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## Precision Navigation Prototype Release

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**NOAA Navigation Services** <julia.powell@noaa.gov>

Reply-To: julia.powell@noaa.gov

To: ocs.nsd.navmgrs@noaa.gov

Wed, May 27, 2020 at 3:30 PM



Dear Stakeholders

You are receiving this letter because you have indicated interest in NOAA's Precision Navigation Dissemination program.

NOAA is planning on an initial release of its preliminary service for Precision Navigation for surface currents and high resolution bathymetry by July 2020. Our prototype Precision Navigation Dissemination will allow systems to ingest, process, and disseminate selected NOAA marine navigation data. This system is built on the foundation of the International Hydrographic Organizations S-100 Universal Hydrographic Data Model. S-100 provides a framework of components that enables the building of standardized product specifications for the modelling of hydrographic data, thus providing true interoperability between different data standards and systems.

The initial data will be available in the dissemination system include forecast guidance of surface water currents extracted from oceanographic forecast modeling systems (OFS) in the IHO's S-111 format and high resolution bathymetry in the IHO's S-102 format. The backbone of this dissemination system is the ability to provide for machine-to-machine dissemination that allows the mariners' existing navigation software to automatically discover if NOAA has made new data available and ingest it directly into the system. NOAA's integrated marine navigation services through this site will help ship operators optimize their routes and better plan the timing of the ship's transit to save fuel, reduce lightering and reduce port wait times based on environmental conditions.

In addition to the S-100 framework the IHO has developed a series of product specifications that conform to S-100. As part of the precision navigation dissemination system, NOAA is building out products and services that conform to these standards. The following table lists the S-100 based products that will be part of the new platform:

Product Specification	Name	Edition	Status
S-101	Electronic Navigational Charts	1.0.0	Planned
S-102	High Resolution Bathymetry for Navigation	2.0.0	In Process
S-104	Water Levels	TBD	Planned
S-111	Surface Currents	1.0.0	In Process

Note: These are all baselined against S-100 Edition 4.0.0

If you are interested in participating as an early adopter for our Precision Navigation Services please email your interest and information to: [Christine.Burns@noaa.gov](mailto:Christine.Burns@noaa.gov) and [Julia.Powell@noaa.gov](mailto:Julia.Powell@noaa.gov).

In addition, because we understand that getting the data is one piece of the equation, we have released test data for a subset of our surface currents and high resolution bathymetry products so that you may start your own testing and development for implementation prior to the initial launch.

These can be found here: [ftp://ocsftp.ncd.noaa.gov/Precision\\_Navigation\\_Test\\_Data/](ftp://ocsftp.ncd.noaa.gov/Precision_Navigation_Test_Data/).

Best Regards,

Julia Powell  
Precision Navigation Program Manager



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