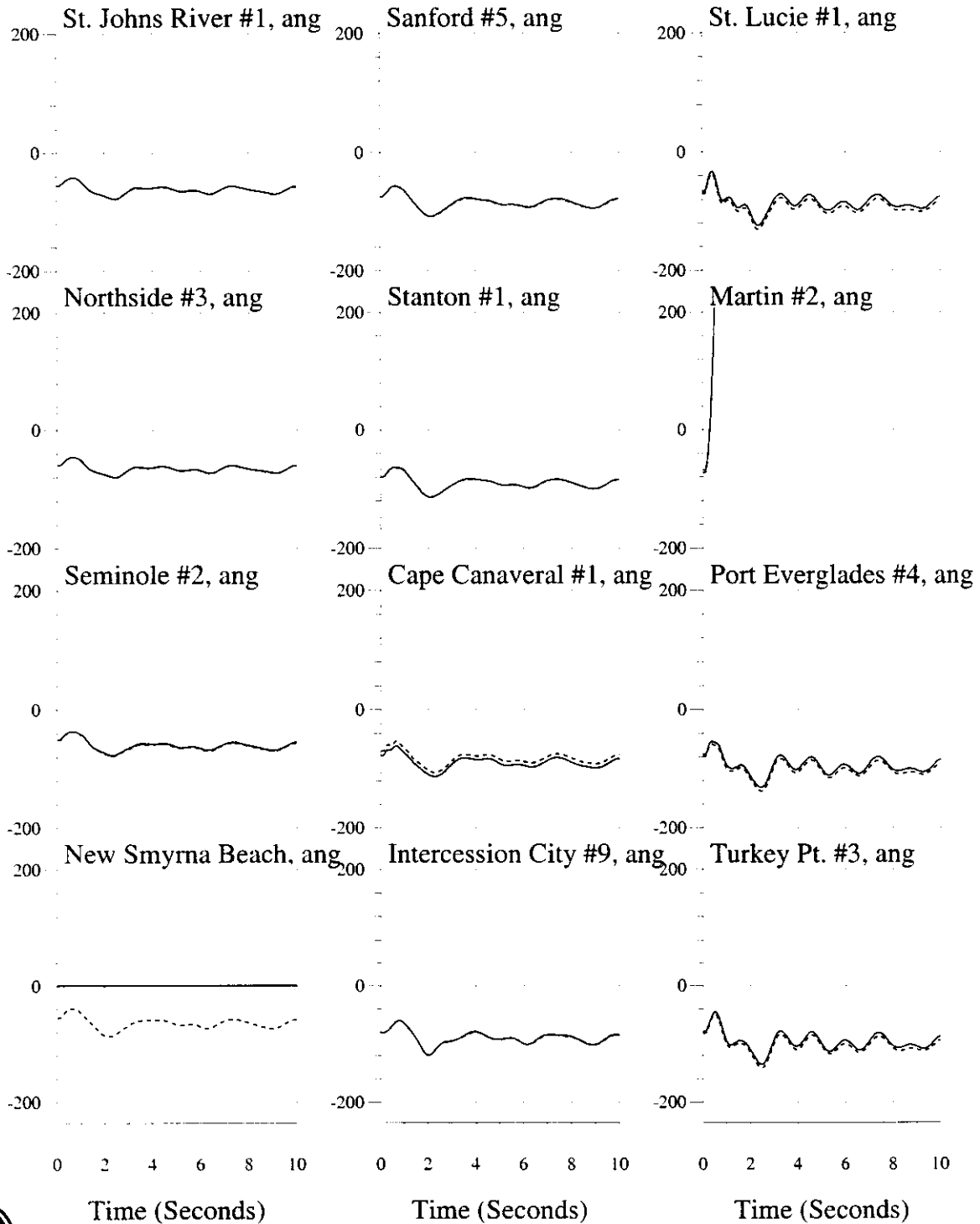
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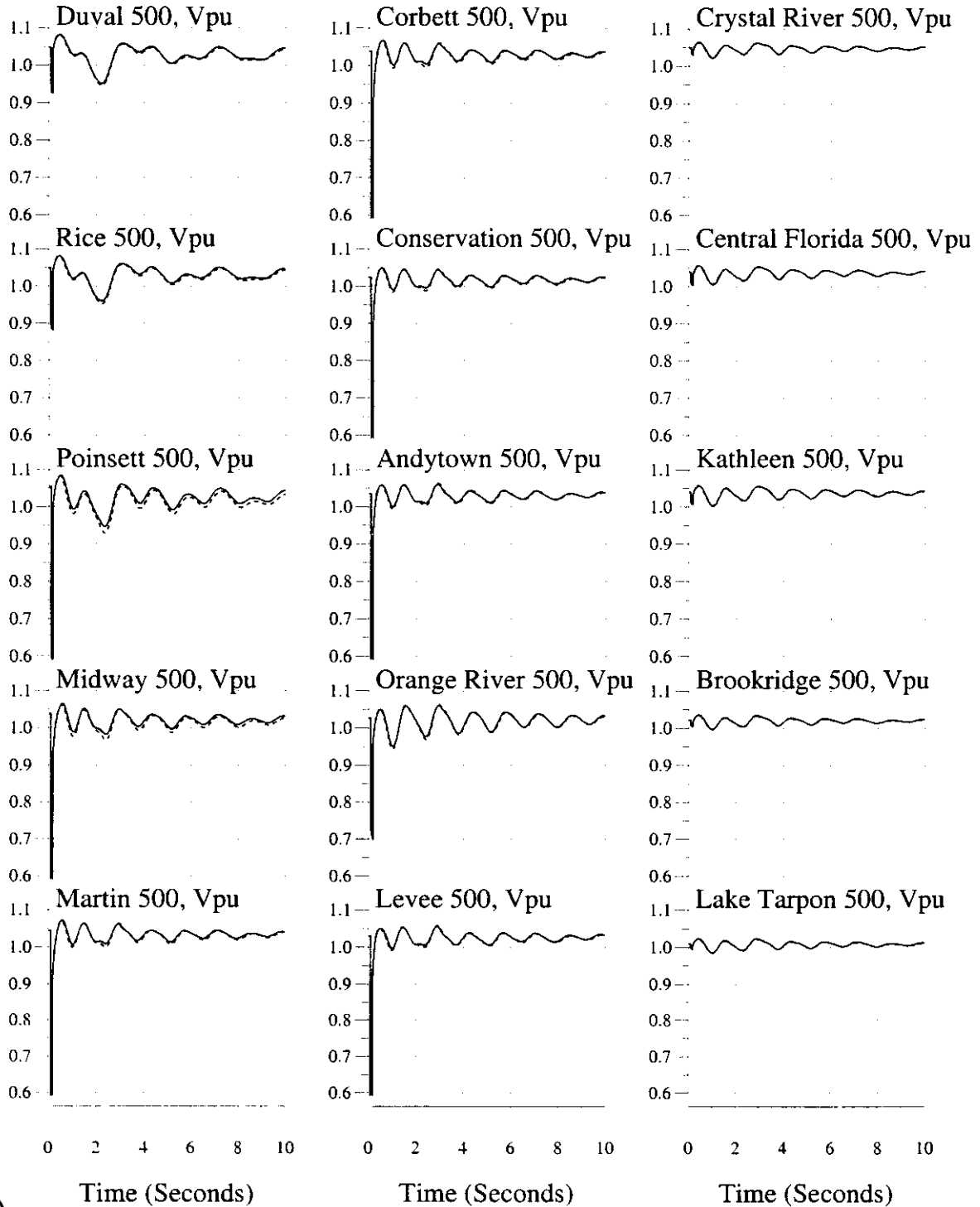
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without



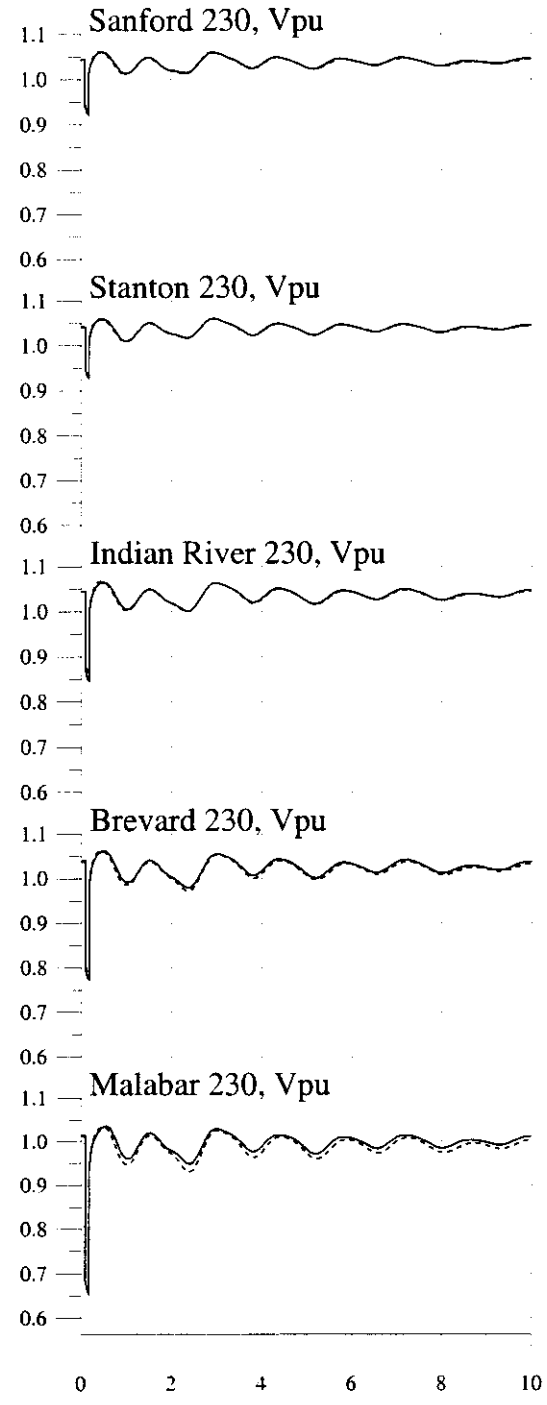
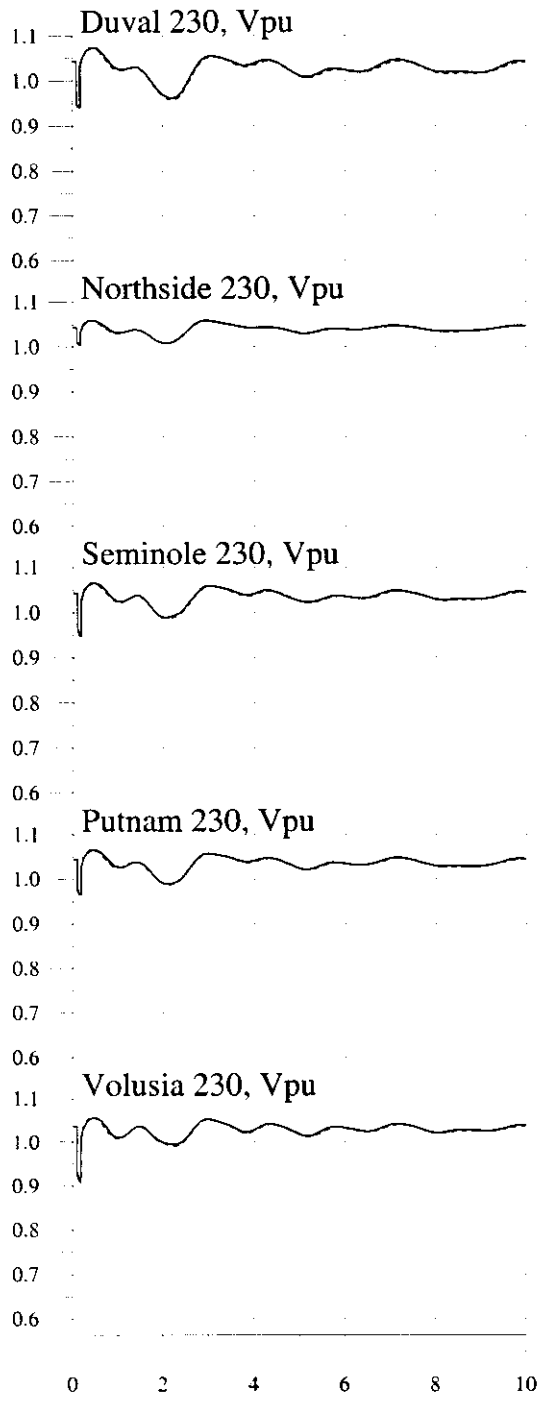
