Paper for Consideration by NIPWG7

S-12X at the NLHO

Submitted by:	The Netherlands HO
Executive Summary:	Proof of Concept to produce S-12x datasets with current production system
Related Documents:	NIPWG 6/22, S-122 PS and S-123 PS
Related Projects:	S-100 en S-127

Introduction / Background
Now that the first NIPWG Product Specifications are official released i n 2019. The Netherlands has indicated, during NIPWG6, that they will be producing S-122 and S-123 data sets in the future.
We are currently working on a Proof-of-Concept on whether it is possible to produce S-12x data sets with our current production system (HPD 3.2.13).

Analysis/Discussion
Because our current production system does not support S-100 data sets. And we do not expect this to happen in the near future, we started to look for an alternative production method.
The charts in our nautical publications also come from the HPD. The GML-file that is produced with the HPD Product Editor forms the base of the Adobe Illustrator file. We have used this procedure as a starting point.

Not all the MPA-data that can be used in S-122 is depicted in our charts or described in "The Netherlands Coast Pilot HP 1". For the missing S-122-data we used the website https://geodata.nationaalgeoregister.nl
Most data for S-123 is already in the HP 1 or on the charts. Missing information is available at the Netherlands Coastguard or the KNMI (Royal Netherlands Meteorological Institute).

To store the data in the HPD SE, more features and attributes are needed than there are available S-57. We use the option to add national features and attributes to the HPD. We store complex attributes as features and combine them with an aggregation. InformationTypes are provisionally stored as features and with aggregations linked to other features in the HPD SE.

What needs to be done:
- Add the defined national features and attributes to HPD SE;
- The prepared data must be loaded into the HPD SE on a separate "usage band";
- The GML-product must be defined in the HPD Product Editor;
- Expand the Proof-of-Concept to include S-127.

Justification and Impacts
When the Proof-of-Concept works, we have 1 database where we can store all geo-information. This should lead to a better consistency between the different data sets.

The expectation is that a first data set will be ready soon.

Action Required of NIPWG
The NIPWG is invited to:
  a. note this paper,
  b. provide input if appropriate.