

METRIC

MIL-PRF-89039

INT. AMENDMENT 1

28 September 1999

PERFORMANCE SPECIFICATION**VECTOR SMART MAP (VMAP) Level 0**

This interim amendment is approved for use within the National Imagery and Mapping Agency (NIMA), with MIL-PRF-89039, dated 9 February 1995.

The attached insertable replacement pages listed below are replacements for the stipulated pages. When the new pages have been entered in the document, insert the amendment as the cover sheet to the specification.

<u>Replacement page</u>	<u>Page replaced</u>
3	Reprinted without change
4	4
75	75
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AMSC N/A

AREA MCGT

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distribution is unlimited.

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<u>Replacement page</u>	<u>Page replaced</u>
95	95
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105a	New page
105b	New page
106	Reprinted without change
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126	Reprinted without change
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134	Reprinted without change
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214	Reprinted without change

PAGE 1

Title: Delete "VECTOR SMART MAP (VMap) Level 0" and substitute "VECTOR MAP (VMap) Level 0"

1.1: Delete "U.S. Defense Mapping Agency (DMA) VECTOR SMART MAP (VMap) Level 0" and substitute "National Imagery and Mapping Agency's (NIMA) VECTOR MAP (VMap) Level 0"

Beneficial comments box: Change address for sending comments to "Director, National Imagery and Mapping Agency, ATTN: Customer Support/COD, Mail Stop P-37, 4600 Sangamore Road, Bethesda, MD 20816-5003."

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PAGE 2

2.1.1: Delete "Vector Product Format, 1993" and substitute "Vector Product Format, 28 June 1996"

Delete: "MIL-STD-600010 DMA Stock Number Bar Coding" and substitute "MIL-STD-2414 Bar Coding for Mapping, Charting, and Geodesy Products"

2.1.2: Delete "DMA SPECIFICATIONS"

Add: "(Copies of the aforementioned publications are available from the National Imagery and Mapping Agency, Interoperability Standards Division (SES), Mail Stop P-24, 12310 Sunrise Valley Drive, Reston, VA 20191-3449.)" immediately below "Digital Geographic Information Exchange Standard" reference.

Delete: "DMA Technical Manual (DMA TM) 8350.2 Department of Defense World Geodetic System 1984. (Stock Number DMATR 8350 WGS 84)" and substitute "NIMA Technical Report (NIMATR) 8350.2 Department of Defense World Geodetic System"

Delete: "(These publications are available from DMA by writing to: Defense Mapping Agency, Combat Support Center, ATTN: DDCP, 6001 MacArthur Blvd., Bethesda, MD 20816-5001.)" and substitute "(Copies of the aforementioned publications are available from the Defense Logistics Agency)"

PAGE 6

3.9: Delete "The horizontal resolution for geographic coordinates shall be stored to the equivalent precision of 0.1 arc-seconds or 0.00002 decimal degrees."

PAGE 21

Table 15: Add "cnx" to list of File Names and "connected node variable-length index file" to list of Table Descriptions, immediately following the entries for csi and connected node spatial index file respectively.

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Table 17: Change the definition of first_edge from "I,1,N" to " $I/K^2,1,N$ ".

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Renumber the existing note as "Note 1" and add the following note below it: "Note 2. Column type "K" is implemented for coverages that are tiled. For untiled coverages the column type is defined as "I"."

PAGE 23

Table 18: Change the definitions of right_face, left_face, right_edge, and left_edge from "K,1,N" to "I/K²,1,N".

Renumber the existing first note under Table 18 as "Note 3". Add a new Note 2 as follows, below the existing Note 1: "Note 2. Column type "K" is implemented for coverages that are tiled. For untiled coverages the column type is defined as "I"."

PAGE 27

Figure 7: Add "cnx" files immediately below the "csi" files in the fourth partition list of files.

PAGE 29

5.1.1: Delete "DMA" and substitute "NIMA".

PAGE 31

6.4.1: Add "NIMA National Imagery and Mapping Agency" immediately below "MSL" in the list of acronyms.

Delete "Vector Smart Map" and substitute "Vector Map".

PAGE 35

Table 23: Change the definitions of media_volumes, seq_numbers, and num_data_sets from "T,1,N" to "T,4,N".

Change vpf_version content from "1.0" to "9606".

Change database_desc content from "Vector Smart Map" to "Vector Map".

Change originator content from "HQ DMA PRW 8613 Lee Highway Fairfax VA 22031-2137" to "NATIONAL IMAGERY AND MAPPING AGENCY".

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Change addressee content from "N/A" to "Director, NIMA,
ATTN: COD, MS P-37, 4600 Sangamore Road, Bethesda, MD 20816-5003"

PAGE 38

Table 26: Change definitions of vert_datum_code,
sound_datum_code, and geo_datum_code from "T,3,N" to "T,4,N".

PAGE 41

50.2.1: Add "csi connected node spatial index file"
immediately below the "cnd" reference.

Change description of esi from "edge spatial index table" to
"edge spatial index file".

PAGE 52

Table 48: Change description content from "Digital data from
Digital Chart of the World database at scale of 1:1,000,000." to
"Digital data collected from previous editions of VMap0. MIL-STD-
2407(28 June 1996)."

PAGE 53

Table 49: Change definitions of vert_datum_code,
sound_datum_code, and geo_datum_code from "T,3,N" to "T,4,N".

PAGE 56

70.2.1: Add "csi connected node spatial index file"
immediately below the "cnd" reference.