3-ph, 5-cy Fault at Martin 500kV Bus, Trip Martin #2 & GSU, TT Martin-Poinsett 500kV Line  
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 Bus Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without

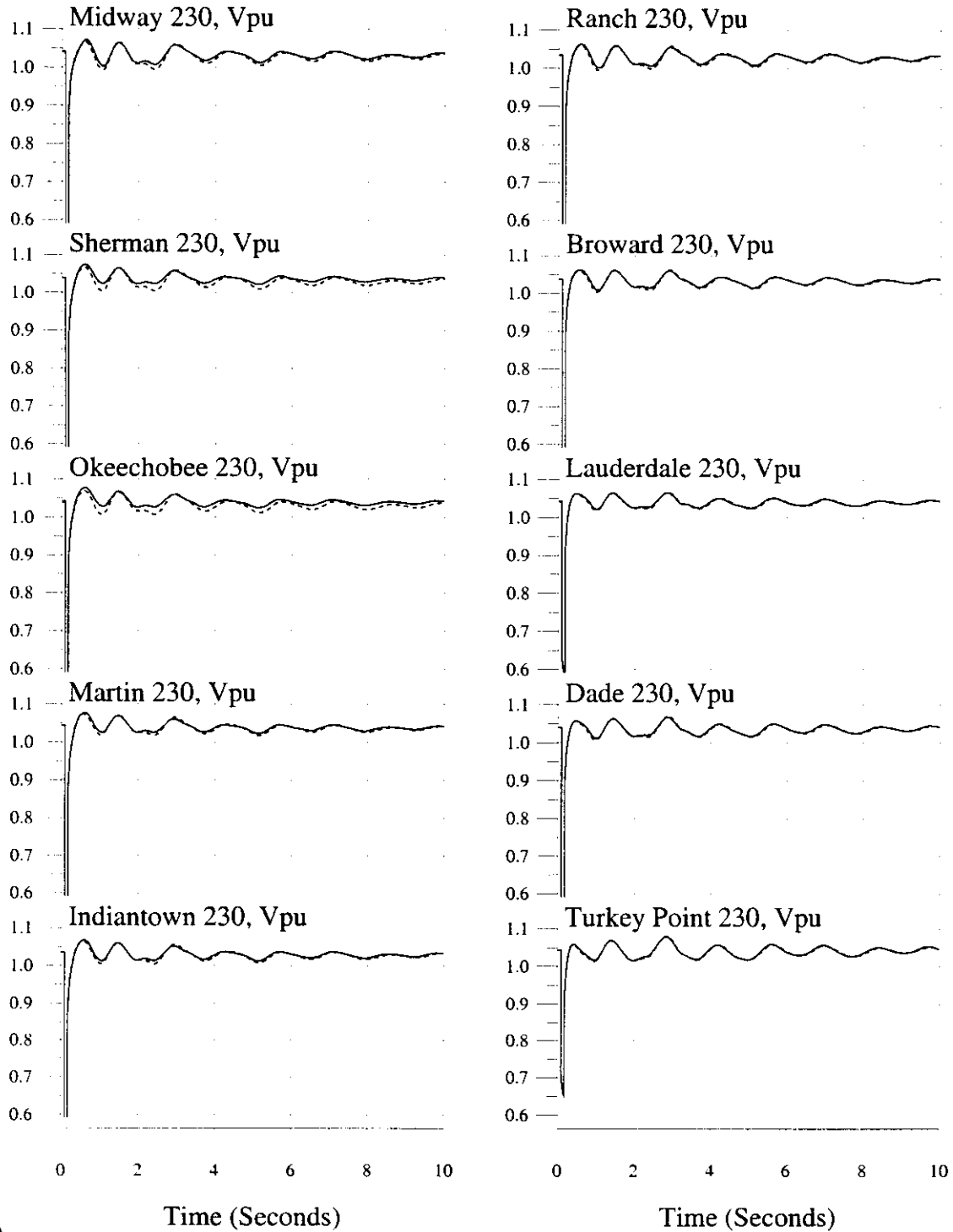


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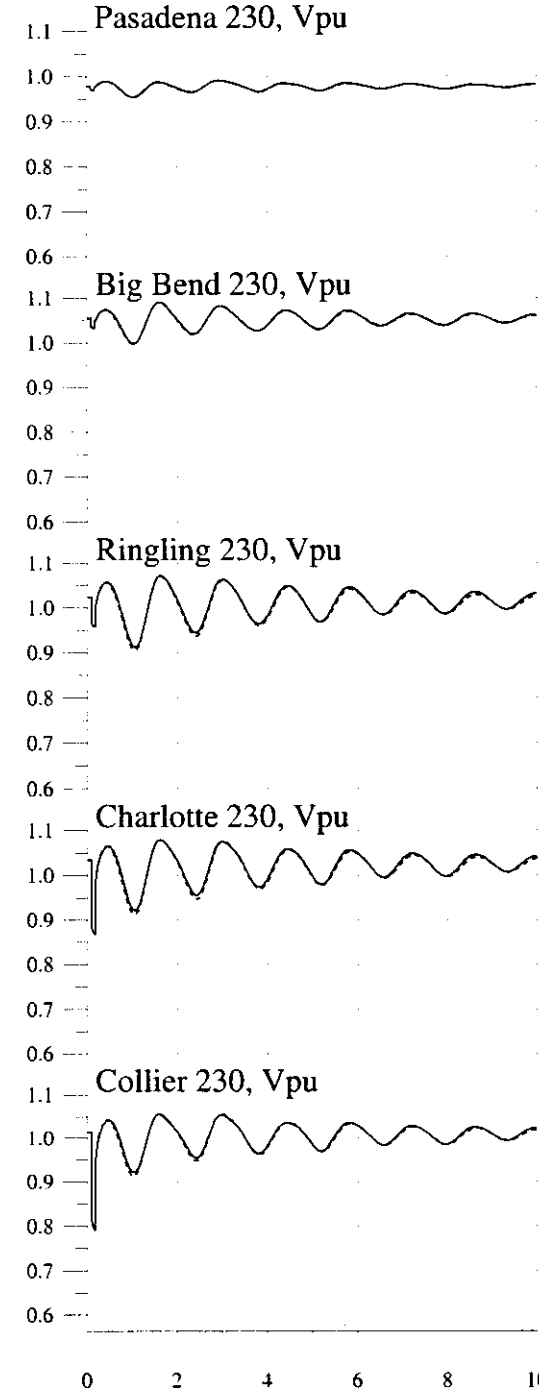
