Initial Situation
00 UTC 22nd

NHC Operational Analysis
03 UTC 22nd
Location: 31.8°N 56.3°W
Intensity: 75 kt
Central Pressure: 970 mb
Movement: NNE 12 kt
Structure

64 KT....... 35NE 35SE 30SW 30NW
50 KT....... 70NE 90SE 60SW 60NW
34 KT.......180NE 200SE 200SW 175NW
Phase Space Diagram 1
GFS Analysis through 00 UTC 22nd
Phase Space Diagram 2
GFS Analysis through 00 UTC 22nd
Current Status

• How would you describe the cyclone at this point based on the phase space analysis?
GFS Model Forecasts
Model Initialized at 00 UTC 22nd
Analysis Valid at 00 UTC 22nd

MSLP and 10-m winds
850-mb rel vort and winds
MSLP, 500-mb height, abs vort and winds
MSLP and 250-mb winds
Forecast Valid at 00 UTC 23rd

MSLP and 10-m winds

850-mb rel vort and winds

MSLP, 500-mb height, abs vort and winds

MSLP and 250-mb winds
Forecast Valid at 12 UTC 23rd

MSLP and 10-m winds

850-mb rel vort and winds

MSLP, 500-mb height, abs vort and winds

MSLP and 250-mb winds
Forecast Valid at 00 UTC 24th
Forecast Valid at 12 UTC 24th

MSLP and 10-m winds

850-mb rel vort and winds

MSLP, 500-mb height, abs vort and winds

MSLP and 250-mb winds
Forecast Valid at 00 UTC 25th
Forecast Valid at 12 UTC 25th

- MSLP and 10-m winds
- 850-mb rel vort and winds
- MSLP, 500-mb height, abs vort and winds
- MSLP and 250-mb winds
Forecast Valid at 00 UTC 26th

- MSLP and 10-m winds
- 850-mb rel vort and winds
- MSLP, 500-mb height, abs vort and winds
- MSLP and 250-mb winds
GFS Forecast

- When does ET begin?
- When does ET end?