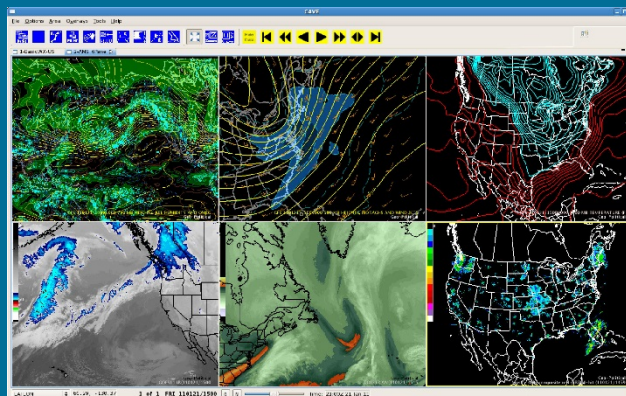
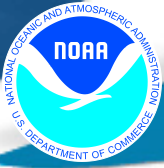


National Hurricane Center

The NHC Transition from NAWIPS to AWIPS2/NCP

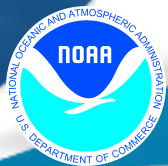




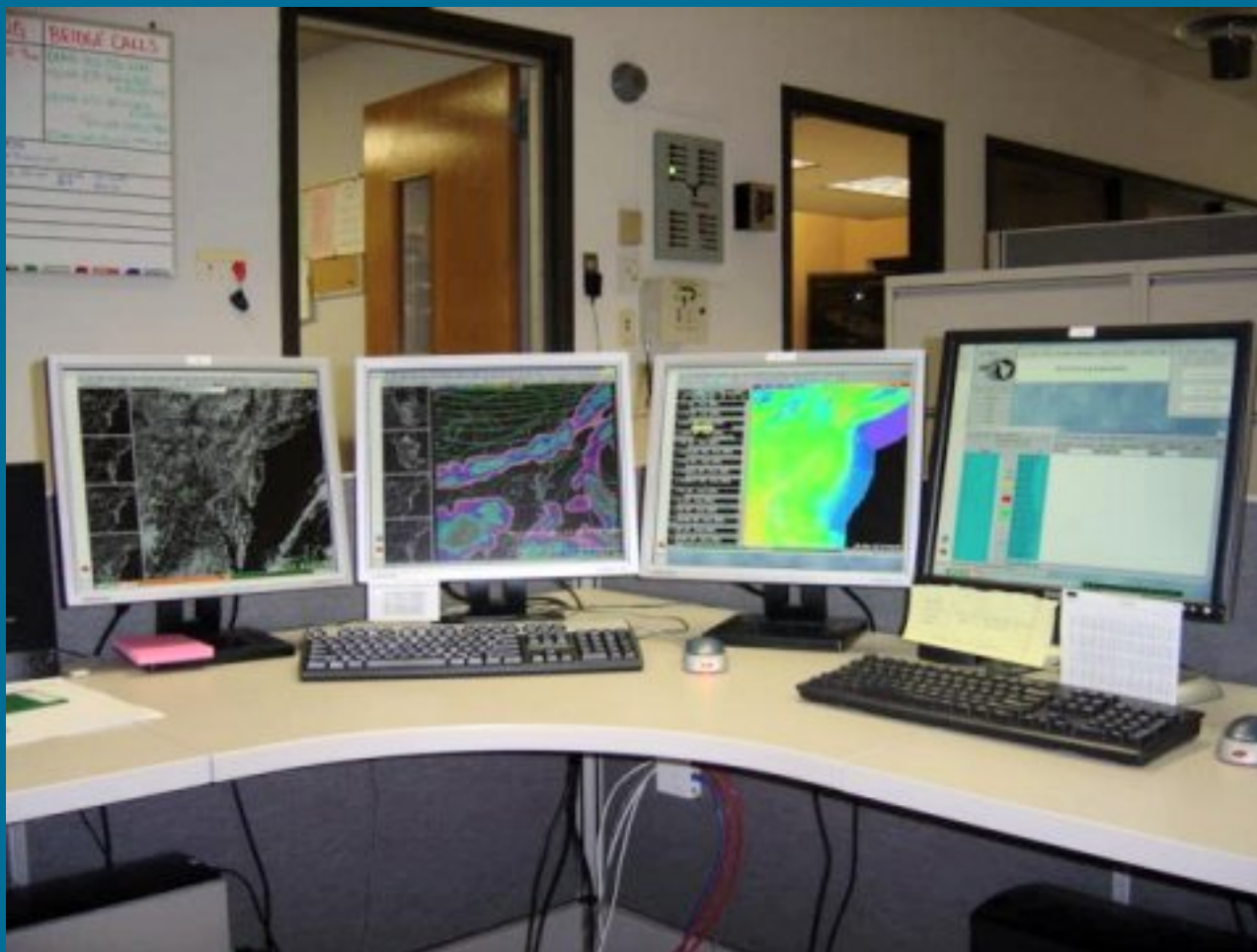
What Is AWIPS2?