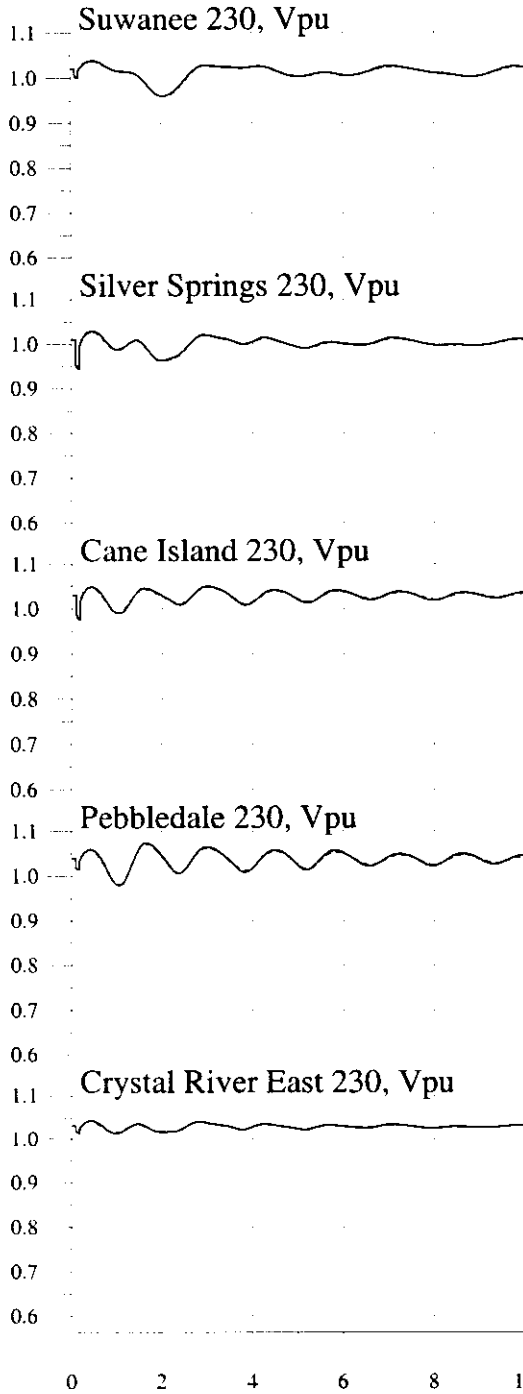
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Time (Seconds)

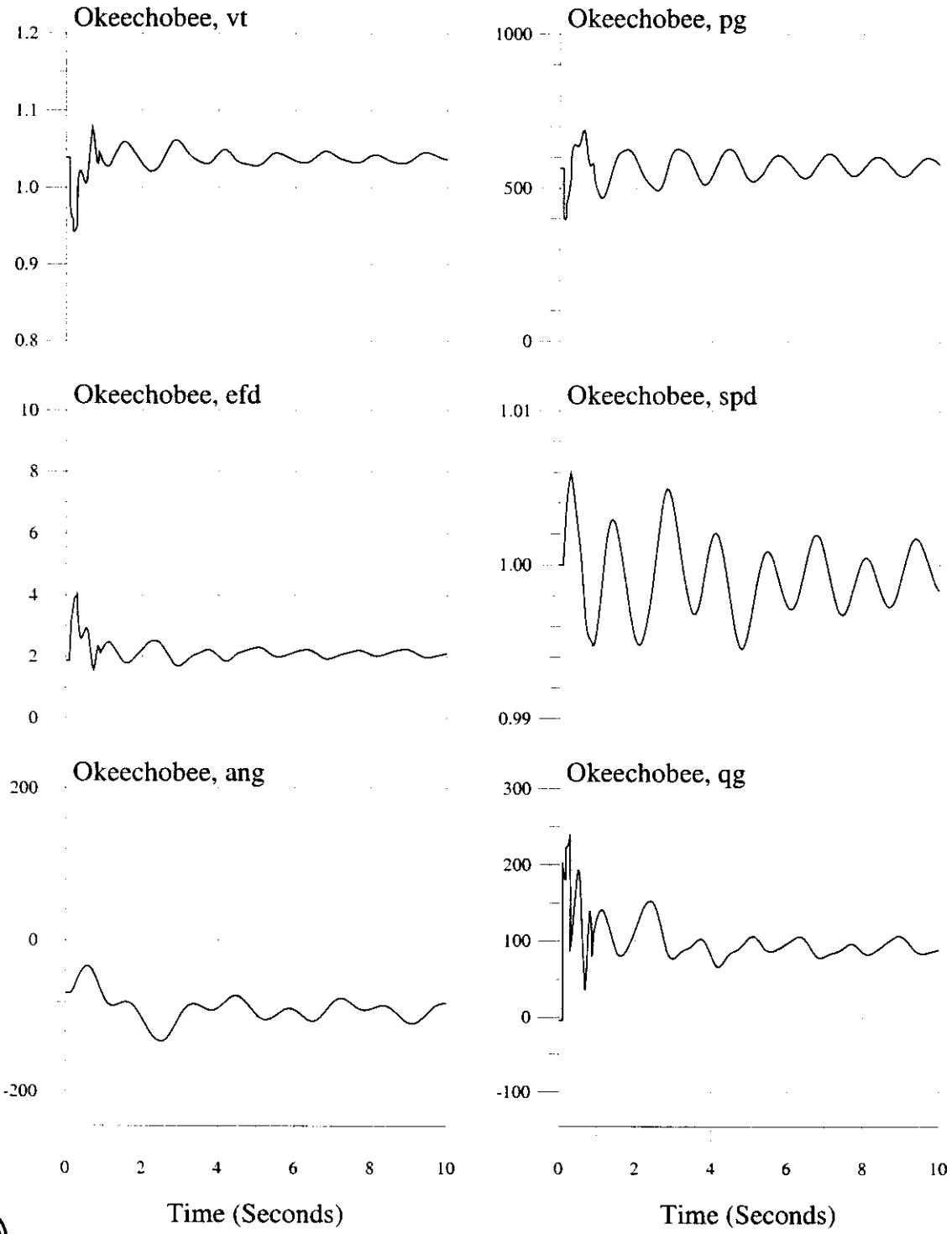
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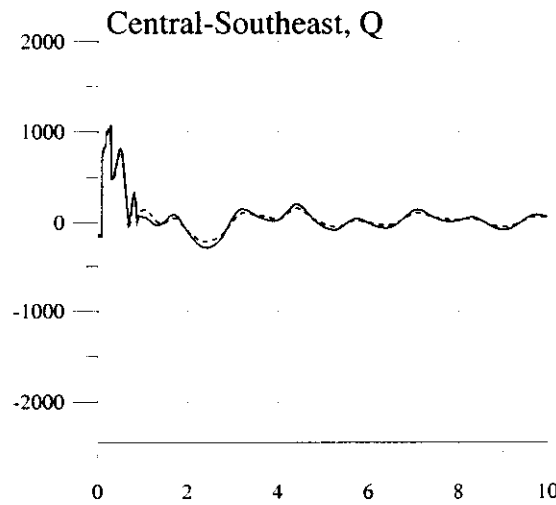
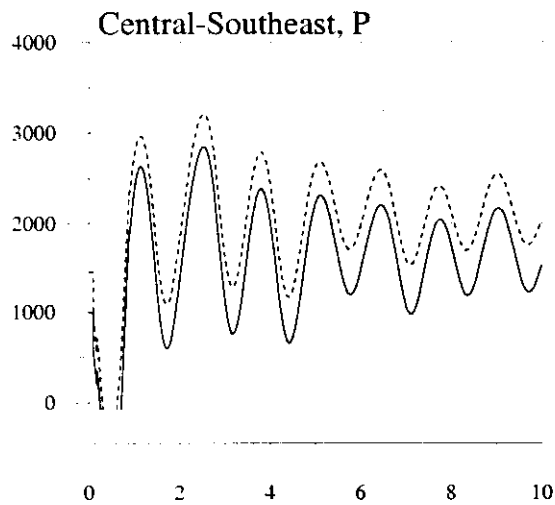
