The Feature Catalogue:

A component of an S-100 Product Spec.



Feature Categories for Currents

1. Geometric Feature a point, line, or surface



Location of a tidal current prediction or real-time observation

^o 2. Coverage Feature ^o an image, point set, or grid





Ungeorectified, ungeoreferenced

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Feature Attributes

Not Attributes (covered elsewhere in spec): Coordinate System: horizontal: X, Y (WGS 84) vertical: Z (datum) Time Reference System: UTC

Geographic (i.e., Point) Feature Attributes: Speed, Dir., Time, Uncertainty, Depth, A, B,

Coverage (i.e., Grid) Feature Attributes: Gridded speed values Gridded direction values Gridded uncertainty values

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List of Potential Surface Current Attributes

NO.	ATTRIBUTE			
1	Speed			
2	Direction			
3	Uncertainty (in speed, in direction)			
4	Uncertainty type (StD, RMSE, Pct.)			
5	Valid time			
6	Source time (or age)			
7	Depth of current (relative to vertical datum)			
8	Depth of layer			
9	Composition (tidal, total)			
10	Character (hist. observation, RT obs, tide prediction, forecast)			
11	Source (country, agency)			
12	Lagrangian vs. Eulerian			
13	Water level/tidal elevation			
14	Uncertainty in position			
15	Maximum speed			
16	Language (of explanatory text)			
17	Instrument type (for obs)			
18	Numerical model type			

Types of Attributes

Attribute	Attribute Level	Data Type	Example
Speed	Att	C: Complex	
Speed Value	SubAtt	RE: Real Value	1.237
Speed Units	SubAtt	EN: Encoded Value	2 (1=m/s, 2=kts, etc)
Valid Time	SubAtt	DT: UTC Date+Time YYYMMDD+HHMMSS	20140528 +142605
Source	SubAtt	TE: Text	CA_SLGO

Other: (a) Mandatory or optional value, (b) Number of values

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Next Steps:

- Discuss List of Attributes for a Point Feature
- Modify as Necessary
- Go on Record to Agree or Disagree (Note: list can be modified later)
- If Agree, Submit List to TSMAD
- After SCWG2, Chair to Develop Final Tables for Points and Coverages