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Public Information Statement 20-19  
NOAA's National Ocean Service Headquarters Silver Spring MD  
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From:       Edward Myers  
              Chief, Coastal Marine Modeling Branch  
              NOS/Coast Survey Development Laboratory

Subject: Soliciting Public Comments on the Proposed Upgrade of  
the ESTOFS Global Extratropical Surge and Tide Operational Model  
through July 7, 2020

The Coast Survey Development Laboratory (CSDL) is proposing to  
upgrade the Extratropical Surge and Tide Operational Forecast  
System (ESTOFS) in the fall of 2020. CSDL is seeking comments  
on this proposed change through July 7, 2020. The full list of  
potential changes for ESTOFS is described here:

[https://polar.ncep.noaa.gov/estofs/docs/GESTOFS\\_upgrade.pdf](https://polar.ncep.noaa.gov/estofs/docs/GESTOFS_upgrade.pdf)

It is expected that the new upgrade will replace and retire all  
three current operational ESTOFS models: ESTOFS-Atlantic,  
ESTOFS-Pacific, and ESTOFS-Micronesia. The new Global ESTOFS  
(G-ESTOFS) will provide global coverage that will extend model  
coverage of the existing ESTOFS models.

Expected benefits from this upgrade include:

- Improved spatial resolution in U.S. waters.
- Unification of ESTOFS modeling infrastructure.
- Reduction of bias and errors due to removal of the open ocean boundary.
- Inclusion of internal tides.
- Self-attraction and loading.
- Sea-ice effect on wind drag coefficient.
- Potential implementation of dynamic water level bias correction.

For verification statistics for G-ESTOFS see:

<https://polar.ncep.noaa.gov/estofs/glo.htm>

CSDL will evaluate all comments to determine whether to proceed with this upgrade.

Send comments on this proposal for G-ESTOFS by July 7, 2020 to:

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