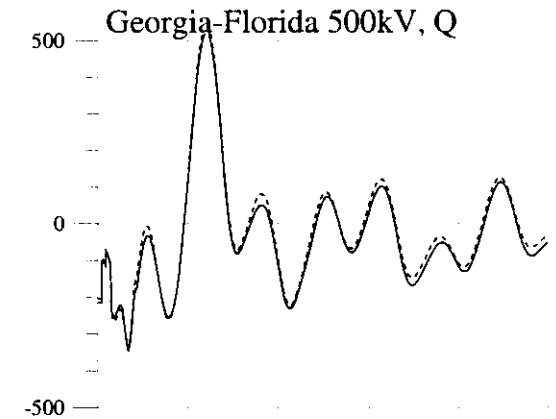
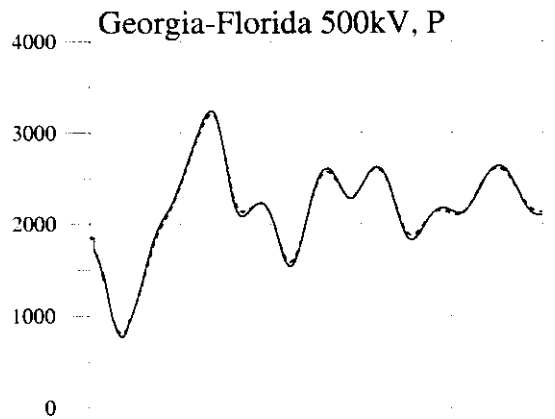
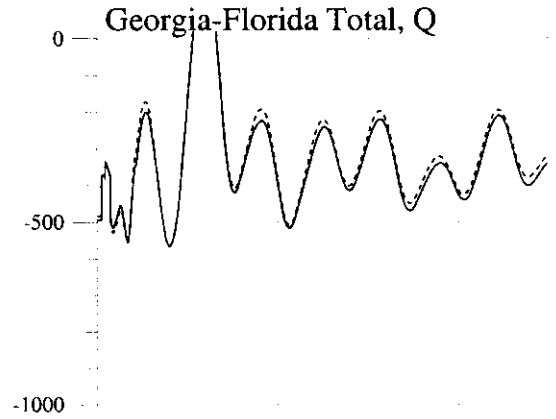
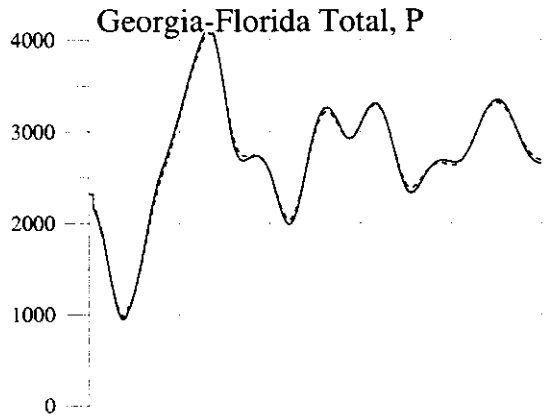


3-ph Fault at Turkey Pt 230kV Bus, Trip TP #3 & GSU @5-cy, Trip TP-Galloway 230kV Line @12cy  
