

11th TSMAD MEETING
10 – 12 November 2004, IHB, Monaco

**PROPOSED CHANGES TO S-57 HYDROGRAPHIC DATA
 DICTIONARY**

Submitted by Australia September 2004

PROPOSED NEW FEATURE OBJECT ATTRIBUTES

Attribute: **Category of marine area or maritime boundary/limit/zone**

Acronym: **CATMAR**

Code:

Attribute type: L

Expected input:

ID	Meaning	INT 1	M-4
1	:Antarctic Specially Protected Area (ASPA) combining SPAs and SSSIs		
2	: Antarctic Convergence		
3	:Archipelagic Sea Lane exclusion zones (10% rule)		
4	:Areas of significant conservation value (ASCV) - (used in NZ)		
5	:Conservation Park		
6	:Designated Shipping Area (DSA)		
7	:Highly Protected Zone		
8	:IMO Area to be avoided (ATBA)		;B-437.7
9	: IMO No Anchoring Area		;B-437.11
10	: IMO (or national?) Particularly Sensitive Areas (PSA)	;	;
11	: IMO Particularly Sensitive Sea Area (PSSA)	;	;B-437.6
12	: IMO Special Area	;	;B-437.5
13	: International Maritime Boundary		
14	: Marine and Coastal Park		
15	: Marine and Estuarine Protected Area (MEPA)	;	;
16	: Marine Environmental High Risk Area (MEHRA) UK		
17	: Marine Environmentally Sensitive Area (MESA) European Union		
18	: Marine National Nature Reserve		
19	: Marine National Park		
20	: Marine Park		
21	: Marine Protected Area (MPA)		
22	: Marine Reserve		
23	: Marine Sanctuary		
24	: Maritime area in general (see RESTRN for requirement?)		
25	: MARPOL 73/78 Special Area	;	;B-437.5
26	: National Nature Reserve		

27	:	National Park (Marine component)	:	
28	:	Nature Reserve/Marine Sanctuary	:	;B-437.3
29	:	Protected area (PA) in Antarctica	:	; IN 1.2, IN 22 ;B-439.1?,
S-59				
30	:	Security Zone		
31	:	Ship Reporting System (SRS)? Does this belong here of Cat of ADMARE		
32	:	Specially Protected Area (SPA) in Antarctica		
32	:	Species/Habitat Management Zone		
33	:	Wilderness Reserve (such as Heard and McDonald Islands)		

Could make most of these CATREA, except for boundaries and limits which would be separate new attribute CATMBY Category of maritime Boundary)

Comments: do we require another attribute CATMBY, rather than mix CATMAR with areas and boundaries. It would be clearer.

Another issue: there needs to be a facility for the ECDIS to highlight at least the boundary of the area selected so that the mariner can clearly see the extents of the area he is referring too. Currently there is no requirement for this and IEC 61174 does not test for it.

Definitions:

Highly Protected Zone: part of a marine park in which fishing, and petroleum and mineral exploration will be prohibited. eg Macquarie Island Marine Park.

IMO Particularly Sensitive Areas: an area which needs special protection through action by IMO because of its significance for recognized ecological or socio-economic or scientific reasons and which may be vulnerable to damage by maritime activities. (from IMO Resolution A.927(22)).

IMO Special Area: a sea area where for recognized technical reasons in relation to its oceanographical and ecological conditions and to the particular character of its traffic the adoption of special mandatory methods for the preservation of sea pollution by all is required. (from IMO).

International Maritime Boundary: from Monahan's paper in Hydro Int Nov 2002, could be UNCLOS term?

Marine protected area: (MPA) any area of inter-tidal or sub-tidal terrain, together with its overlying water and associated flora, fauna, historical and cultural features, which has been reserved by law or other effective means to protect part or all of the enclosed environment. (from **International Union for Conservation of Nature and Natural Resources** [IUCN])

Species/Habitat Management Zone: part of a marine park where habitat is protected and scientific research will be the primary activity associated with ecologically sustainable management. eg Macquarie Island Marine park.

Remarks:

See CSC CL 1/2002 for some definitions and charted notes, etc
Distinction: CATCH; CATREA; RESTRN;