### O.3.1 Notice Marks (M)

Waterway signs in accordance with the European Code for Inland Waterways of UN/ECE (http://www.unece.org/trans/doc/finaldocs/sc3/TRANS-SC3-115r2e.pdf ).
Used also in Brazil in accordance with Normas da Autoridade Marítima para Auxílios à Navegação (NORMAM-17) - Diretoria de Hidrografia e Navegação (DHN) and for Waterway signs in the Russian Federation in accordance with Russian Inland Waterway Regulations GOST 26600-98.
For notice marks on bridges see O.3.2

| Graphics | Encoding Instructions | Object Encoding |
|---|---|---|
| *Real World (Europe)*<br><br><br><br>*IENC Symbolization (CEVNI)*<br><br><br><br>*Real World (Brazil - two sides system)*<br><br> | A) For detailed list of all available input ID's for category of notice mark (catnmk) see annexes "AA - CEVNI", "AB - Russian Inland Waterways", "AC - Brazilian Two Sides System", "AD - Brazilian Side Independent System" and "AE - Brazilian Paraguay-Parana Waterway".<br><br>In Annex AA, all order numbers are referenced to the European Code for Inland Waterways – CEVNI, revision 2, edited by the Economic Commission for Europe of the United Nations.<br><br>B) Although the list is originally based on CEVNI, the codes can be used for other notice marks with the same meaning (e.g., on the Paraguay-Parana Waterway in Brazil).<br><br>C) For CEVNI: The function of the notice mark (fnctnm) has to be encoded for display purposes as follows: 1 (prohibition mark, CEVNI signs A), 2 (regulation mark, CEVNI signs B), 3 (restriction mark, CEVNI signs C), 4 (recommendation mark, CEVNI signs D), 5 (information mark, CEVNI signs E).<br><br>D) For CEVNI: If the notice mark is positioned rectangular to the bank, it can be seen only by vessels heading upstream (dirimp = 1) or by vessels heading downstream (dirimp = 2).<br><br>If the notice mark is positioned parallel to the bank, it can be seen by vessels heading upstream as well as vessels heading downstream. In this case, the direction of impact is defined by triangular additional marks. | **Object Encoding**<br><br>**Object Class =** notmrk(P)<br><br>(M) catnmk = Refer to Annexes AA, AB, AC, AD and AE<br><br>(M) fnctnm = [1 (prohibition mark), 2 (regulation mark), 3 (restriction mark), 4 (recommendation mark), 5 (information mark)]<br><br>(O) dirimp = [1 (upstream), 2 (downstream), 3 (to the left bank), 4 (to the right bank), 5 (to harbor)]<br><br>(O) disipd = (distance of impact, downstream: unit defined in the M_UNIT meta object class, e.g. metre (m), resolution: 1 m)<br><br>(O) disipu = (distance of impact, upstream: unit defined in the M_UNIT meta object class, e.g. metre (m), resolution: 1 m)<br><br>(O) disbk1 = Minimum distance of the impact from the notice mark rectangular to the bank: unit defined in the M_UNIT meta object class, e.g. metre (m), resolution: 1 m<br><br>(O) disbk2 = Maximum distance of the impact from the notice mark rectangular to the bank: unit defined in the M_UNIT meta object class, e.g. metre (m), resolution: 1 m<br><br>(O) addmrk = [1 (top (board)), 2 (bottom (board)), 3 (right (triangle to the right)), 4 (left (triangle to the left)), 5 (bottom (triangle to the bottom))]<br><br>(O) bnkwtw = [1 (left), 2 (right)]<br><br>(C) ORIENT = [xxx or (UNKNOWN)] (degree (°)), e.g., 110<br><br>(C) marsys = [1 (IALA A), 2 (IALA B), 9 (no system), 10 (other system), 11 (CEVNI), 12 (Russian inland waterway regulations), 13 (Brazilian national inland waterway regulations - two sides), 14 (Brazilian national inland waterway regulations - side independent), 15 (Paraguay-Parana waterway - Brazilian complementary aids)]<br><br>(O) STATUS = [8 (private), 12 (illuminated)] |