 2003 Winter System, New Smyrna Beach 500MW Plant In-service

Machine & Interface Variables: (\_\_\_) With Okeechobee No. FPL Dispatch, (...) Without



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 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
 Machine & Interface Variables: (—) With Okeechobee No. FPL Dispatch, (...) Without

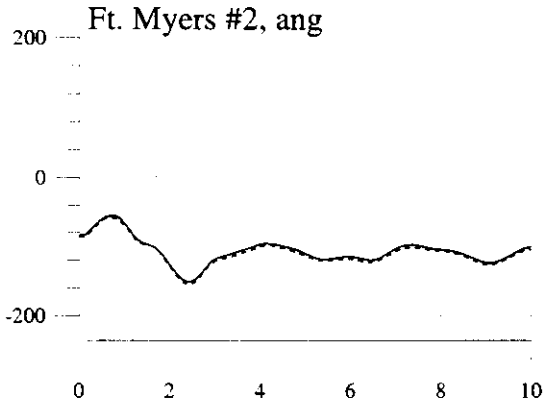
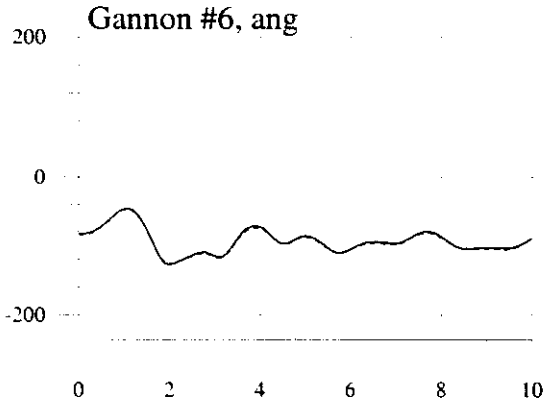
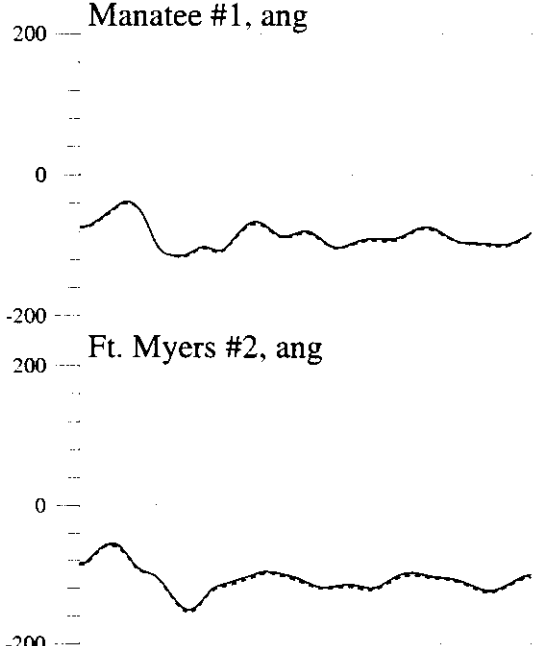
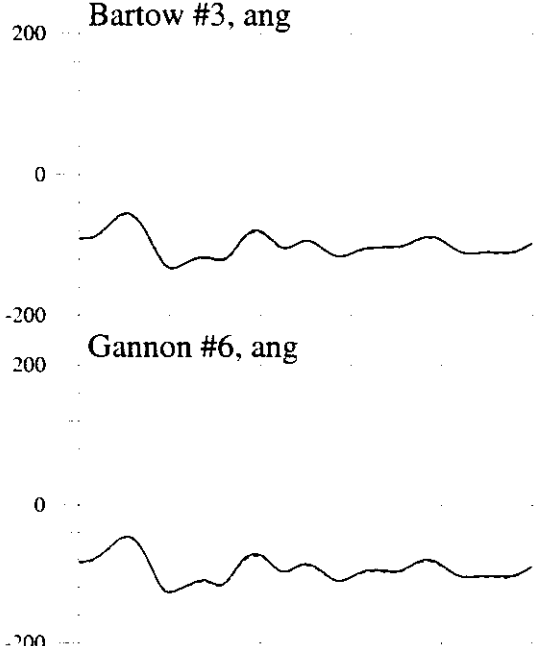
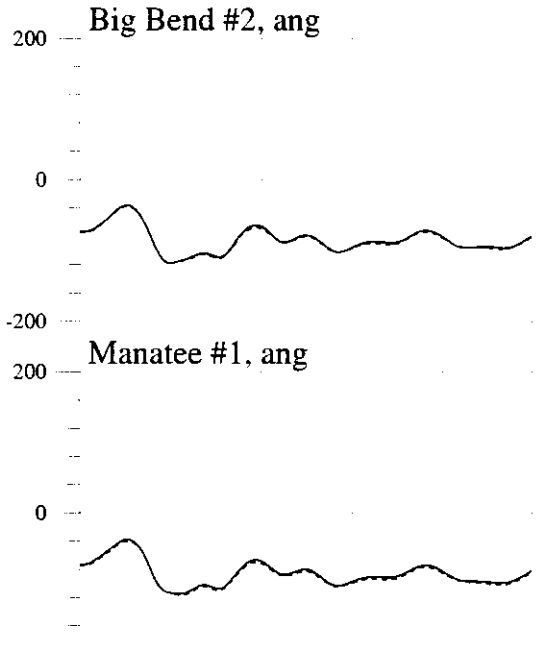
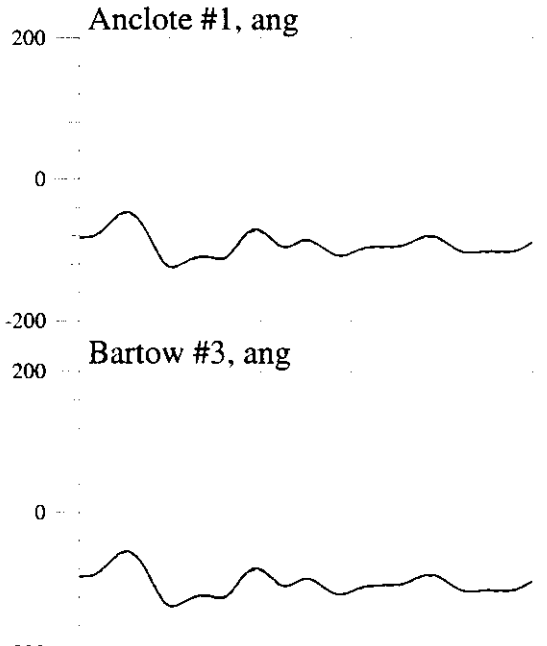
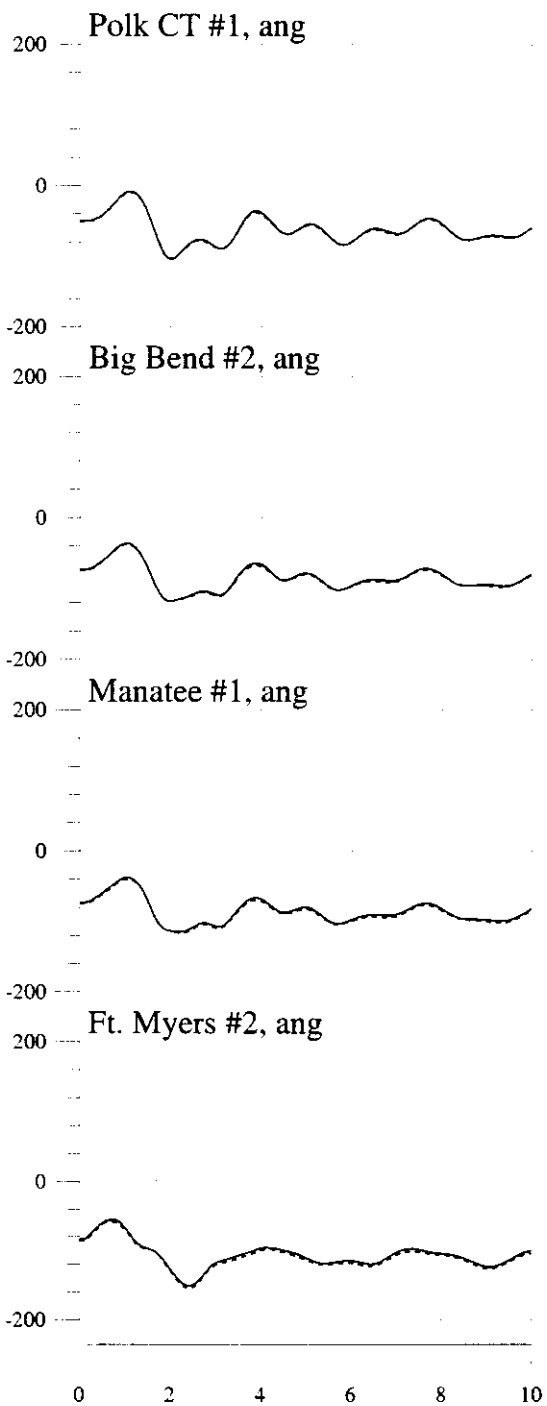