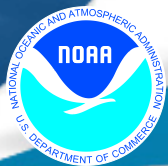


- **Automated Weather Information Processing System**
- **Modern System to support NWS forecast operations at all sites**
- **National Centers, Local Forecast Offices, River Forecast Centers**
- **Service-oriented architecture, meaning frontend user interface (client) is independent of from the supporting backend (services)**
- **Cave Client (display window for data) is a GIS type display system**
- **Common AWIPS Visualization Environment**
- **Services consist of data decoders, datastores and other infrastructures**
- **Software is plugin based technology**
- **Data distributed via satellite broadcast and terrestrial network**



AWIP2 Workstation

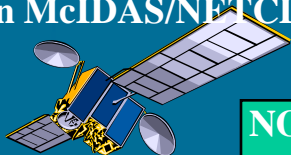




NHC AWIPS2 Data Flow

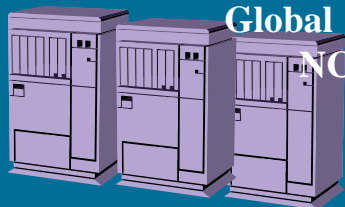


High resolution McIDAS/NETCDF4 data

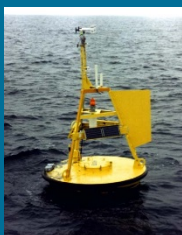


NON-SBN DBNET

Global high resolution
NCEP Models

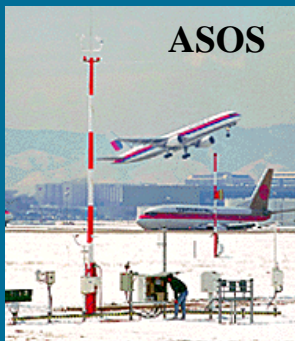


SBN LDM flow



Buoys,
Ships

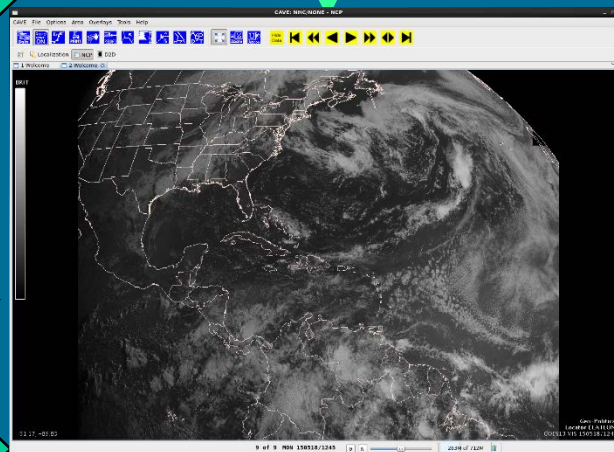
ASOS



NEXRAD



Local NHC data sets
Hurricane Hunter observations



NCP MENUS

GFE
MENUS

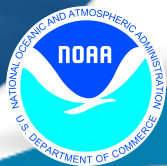
ANALYSIS

PRODUCTS

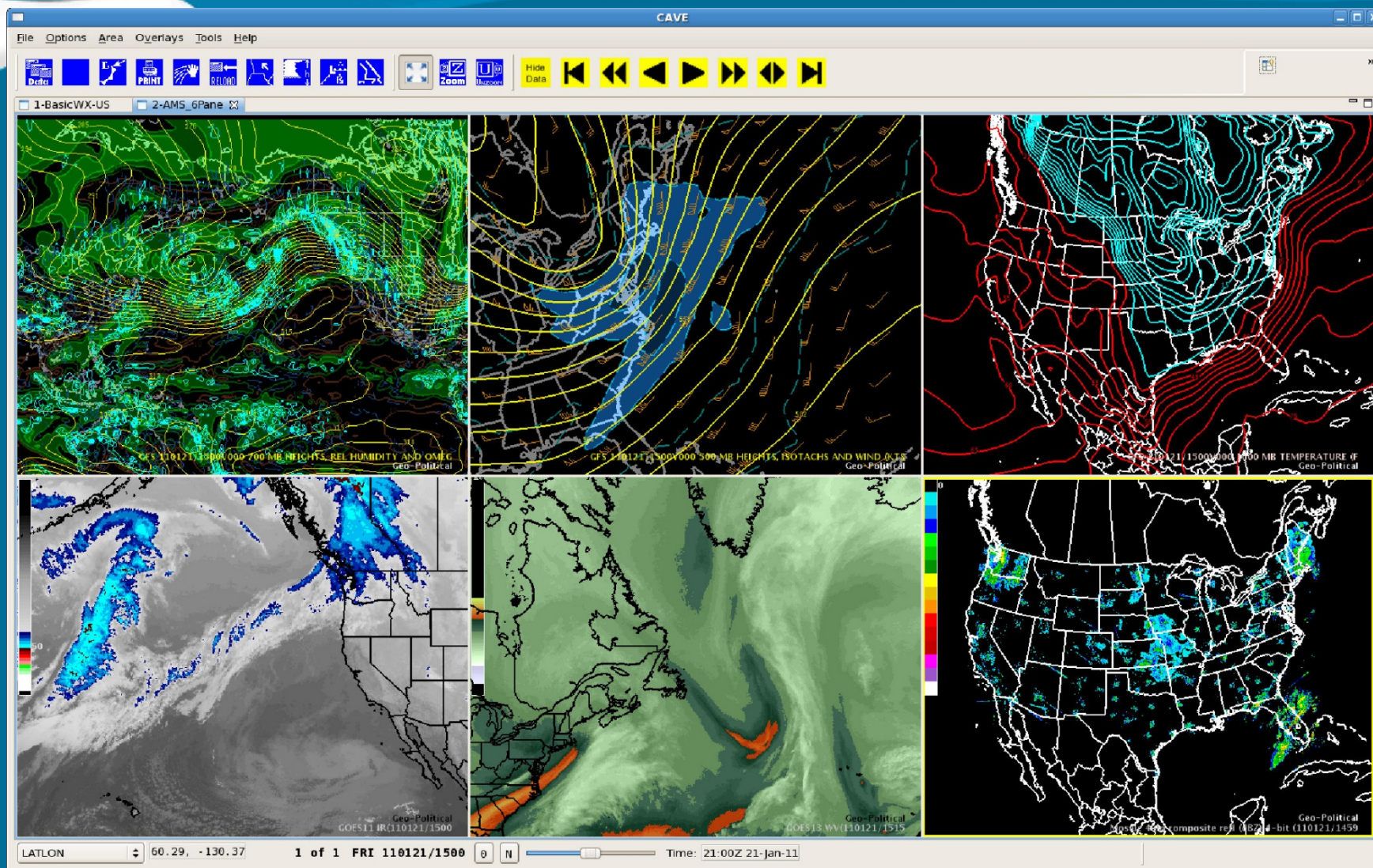
AWIPS Workstations and
Servers

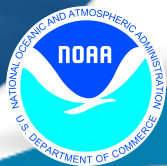
~18 AWIPS Workstations
4 EDEX Servers

Service provided
24 hrs/day,
365 days/yr.