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| *Real World* | E) For CEVNI:  The distance of impact (downstream or upstream, 'disipd' or 'disipu') can be defined by the distance between two notice marks, by a number, which is shown on the top board or by a number, which is shown on an triangular additional mark. | (O) INFORM = (text of additional marks in English) |
| | | (O) NINFOM = (Refer to Section B, General Guidance) |
| *Chart Symbol* | F) For CEVNI:  The minimum distance of impact from the notice mark rectangular to the bank (disbk1) can be defined by: | (O) CONDTN = [1 (under construction), 2 (ruined), 3 (under reclamation), 5 (planned construction)] |
| | 1. the number on a sign C.5 (distance of the waterway from the bank), | (M) SCAMIN = [EU: 22000; US: 60000; BR: 50000] |
| | | (C) SORDAT = [YYYYMMDD] |
| | 2. the first number on a sign E.5.2 (berthing permitted between two distances). | (C) SORIND = (Refer to Section B, General Guidance) |
| *IENC Symbolization* | G) For CEVNI:  The maximum distance of impact from the notice mark rectangular to the bank (disbk2) can be defined by: | |
| | 3. the number on a sign A.5.1 (berthing prohibited within the breadth indicated), | |
| | 4. the number on a sign E.5.1 (berthing permitted within the distance indicated), | |
| | 5. the second number on a sign E.5.2 (berthing permitted between two distances). | |
| *Real World (Brazil - one side system)* | H) For CEVNI:  Rectangular boards on top of the main sign ('addmrk' = 1) are showing the distance at which the regulation applies or the special feature indicated by the notice mark is to be found. | |
| | Rectangular boards at the bottom of the main sign ('addmrk' = 2) are showing explanations or additional information. | |
| | Triangular pointers at the side of the main sign ('addmrk' = 3 or 4) are showing the direction of the section to which the notice mark applies. | |
| *Real World (Paraguay-Parana (Brazilian))* | Triangular pointers at the bottom ('addmrk' = 5) are showing the distance from the shore, within which the regulation applies. | |
| | The attribute 'addmrk' is only defining the position and shape of the additional mark. The content is given by other attributes ('disipd', 'disipu', 'disbk1', 'disbk2', INFORM, NINFOM) | |
| | I) For CEVNI:  If the system of | |

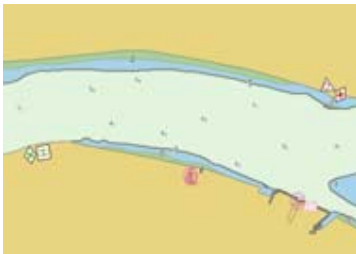| Real World | |
|---|---|
|  | navigational marks of a special sign is different from the system mentioned in 'm_nsys', or there is no 'm_nsys' object class in the cell, the attribute 'marsys' must be used. |

*Real World*

*Chart Symbol*

*IENC Symbolization*

navigational marks of a special sign is different from the system mentioned in 'm_nsys', or there is no 'm_nsys' object class in the cell, the attribute 'marsys' must be used.

J) For CEVNI: If a notice mark is illuminated, this should be indicated by the attribute STATUS = 12).

K) For CEVNI: Explanations or additional information shown on additional marks and

1. the number shown on the CEVNI signs B.6 (maximum speed limit) amended by the unit (e.g., "10 km/h"),

2. the frequency band and the number shown on the CEVNI sign B.11 (mandatory radiophone channel) and E.23 (nautical radio information channel) (e.g., "VHF 11"),

3. the number shown on the CEVNI signs C.1 (restricted fairway depth), C.2 (restricted vertical clearance), C.3 (restricted width of the fairway or passage), and E.5.3 (maximum number of vessels berthing abreast) have to be indicated in the INFORM attribute.

If the sign E.5.3 is used as an additional mark, the text "maximum x vessels berthing abreast" should be used. The maximum number of vessels berthing abreast has to be indicated in arabic numbers.

L) For CEVNI: The standard SCAMIN value for notice marks is 25000. Different values can be used to improve the display with regard to the safety of navigation.

M) For CEVNI: For more detailed information regarding Notice Marks and which makrs should be accompanied by area features, see Section AA, Notice Marks for more detailed information.

N) For CEVNI: To encode an area, where notice marks apply, objects such as 'resare', 'achare', 'trnbsn', CTNARE, 'comare', 'achbrt' or 'berths' must be associated using a collection object C_ASSO.