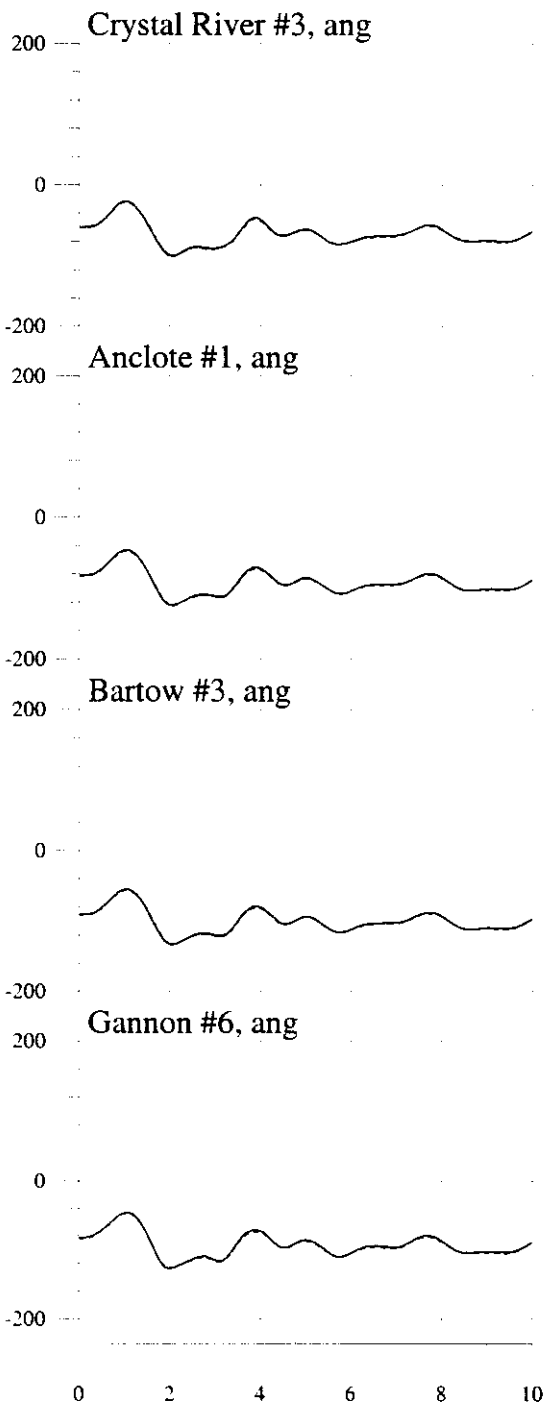


Time (Seconds)

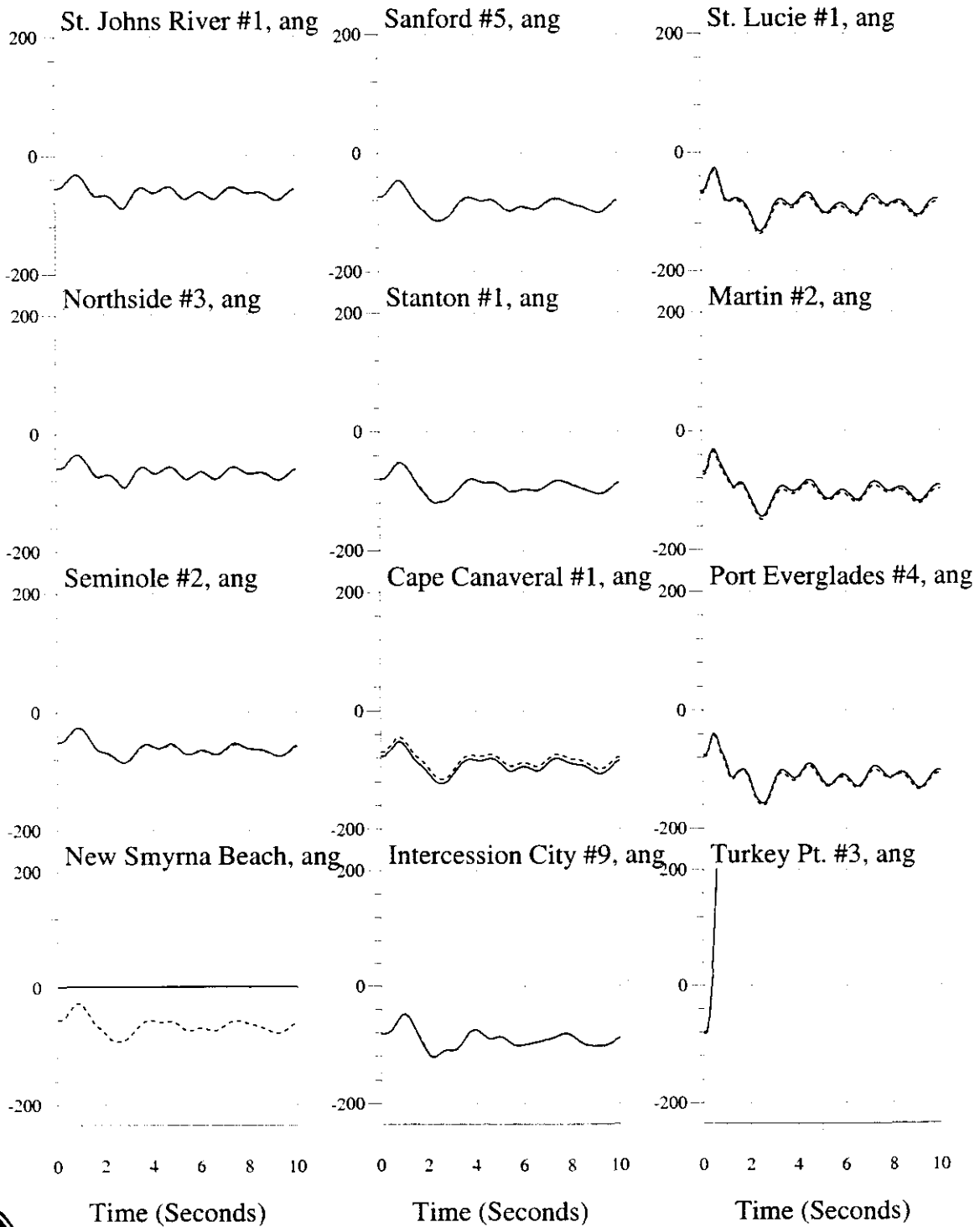
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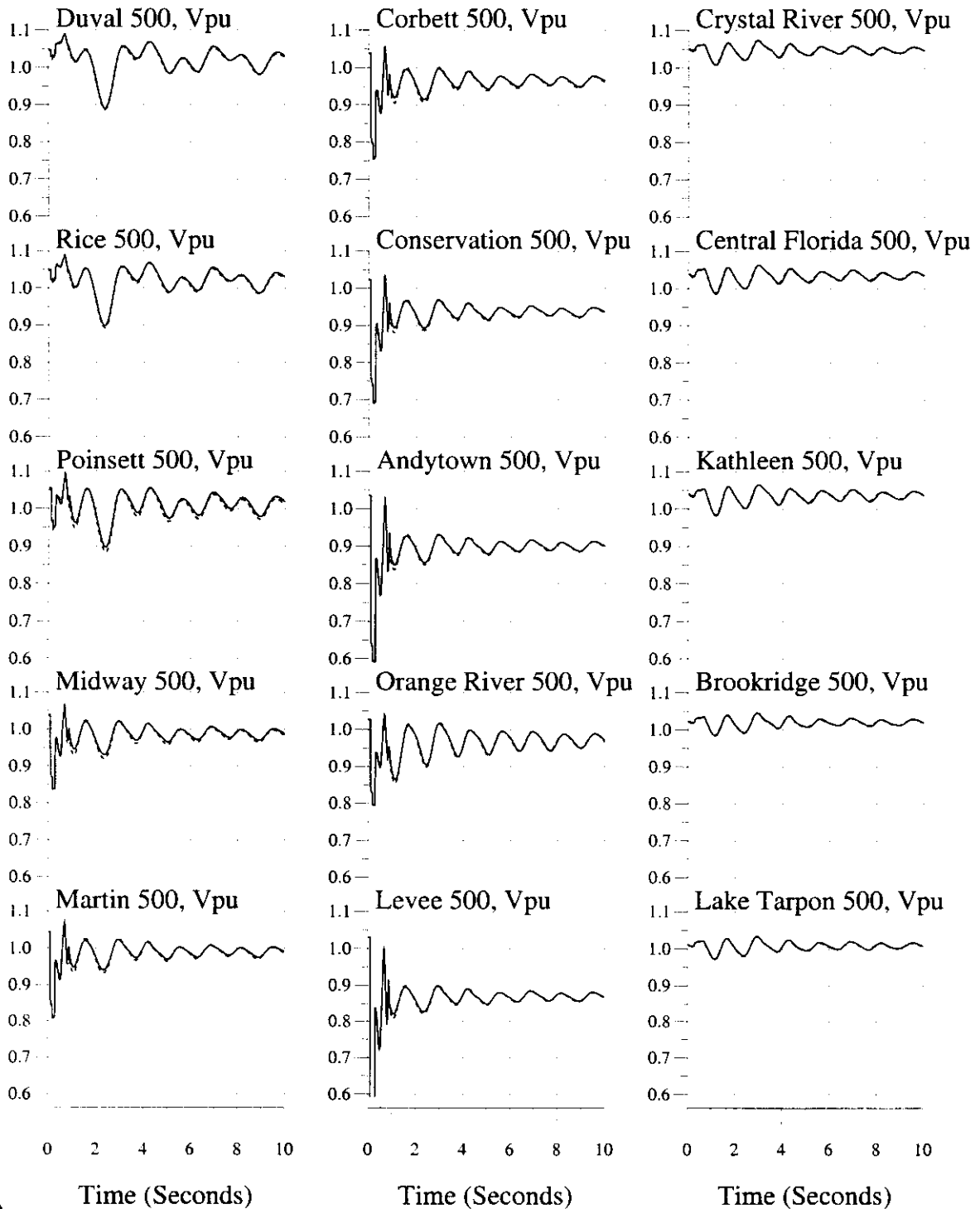
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 2003 Winter System, New Smyrna Beach 500MW Plant In-service  
