

DRAFT OB7 Release Contents
1/13/2006

- **Release 7.1**
 - **Infrastructure**
 - **Decommission DS**
 - Port Dial-Up Radar, LDAD capability, MHS, GFE
 - **COTS Upgrades (e.g., operating system, gcc compiler)**
 - **D2D, ADAPT, OHD, GFE, Contractor, RFC software**
 - **Time Zone Changes**
 - Name change for Guam (Deploy prior to OB7.1 to Guam)
 - Indiana (Deploy prior to OB7.1 to no more than 3 sites)
 - DST Start/End time changes
 - **Key West Identifier Change (Deployed prior to OB7.1 to selected sites around Key West)**
 - **New Chat Server Client**
 - **Convert RFC Archiver Databases & Software to PostgreSQL**
 - **IFPS Enhancements**
 - Postgres conversion,
 - **Additional Frame Capability (64)**
 - **Display Subset of GFE parameters in D2D**
 - **Installation with Red Hat Package Manager**
 - **GFE**
 - **Data Items**
 - Add the capability to use NCDC climatological data in GFE for display, smart tools, and formatters
 - OPC and TAFB Offshore Gridded Significant Wave Height Forecasts in GFE
 - Add the capability to use Gridded MOS data in GFE for display, smart tools, and formatters
 - **Model name change from ETA to NAM**
 - **Regional Change requests**
 - SRF Formatter
 - **CWF/Infra: provide option to label 24-hr periods with day of week (tk4468)**
 - **Directive Changes (NWS 10-503)**
 - Changes in GFE Practice Mode
 - Temperature Phrasing changes (10-503)
 - Cloud Category Changes (10-503)
 - No upper PoP thresholds for ZFP (10-503)
 - Steady Temperature Phrases (10-503)
 - Sky/Wx/Pop phrasing (10-503)
 - Product Expiration Times (all)
 - SFT addition of nighttime PoPs
 - **This DCS also includes derived requirements and required fmtr infrastructure changes to support the above development and**

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compliance with directives. These generally are small development items. These include:

- Limiting increasing/decreasing wording in Scalar Phrases (tk4112)
- Removing issuanceType option in AFD (tk4461)
- SampleAnalysis: option for getExistingWeightedAggregateCov, getHighestWeightedAggregateCov and noWx_Percentage thresholds (tk4539,4551,4555)
- AFD update section before Discussion section (tk4544)
- includeCities, includeZoneName, cityDescriptor additions to GenericReport (tk4576)
- cmd line variables to override Definition entries (tk4577)
- getPopType refinements in ScalarPhrases (tk4589)
- Allowed Hazards changes for tropical (tk4630)
- ZFP/SAF ordering of wind summary and report Trends (tk4633)
- More complete error recovery from infinite loop (tk4640)
- Sky/Pop/Wx and local effects (tk4552)
- VTEC default mode of "O", except for "X" on MWS
- TCV/CWF VTEC UPG headlines
- FFA list of counties/areas and wording improvements

– **Improvements to Automated testing - Changes to support improved automated support improved testing. This includes:**

- Changing server protocol to accommodate special transactions such as zeroing the VTEC active table and allowing modification of server read-only files. (These would be restricted to the GFETEST user.)
- Adding -a switch to configureTextProducts and ifpServer command line to use alternate afos2awips.txt file for purposes of testing text formatters.
- Allow automated routines to modify read-only files in order to fully test some aspects of formatter configuration (restricted to automated tests and GFETEST user).
- logstream.py logging limited when compared to LogStream for file naming (tk4599)
- changes to scripts to generate release notes, particularly the automated creation of a test matrix document
- ifpServer behavior for GFETEST user, to skip the standard BASE, SITE, User sequence and only look at BASE, User. This would eliminate the need to remove site-level configuration overrides which can cause confusion on the tester's part when the expected results do not occur with the automated tests.

