

AE IV&V Test Case TO8_4201

Revision History

Rev. No.	Date	By	Description of Changes
1	4/17/08	DP	Initial release

1. TEST CASE IDENTIFIER

TO8_4201 – Global Grid Ingest, Decode and Display

2. NARRATIVE

Verify proper ingest and decoding and display of GFS ½ degree global grid

3. REFERENCES (Optional)

none

4. FEATURES TO BE TESTED

- Verify that ingest and decoding complete without errors
- Compare decoding of grid is correct by comparing select grid values to NAWIPS decoded values for same grids.
- Verify that global grid displays properly across geographic boundaries
- Verify that CAVE can properly display all GFS forecast times
- Verify that CAVE can properly load and display more than one set of GFS forecast times using D2D pane mechanism
- Verify that CAVE contour and image fill work properly and perform acceptably

AE IV&V Test Case TO8_4201

5. SETUP INSTRUCTIONS

Step	Setup Procedure	Result
1	Usual startup of EDEX servers	OK

6. ACCEPTANCE CRITERIA

Step(s)	Criteria	Result
1	Visually compare output values for consistency	
2	Use "sample" to compare individual data values w/ NAWIPS/GEMPAK	

7. TESTING PROCEDURE

Step	Procedure	Expected Result	Actual Result
1	Ingest global GFS grid (1/2 degree) from GRIB2 format	Error-free report	
2	Verify that grids' metadata are in Postgres db	Psql query shows metadata	
3	Verify that grid data values are in HDF5 repository	Values are there	
4	Request a grid from CAVE via D2D Volume Browser	Failure since D2D not configured to display this grid projection, etc.	
5	Request a grid from CAVE via EDEX script	Grid contours displayed	
6	Compare contour display w/ NAWIPS/GEMPAK result	Contours should be visually comparable	
7	Select "Load as Image" for this grid	Image displayed	
8	Remap data to Northern Hemisphere map scale	Image and contours properly remapped	
9	Verify that contours / image properly displayed across International Dateline and Greenwich Meridian	No discontinuities	
10	Use "sample" to spot check individual grid point values	Values should match baseline (GEMPAK)	
11	Load multiple forecast times	All times should load	
	End of test		