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PNSWSH

Technical Implementation Notice 15-15
NOAA's National Ocean Service Headquarters Washington DC
Relayed by National Weather Service Headquarters Washington DC
710 AM EDT Fri Mar 27 2015

To: Subscribers:
          -Family of Services
          -NOAA Weather Wire Service
          -Emergency Managers Weather Information Network
          -NOAAPort
          Other NWS and NOS Partners, Users and Employees

From: Frank Aikman, Chief
          Marine Modeling and Analysis Programs
          NOS Office of Coast Survey

Subject: Addition of ESTOFS Pacific over the SBN and NOAAPort and GRIB
Encoding Change to ESTOFS Pacific on NCEP Servers: Effective June 9, 2015

Effective June 9, 2015, beginning with the 1200 Coordinated Universal Time
(UTC) cycle, the Extratropical Surge and Tide Operational Forecast System
(ESTOFS) Pacific will be added to the Satellite Broadcast Network (SBN)
and NOAAPort. These grids will be disseminated in gridded binary version
two (GRIB2) format. The GRIB2 header for grids will be updated so that
the Process ID identifies the Extra-tropical Storm Surge Pacific Domain.
The Process ID identifier will change from 14 to 17 on the National
Centers for Environmental Prediction's (NCEP's) servers.

For technical details about ESTOFS, please see: Technical Information
Notice (TIN) 14-27:

https://www.weather.gov/media/notification/tins/tin14-27estofs_pac.pdf

ESTOFS Pacific output is reprojected from the ADvanced CIRCulation
(ADCIRC) native finite element grid to the 2.5 km National Digital
Forecast Database (NDFD) Continental United States (CONUS) grid for the
west coast, 2.5 km NDFD Hawaii grid, and six km NDFD Alaska grid.

GRIB2 files are created for each hourly prediction during a forecast
cycle, consisting of records of combined water level (surge with tide),
harmonic tidal prediction (astronomical tides), and sub-tidal water levels
(the isolated surge). GRIB2 files will be available 4 1/2 to 5 1/2 hours
after the synoptic time (00, 06, 12, 18 UTC). The per cycle data volume
will be approximately 412 MB.

The World Meteorological Organization (WMO) Headings for these products
will be as follows:

T1: Data Format of GRIB2 - E
T2: Parameter code - C, E, or H
A1: Grid code - A for Alaska, D for CONUS (west coast), H for Hawaii

A2: Forecast time interval- one of ABCDEFGHIJKLMNOPQRSTUVWXYZ
II: Layer or level: 88
CCCC: KWBM

For a complete listing of ESTOFS Pacific WMO Headers, please refer to the
following webpage:

http://www.nws.noaa.gov/os/images/estof_pac.pdf

ESTOFS Pacific is also available as netCDF and GRIB2 files via the NCEP
server at:

http://www.ftp.ncep.noaa.gov/data/nccf/com/estofs/prod
ftp://ftp.ncep.noaa.gov/pub/data/nccf/com/estofs/prod

ESTOFS Pacific GRIB2 output is also disseminated via NCEP's NOAA
Operational Model Archive and Distribution System (NOMADS) server at:

http://nomads.ncep.noaa.gov/

For questions concerning the technical details of ESTOFS, contact:

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For questions regarding the dataflow aspect of ESTOFS, contact:

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National Technical Implementation Notices are online at:

https://www.weather.gov/notification/archive

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