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- **Infrastructure Improvements - Small enhancements for GUI and other Infrastructure operations of GFE involving infrastructure. Improvements includes these type of tasks:**
 - Spell checker enhancement (tk4473)
 - Product Editor generation of segment times in error (tk4538)
 - WindChill/Heat Index tools conform to limits (tk4598)
 - MakeHazard procedure - add descriptors (tk4600)
 - MakeHazard procedure - LB.Y needs to be added (tk4601)
 - MergeHazards procedure - should be writable (tk4608)
 - Ice Desk Configuration for AFC in serverConfig (tk4624)
 - SiteInfo for IWX needs updating (tk4626)
 - Diagnostics for bad wx key or discrete key, show original string (tk4627)
 - configureTextProducts for RFCs should ignore unknown WFO info (tk4614)
 - iscMosaic - add configurable delay for grids for MDL svc bckup (tk4652)

- **Model**
 - **Gridded MOS (CONUS)-5km grid, issued 2x daily**

- **Radar**
 - **Snowfall Accumulation Product**

- **Aviation Forecast Preparation System (AVNFPS) Version 3.2**
 - Use CCFP to monitor TAFs,
 - Enhance TAF QC,
 - Support extended (30-h) TAF,
 - Support ceiling and visibility grids experiment,
 - Overhaul TWEB QC routines

- **Satellite**
 - **Polar Visible and IR Imagery**

- **RSA Modifications**
 - Tabular text application
 - LDAD storage changes to accommodate more frequent reports
 - Time Series changes to ordinate (y-axis) labeling
 - Volume Browser
 - accommodation for feet and ft AGL in VB height scales
 - on-the-fly analysis of mesonet data in VB
 - radar data avbl in VB for cross sections, etc.
 - range rings extension
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- **LDADLAPS/MSAS**

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- **Software maintenance**
 - **DRs**
 - **OB6.Final Repair Release DRs**

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- Release 7.2
 - **COTS Change**
 - **Degib 1.75+**
 - **Radar**
 - **Plan View Display of VWP**
 - **DVL low value/linear scale change**
 - **Generate products for non-assoc. user requests (e.g, RCS, VCS, ULR, USP)**
 - **RDA/SZ-2 Range Unfolding VCPs**
 - **All Tilts Navigation improvements**
 - **Mesocyclone Detection Algorithm**
 - **Send environmental data from AWIPS to RPG**
 - **Add products to TDWR SPG**
 - candidates are: composite reflectivity (CZ and/or ULR), VAD wind profile (VWP), Vertically Integrated Liquid (VIL).
 - **Model data**
 - **GFS BUFR Sounding Data**
 - **Full suite of SREF products for CONUS and OCONUS**
 - **All 40 km RUC products upgraded to 13 km**
 - **LAMP Products (Text, BUFR, gridded)**
 - **OPC and TAFB Offshore Gridded Significant Wave Height Forecasts**
 - **Analysis of record (Real-Time Mesoscale Analysis – RTMA)**
 - **Simulated Reflectivity from WRF**
 - **High Resolution Global SST Analysis**
 - **SPC Convective Outlook**
 - **GOES Low Cloud Base**
 - **Hydrology**
 - **Operational Implementation of Distributed Hydrologic Modeling**
 - Includes display menu and **map menu changes**
 - **WHFS HydroView Enhancement to Replace “Mapper”**
 - **Integration of RFC QPE tools into a common National System**
 - **Satellite**
 - **Polar Microwave Products**
 - **Cloud Amount DPI**
 - **NWR**
 - **Develop Universal Formatter (UFOR) for CRS**
 - Improvements to NWRWAVES
 - **Decision Assistance**

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- **SCAN Enhancements**
- **SAFESEAS Enhancements**
- **Fog Monitor**
- **FFMP Enhancements**
- **Guardian**
- **System for Nowcasting Of Winter Weather (SNOW)**
- **LSR Enhancements**

- **Aviation Forecast Preparation System (AVNFPS)**
 - **TBD**

- **GFE**
 - **Data items**
 - **Directives**
 - **Regional Change requests**
 - FWF Enhancements
 - FWS enhancement for ignition time additions
 - Barker/getHighestAggregateCov option
 - CR Heavy precip phrase
 - ER Label 24-hr periods in CWF
 - Add FWS "useRH"
 - **Improvements to Automated testing**
 - **Infrastructure Improvements**

- **Hydro VTEC**
 - **X number of DRs**

- **Infrastructure**
 - **Directive Changes (TBD)**
 - Test/Practice Mode
 - **IFPS**
 - Service Backup Enhancements
 - Remove Obsolete code
 - **Decommission WWA**
 - **Intelligent Purger Enhancements**
 - **Remove WSFO logic from localization**

- **Software maintenance**
 - **DRs from previous releases**
 - FSL (60), MDL (40), SEC (80), OHD (39)