BAG NOAA-					
Profile Name	BAG NOAA-OCS-2022 10 Profile Description	BlueTopo Name	BlueTopo Description	S-102 V2 2 Name	S-102 V/2 2 Description
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					https://registry.iho.int/productspec/view.do?idx=199&product_ID=S-
	https://bag.readthedocs.io/en/stable/fsd/FSD-Appendices.html		https://www.nauticalcharts.noaa.gov/data/bluetopo_specs.html	See Table 14	=
			A binary indication that a systematic method of exploring the seafloor was undertaken to detect significant features. If false, feature_size and feature_least_depth attributes are both not applicable.		
			In the context of bathymetry, a feature is any object, whether manmade or not, projecting above the seafloor, which may be		A statement expressing if significant features have or have not been
significant_features	See S-101 significant features detected	significant_features	considered a danger to surface navigation.	featuresDetected.significantFeaturesDetected	detected in the course of a survey.
feature_least_depth	See S-101 least depth of detected feature measured.	feature_least_depth	A binary expression of the ability of the survey to detect the least depth of features.	featuresDetected.leastDepthOfDetectedFeaturesMeasured	expression stating if the least depth of detected features in an area was measured.
			The size of the smallest feature that the survey was capable		
feature_size	See S-101 feature size	feature_size	of detecting with a high probability - unit is cubic meters.	5featuresDetected.sizeOfFeaturesDetected	The size of detected bathymetric features in an area. This description is in section 7.1.a.1 rather than in table 14: The
feature_size_var	feature_size_var is meant to augment feature_size which corresponds to S-101 size of features detected. As noted in S-101, size of features detected is intended to be described as the smallest size in cubic metres the survey was capable of detecting. Depending on the type of survey this definition might force different depth ranges to have different values. For example, a survey vessel that works at a fixed height off the seafloor could maintain a fixed feature detection size capability over a wide range of depths. A surface vessel working over those same range of depths may have a feature detection capability that varies with depth causing the detection capability to be ambiguous and potentially misrepresented. For this reason feature_size_var is the percentage of depth that a feature_size_var are present the greater of the two should be considered valid. The expectation is that feature_size_var will be set to zero if the feature size does not scale with depth. As with feature_size_ feature_size_var should be ignored if significant features is False.	N/A	NA	featureSizeVar	attribute, featureSizeVar is meant to augment featureSize which corresponds to S-101 size of features detected. As noted in S-101, size of features detected is intended to be described as the smallest size in cubic metres the survey was capable of detecting. Depending on the type of survey this definition might force different depth ranges to have different values. For example, a survey vessel that works at a fixed height off the seafloor, such as an autonomous underwater survey vessel, could maintain a fixed feature detection size capability over a wide range of depths. A surface vessel working over those same range of depths may have a feature detection capability that varies with depth causing the detection capability to be ambiguous and potentially misrepresented. For this reason, featureSizeVar is the percentage of depth that a feature of such size could be detected. When both featureSize and featureSizeVar are present, the greater of the two should be considered valid. The expectation is that featureSizeVar will be set to zero if the feature size does not scale with depth. As with featureSize, leadureSizeVar should be ignored if significantFeatures is False.
realure_size_var	significant_readures is Paise.	N/A	A binary statement expressing if seafloor coverage has been	leatureSizevai	is raise.
			achieved in the area covered by hydrographic surveys. If false, the bathy_coverage attribute must also be false. If true, bathy_coverage may either be true or false. For information,		Expression stating if full seafloor coverage has been achieved in the
coverage	See S-101 full seafloor coverage achieved	coverage	see the FAQ page.	fullSeafloorCoverageAchieved	area by hydrographic surveys.
	When side scan is used to detect features in flat seafloor areas, surveys have coverage that does not contain direct depth measurements. In these cases the nodes with survey coverage but without bathymetry would be set to False. A condition with coverage = True and bathy_coverage = False is a useful indicator for how to work with these nodes within our workflow. If coverage is False,		A binary expression stating if full bathymetric coverage has been achieved in the area covered by hydrographic surveys. If true, this indicates the value is sourced from a measured depth, not an interpolated depth. If false, no depth	f	
 bathy_coverage	bathy_coverage must also be False.	bathy_coverage	measurement was achieved.	bathyCoverage	Flag for nodes populated by interpolation.
			The best estimate of the fixed accuracy of a position.		component for positions, depths, heights, vertical distances, and
horizontal_uncert_fixed	d See S-101 horizontal position uncertainty fixed	horizontal_uncert_fixed	Reported at a 95% Confidence Interval.	zoneOfConfidence.horizontalPositionUncertainty.uncertaintyFixed	vertical clearances.
horizontal uncort var	See S-101 herizontal position uncertainty variable factor	horizontal uncert var	The best estimate of the variable accuracy of a position as a multiplier of dopth. Reported at a 95% Confidence latence	zonoOfConfidence barizontalPositionUncortainty uncortainty/ariableFactor	The factor to be applied to the variable component of an uncertainty equation so as to provide the best estimate of the variable horizontal or vertical accuracy component for positions, depths, heights, vertical distances, and vertical depraces.
survey_date_start	See S-101 Survey date start	survey_date_start	The start date of the survey.	surveyDateRange.dateStart	The start date of the period of the hydrographic survey.
 survey_date_end	See S-101 Survey date end	survey_date_end	The end date of the survey.	surveyDateRange.dateEnd	The end date of the period of the hydrographic survey.
source_institution	e.g. "NUAA Office of Coast Survey" e.g. "H99999"	source_institution	The institution responsible for the survey.	surveyAuthority	The authority which was responsible for the survey.
source_survey_index	A value of 0 indicates the index is uninitialized or unused.	value		id	Metadata record identifier
license_name	e.g. "CC0 1.0"	license_name	The license information regarding restrictions on data redistribution, usage, and source attribution.	N/A	N/A
license url	A URL or DOI (ideally in URL form) referencing the license definition, e.g. "https://creativecommons.org/publicdomain/zero/1.0/"	license url	The URL or DOI where the license is available.	N/A	N/A
N/A	N/A	count	The number of cells in the raster dataset with the cell value in the VALUE column	N/A	N/A
NIA	N/A		Provides an overall indicative level of assessment of		The categorization of the assessment level of bathymetric data for
IW/A	N/A	data_assessment	The best estimate of the accuracy of depths, heights, vertical distances and vertical clearances. Reported at a 95%.	UalaAssessment	ता। तास्त.
 N/A	N/A	vertical_uncert_fixed	Confidence Interval.	N/A	N/A
N/A	N/A	undial unit i	The best estimate of the variable accuracy of depths, heights, vertical distances and vertical clearances. Reported at a 95% Confidence latencel	N/A	N/A
IN/A	IWA	vertical_uncert_var	Confidence interval.	IVA	An estimate of the magnitude of the difference between true and
N/A	N/A	N/A		bathymetricUncertaintyType	estimated bathymetric depth, after all appropriate corrections are made.