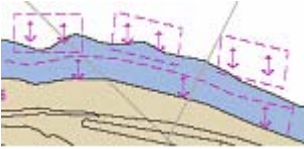## M.1 Anchorage Areas and Berths

M.1.3 Berth without Transshipment / Fleeting Areas (M)

A designated named or numbered place at the bank of the river or in a harbour basin for the mooring of vessels without transshipment of cargo.

Graphics	Encoding Instructions	Object Encoding
Real World (Fleeting Area) *Chart Symbol (Fleeting Area)* *IENC Symbolization* 	A) For anchorage area see M.1.1 For anchorage berth see M.1.2 B) US: - First Class Landing: An area providing tie-ups and at least 9 feet of water depth during low water level - Second Class Landing: An area providing tie-ups and at least 9 feet of water depth during normal pool level Mandatory attributes: 'catbrt' = 7 (first class landing) or 8 (second class landing) OBJNAM = "First Class Landing" or "Second Class Landing" in both 'achare' and SEAARE. C) US: Fleeting Areas: Area in waterway designated for temporary barge mooring. Mandatory attribute: 'catbrt' = 6 (fleeting area) D) Where a berth may only be used for a limited period the duration should be indicated in INFORM. If the berth has special operating hours, the berths object can be combined with a time schedule (general) 'tisdge' object (T.1.1) E) To encode a berth, objects such as 'berths', MORFAC, 'resare' and navigational aids like 'notmrk' may be associated using a collection object C_ASSO. F) The linear extent of berths object is defined by markers or notice marks (CEVNI signs E.5 – E.5.15, E.6, E.7 or E.7.1) on the bank. G) Within port areas it is allowed to encode berthes as line objects. H) Land facilities should be represented with buildings (BUISGL) and storage tank (SILTNK) or harbor facility ('hrbfac') feature objects. I) The berth encodes the named place	**Object Encoding** **Object Class =** berths(P,L,A) (C) catbrt = [3 (overnight accomodation), 4 (push tow berth, CEVNI signs E.5.4, E.5.5, E.5.6, E.5.7), 5 (berth for other vessels than push tows, CEVNI signs E.5.8, E.5.9, E.5.10, E.5.11), 6 (fleeting area), 7 (first class landing), 8 (second class landing)] (O) clsdng = [1 (one blue light / cone), 2 (two blue lights / cones), 3 (three blue lights / cones), 4 (no blue light / cone), 5 (one red light / red cone top down)] (O) TXTDSC = (Refer to letter L) (O) DRVAL1 = [The minimum (shoalest) value; unit defined by the M_UNIT meta object class e.g., metres, if this attribute is used, QUASOU, SOUACC and verdat should also be provided] (O) OBJNAM = [name or number designation of the berth] (O) NOBJNM = (Refer to Section B, General Guidance) (O) STATUS = [3 (recommended), 8 (private), 12 (illuminated), 14 (public), 16 (watched), 17 (un-watched)] (C) unlocd = (Refer to letter O) (O) INFORM = [additional information, e.g., limited duration of use, restrictions of the number, the kind or the size of vessels] (O) NINFOM = (Refer to Section B, General Guidance) (M) SCAMIN = [EU: 22000 for areas, 12000 for points; US: 45000] (C) SORDAT = [YYYYMMDD] (C) SORIND = (Refer to Section B, General Guidance) **Object Encoding** **Object Class =** SLCONS(L,A) (M) CATSLC = [4 (pier (jetty)), 5 (promenade pier), 6 (wharf (quay)), 15 (solid face wharf), 16 (open face wharf)]

	at a wharf. The wharf itself is encoded as a shoreline construction	(O) NATCON = [1 (masonry), 2 (concreted), 3 (loose boulders), 4 (hard surfaced), 5 (unsurfaced), 6 (wooden), 7 (metal), 8 (glass reinforced plastic (GRP))]
	J) For SLCON Multiple NATCON values can be used, if applicable.	
	K) Use CATSLC as follows:	(M) WATLEV = [1 (partly submerged at high water), 2 (always dry)]
	•4, Pier: facility is primarily a structure generally extending perpendicular from shoreline into water.	(M) SCAMIN = [45000 for line objects and 22000 for area objects]
		(C) SORDAT = [YYYYMMDD]
	•6, Wharf: facility is primarily a structure parallel to shoreline; use if details of 15 or 16 no known.	(C) SORIND = (Refer to Section B, General Guidance)
	•15, Solid face wharf: Facility consisting of a solid wall such that water can not circulate underneath.	
	•16, Open face wharf: Facility supported on piles or other structures that allow free circulation of water under the wharf.	
	L) If a structured external XML-file with more detailed communication information is available, the reference to the file has to be entered in the TXTDSC attribute.	
	M) If the width of achare is not defined by notice marks, consider using 110'/33.55m (approximately three barge widths).	
	N) The class of dangerous goods in accordance with ADN and CEVNI: 1 (one blue light / cone, CEVNI signs E.5.5, E.5.9, E.5.13), 2 (two blue lights / cones, CEVNI signs E.5.6, E.5.10, E.5.14), 3 (three blue lights / cones, CEVNI signs E.5.7, E.5.11, E.5.15), 4 (no blue lights / cones, CEVNI signs E.5 4, E.5.8, E.5.12). Dangerous goods in accordance with inland waterway regulations of the Russian Federation: 5 (one red light / cone top down).	
	O) EU: 'unlocd' mandatory	

MORFAC (CATMOR=1)

berths

resare (restrn=8)

achbrt

achare

resare (restrn=8)

← downstream

FAIRWY

upstream→