O) For CEVNI: Signs with textual description, which have the same meaning as a CEVNI sign (for example a white board with the text "mooring prohibited") can be encoded as notice marks with

| | | INFORM = "textual description only". |
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| | P) | For CEVNI: Signs, which are installed by private companies, should be encoded with STATUS = 8 (private). |
| | Q) | For CEVNI: If the chart producer wants to ensure that a notice mark is displayed correctly, if detailed symbolization is used instead of the generalized symbols, ORIENT has to be encoded. |
| | R) | BR: The function of the notice mark (fnctnm) has to be encoded. |
| | S) | BR: The attribute bnkwtw must be encoded for display purposes when adopting marsys = 13 (Brazilian national inland waterway regulations - two sides) or marsys = 15 (Paraguay-Parana waterway - Brazilian complementary aids). It indicates the board colours. |
| | T) | BR: The attribute orientation (ORIENT) must be used to rotate the symbol according the orientation of the board for all Brazilian notice marks. |
| | U) | BR: The direction of impact attribute (dirimp) must be used to define if the notice mark is addressed to vessels heading upstream or downstream. |
| | V) | This feature could be aggregated to for example a lock, bridge, communication area, anchorage area, anchor berth, berth, turning basin by a C_AGGR object. |

| | ◄ Triangle left side | Triangle right side ► |
| --- | --- | --- |
| Left bank (downstream) | dirimp = 1 | dirimp = 2 |
| Right bank (downstream) | dirimp = 2 | dirimp = 1 |

Diagram for Brazilian national inland waterway regulations - two sides
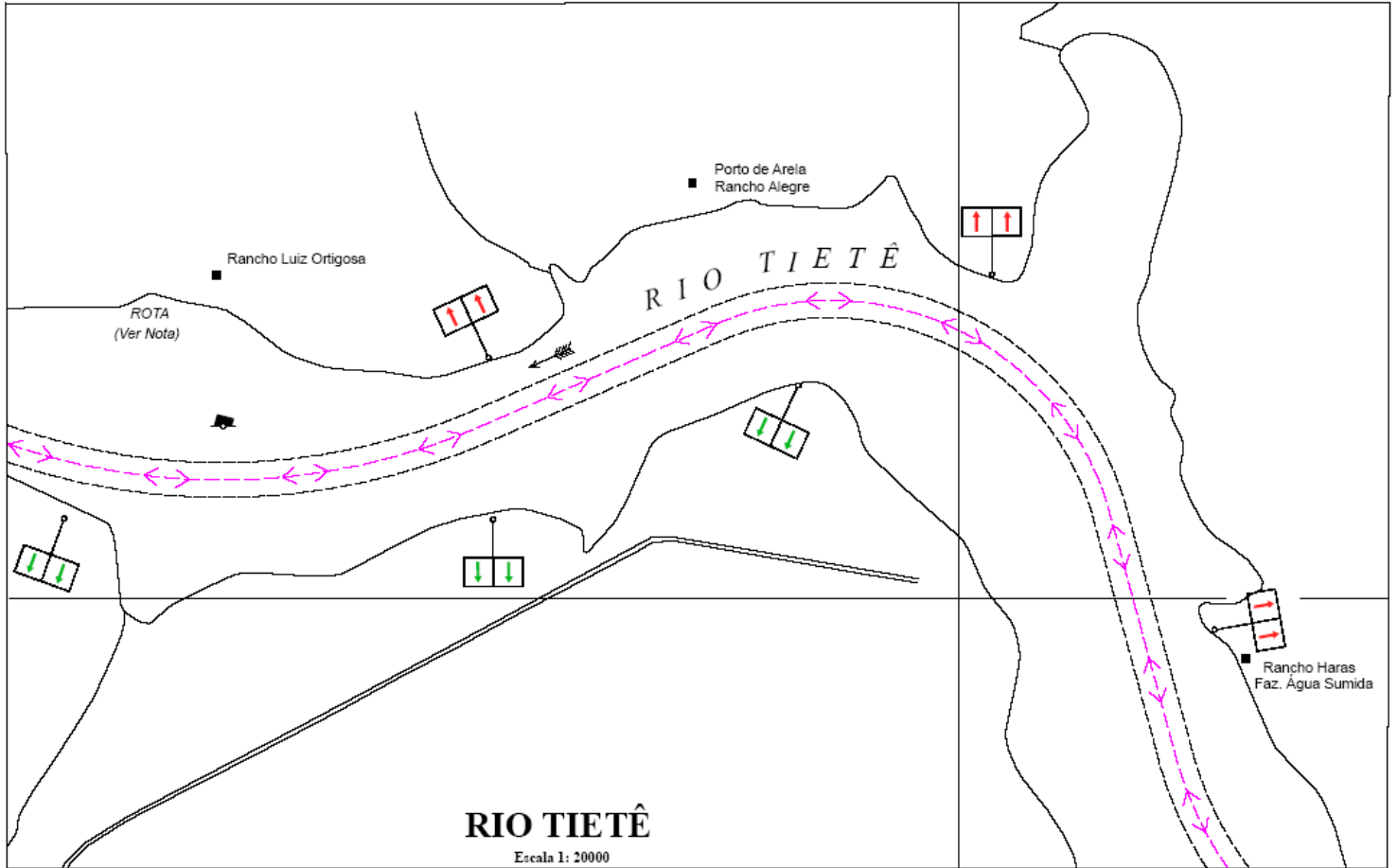