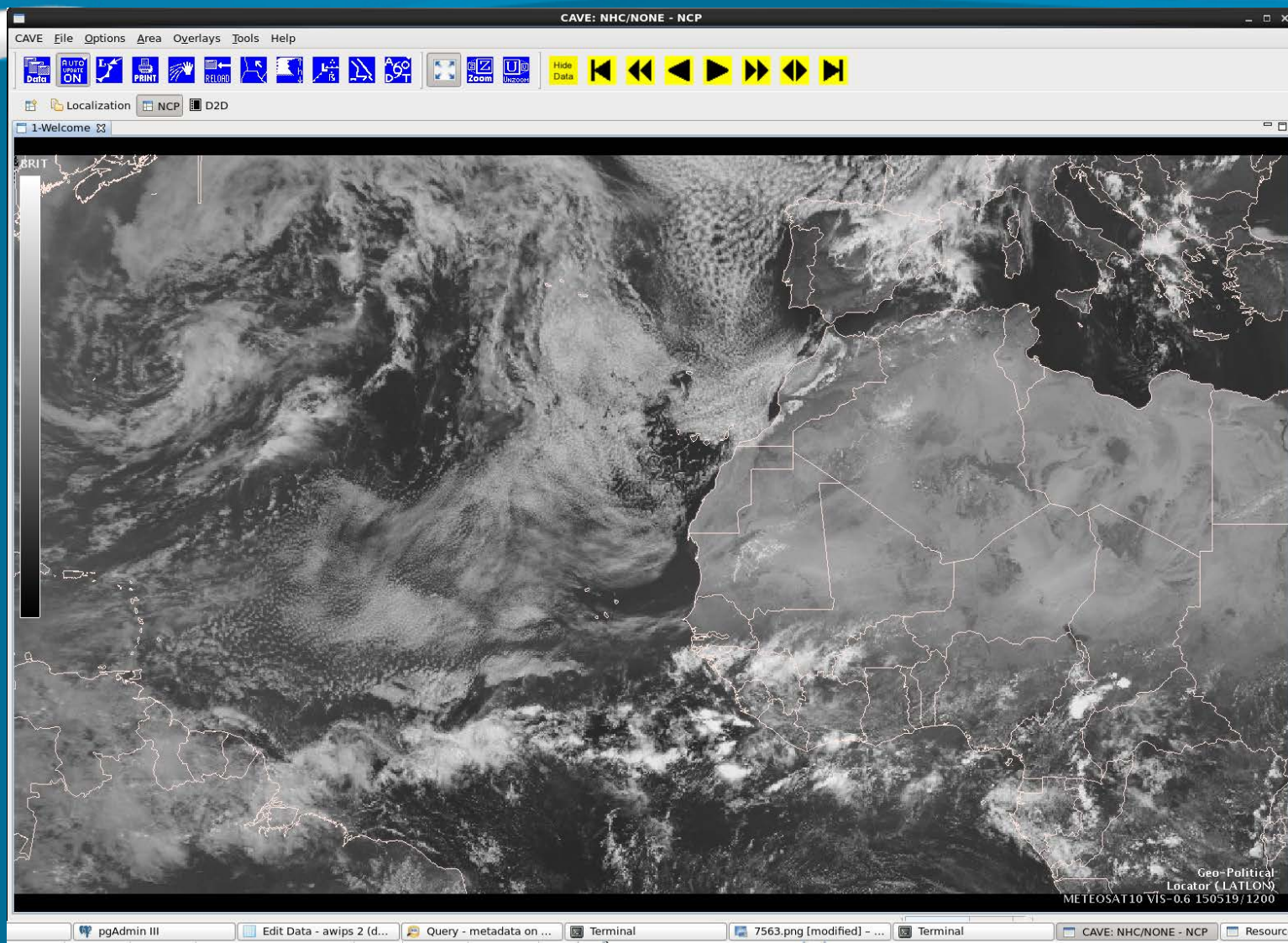


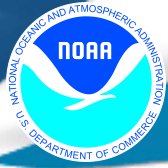
Example of CAVE/NCP Display



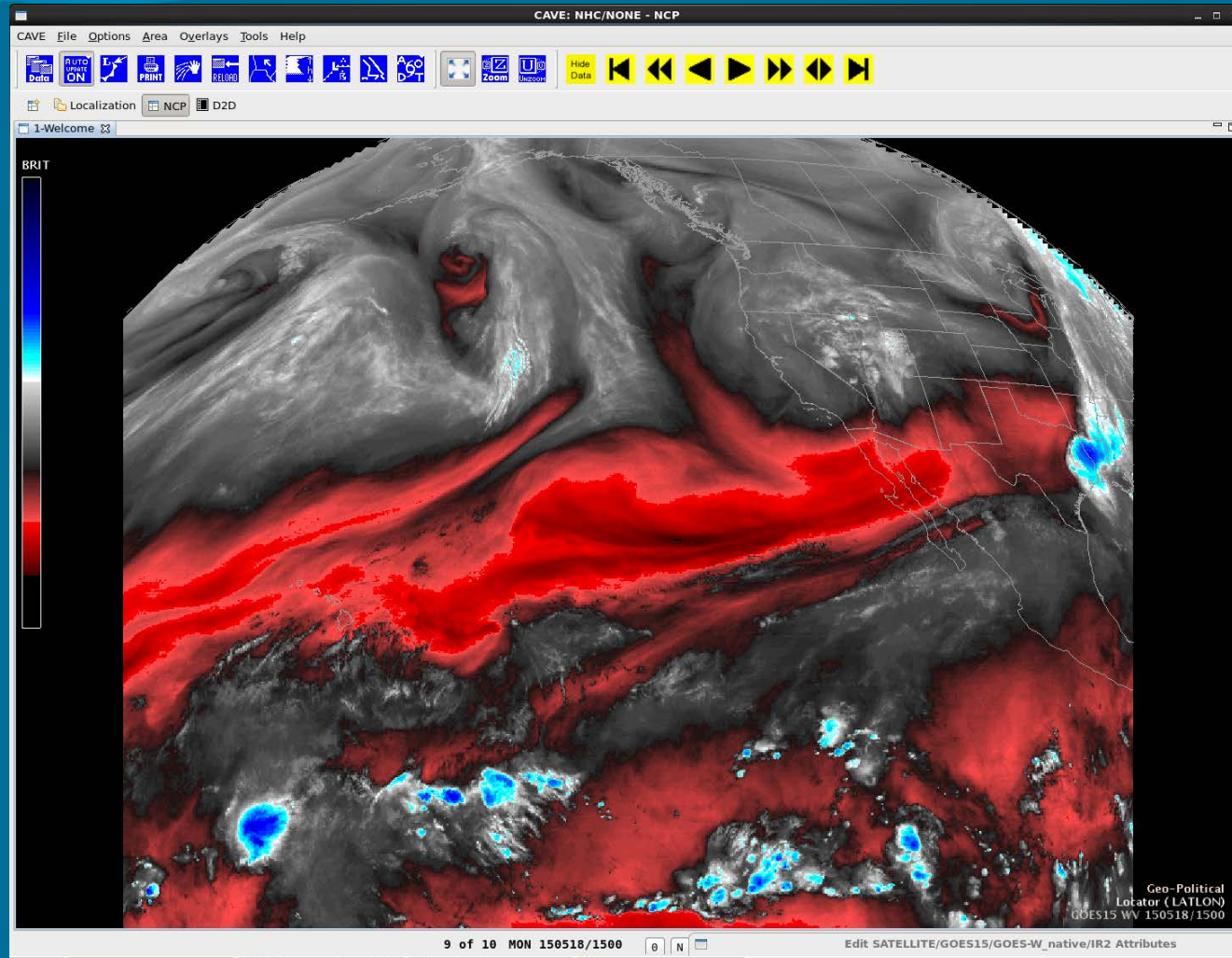


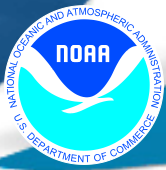
METEOSAT Visible





GOES-W Water Vapor



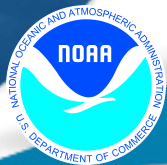


Current Status of NHC AWIPS2 Transition



Summary:

- ~ NHC configured ~80 percent of Non-SBN grib2 last summer for AWIPS2 (EDEX) ingest.
- The vast majority of McIDAS files are already ingesting in real time on the nhcr system. However, need ability to create SPFS.
- NCP Menu configuration using NAWIPS ported restore files is 90 percent complete. Waiting on fixes to increase loading speed.
- GEF Ensemble 20 members represents the largest grib2 data set
- The HWRF and GFDL currently cannot ingest into AWIPS2
- OPC identified a list of critical fixes required to move forward with OTE. These fixes will be included in national releases this year. NHC will begin building SPF's and testing NCP this spring.



The NHC Path Forward



- **Short-term (2016)**

- *Work with OPC who will begin Field Testing NCP this fall*
- *Ensure the SBN feed ingests all required text and radar products*
- *Monitor the non-SBN global model data flow in real time*
- *Finish most of the McIDAS Satellite project*
- *Fine tune NCP menus in conjunction with TAFB and HSU*

- **Long-term (2017)**

- *Rewrite/transition product generation scripts*
- *Ingest Hurricane hunter observations graphically*
- *Monitor and test performance of NCP*
- *Training and transition (based on OPC lessons learned)*