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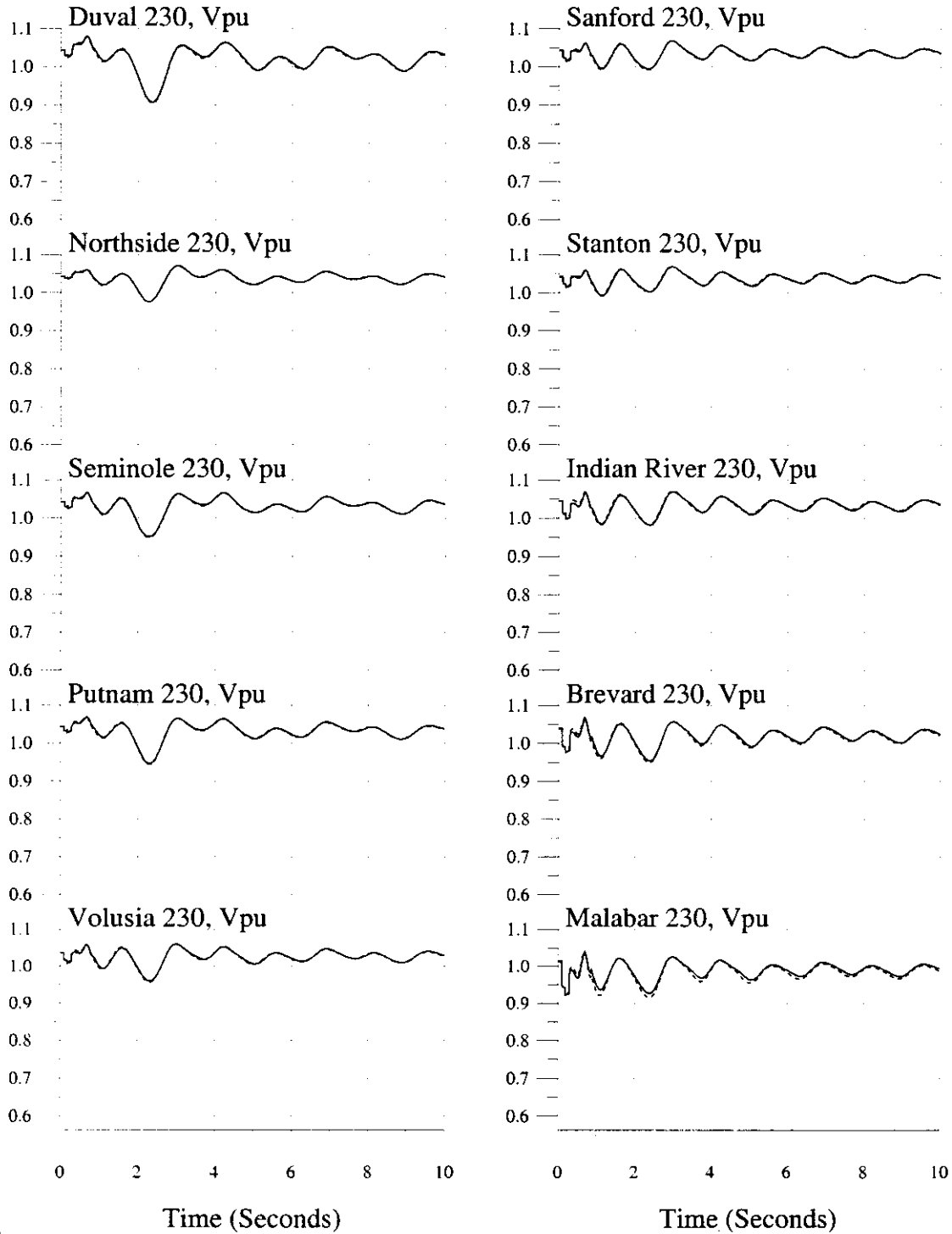
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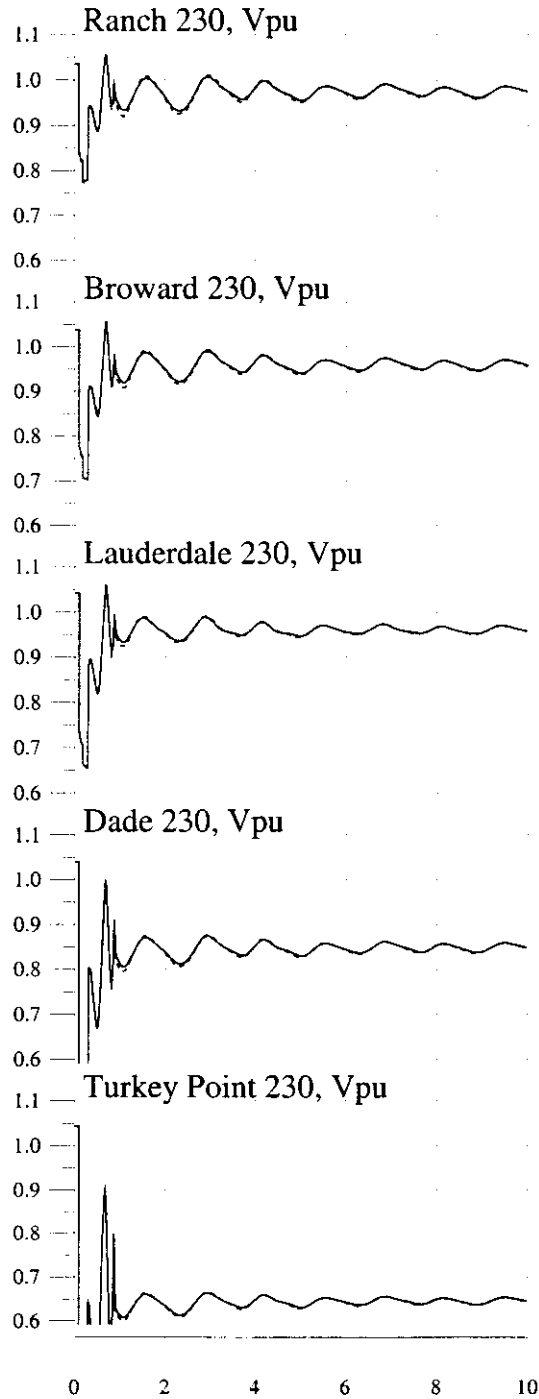
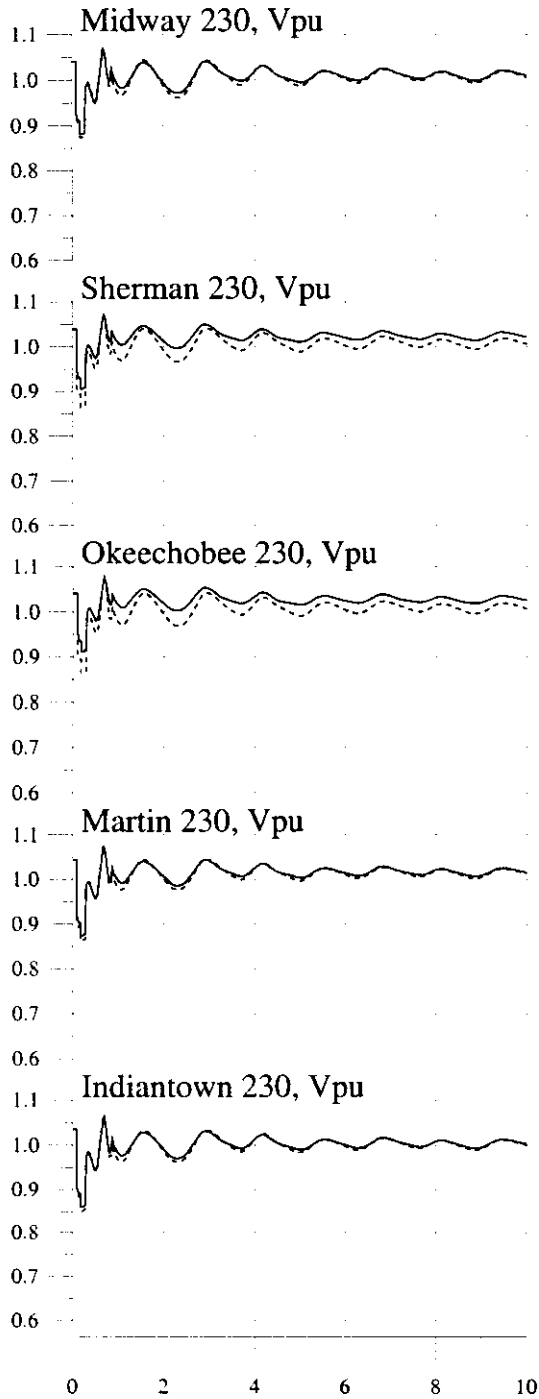
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