RIO TIETÊ

Escala 1: 20000

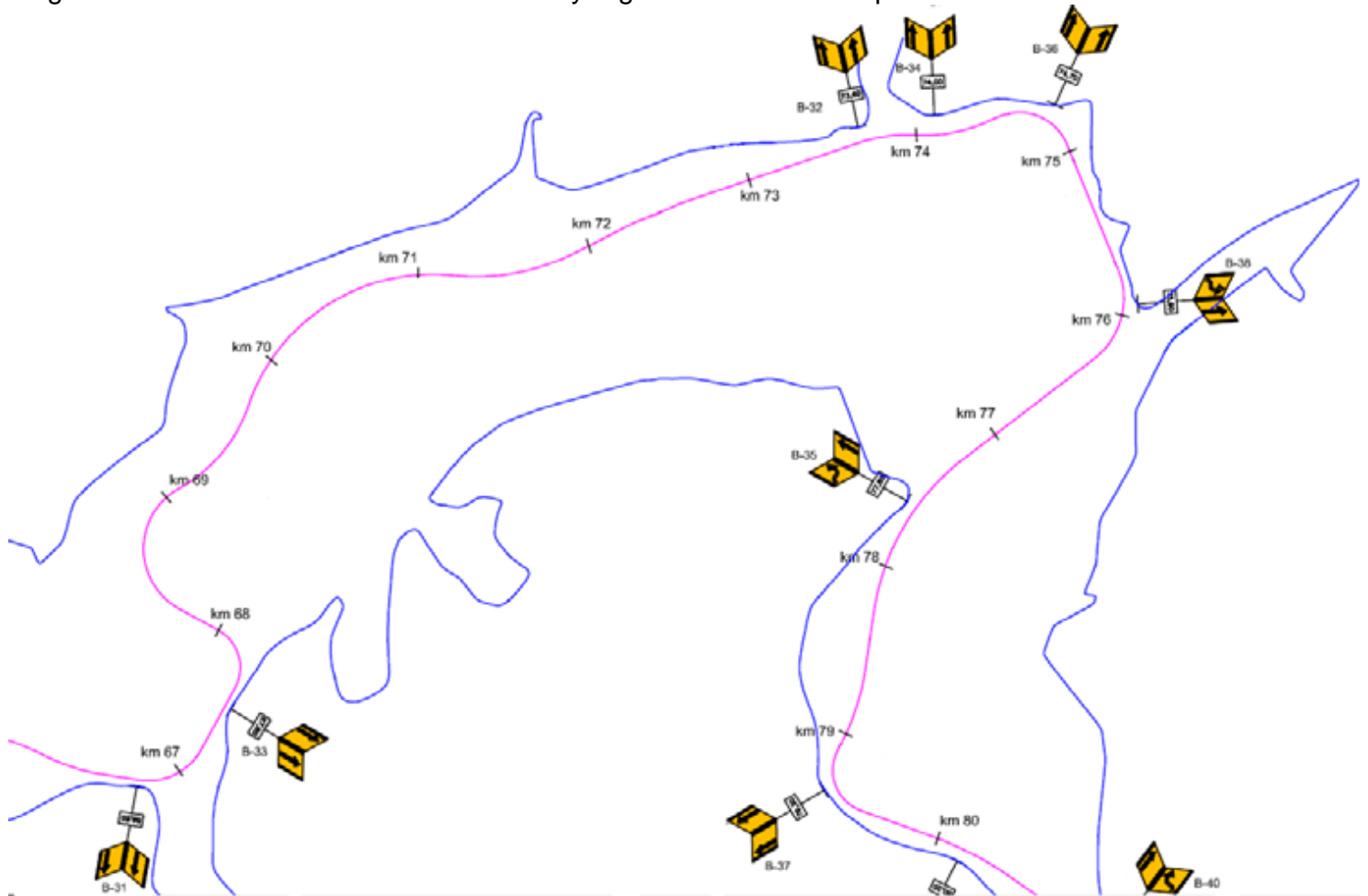Diagram for Brazilian national inland waterway regulations – side independent



Diagram for Paraguay-Parana waterway - Brazilian complementary aids



Fte. Balduino Inferior

Fte. Balduino
Lp.V.4s 9m 7M

ILHA DO LIMOEIRO

R.B. 6M