Change description of esi from "edge spatial index table" to
"edge spatial index file".

Change description of fsi from "face spatial index table" to
"face spatial index file".

PAGE 58

70.2.2: Add "csi connected node spatial index file"
immediately below the "cnd" reference.

Change description of esi from "edge spatial index table" to
"edge spatial index file".

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PAGE 62

80.1: Delete "These tables may appear in multiple libraries;" and substitute "These tables may appear in multiple coverages;".

Preparing Activity:
NIMA - MP
(Project MCGT-0270)

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(This standard is printed in its entirety in Thompson, Morris M., Maps for America, U.S. Geological Survey, Third Edition, 1988, page 104.)

ISO 9660. 1988 (E). International Organization for Standardization Information Processing - Volume and File Structure of CD-ROM for Information Interchange. First Edition, 1988.

(Application for copies should be addressed to the American National Standards Institute, 1430 Broadway, New York, NY 10018.)

(Non-government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other information services.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for related associated detail specifications, specification sheets, or MS standards), the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Accuracy.

3.1.1 Absolute horizontal accuracy. This represents the difference between the recorded horizontal coordinates of features and their true positions. Absolute horizontal accuracy is expressed as a circular error at 90 percent probability (.9p).

The absolute horizontal accuracy of VMap Level 0 for all features derived from Operational Navigation Charts (ONCs) is 2,040 meters rounded to the nearest 5 meters at 90 percent circular error (CE), World Geodetic System (WGS 84). The absolute horizontal accuracy of VMap Level 0 for all features derived from Jet Navigation Charts (JNCs) is 4,270 meters at 90 percent circular error.

3.1.2 Absolute vertical accuracy. This represents the difference between an assigned elevation and the true elevation at a specific point. In this comparison, both elevations must be referenced to mean sea level (MSL). A point's elevation may be determined through interpolation of the digital contour file or it may be listed as a vertex coordinate of a feature.

For VMap Level 0 derived from cartographic source, vertical elevation values shall be filled with the VPF null (NaN), as defined in the VPF Mil-Standard Section 5.5.2, unless an elevation value is provided on the source material.

The absolute vertical accuracy of VMap Level 0 is the same as for the original ONC and JNC lithographs at 90 percent linear error (LE), mean sea level.

- a. Contour accuracy. The accuracy of contours collected from ONC source is +152.4 meters.
- b. Spot elevations. The accuracy of spot elevations collected from ONC source is +30 meters.

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3.1.3 Relative accuracy. NIMA does not have a formal relative accuracy objective for this product.

3.2 Datum.

3.2.1 Horizontal datum. The horizontal datum for this VMap product shall be WGS84 as identified in NIMATR 8350.2.

3.2.2 Vertical datum. The vertical datum for this VMap product shall be mean sea level (MSL).

3.3 Data density levels.

a. VMap Level 0 data are collected at a density of detail that approximates that of NIMA Standard small scale products.

b. Based on its data collection density, if VMap Level 0 data are to be output in hard-copy form, the appropriate scale for this output is at 1:1,000,000.

3.4 Database source and extent. The geographic extent of the VMap Level 0 product is global and consists of multiple regional databases. VMap Level 0 data from standard NIMA source products are derived from the feature content defined in the associated military specification. Exceptions to the defined feature content may be found in this specification.

3.5 Continuity. All VMap Level 0 data are subject to the inclusion conditions specified in Appendix section 80.

a. Each VMap database shall be organized into VPF libraries such that a seamless product is produced where data are present. No data overlap may exist in the libraries of this VMap database.

b. Where data collection procedures require individual source sheets, digital files or other media to be combined, features crossing source boundaries shall be continuous whenever possible. Exceptions to this rule occur when more current source data are used and the feature position or presence has changed, or a mismatch occurs due to different specifications of the incorporated source data. In these cases, a discontinuity along a source boundary shall occur and be documented in the Data Quality coverage.

3.6 Thematic layer organization. VMap Level 0 products are organized into thematic layers. Each VMap thematic layer is stored as a single coverage within a VPF library. There are two reference coverages and ten thematic coverages in the data library level (TABLE 1), and one reference coverage and three thematic coverages in the reference library (TABLE 1).

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TABLE 71. Political boundary point feature table.

Thematic Layer: Boundaries
 Coverage Name: **bnd**
 Table Description: Political Boundary Point Feature Table
 Table Name: **polbndp.pft**
 dq Layer Number: 1

{Header length}L; Political Boundary Point Feature Table;-; id=I,1,P,Row Identifier,-,-,-,; f_code=T,5,N,FACC Feature Code,char.vdt,-,-,; nam=T,*N,Name,char.vdt,-,-,; na2=T,2,N,Second Name,char.vdt,-,-,; na3=T,1,N,Classification Name,char.vdt,-,-,; tile_id=S,1,N,Tile Reference ID,-,tile1_id.pti,-,; end_id=I,1,N,Entity Node Primitive ID,-,endl_id.pti,-,;;					
1	FA001	US	N	1	1
:	:	:	:	:	:
n	n	n	n	n	n

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	FA001	Administrative Area	
nam	Name	UNK	Unknown	FA001
		actual value	(e.g. Pitcairn Islands)	FA001
na2	Second Name	Two-character country codes		FA001
		AA	Aruba	
		AC	Antigua and Barbuda	
		AE	United Arab Emirates	
		AF	Afghanistan	
		AG	Algeria	
		AJ	Azerbaijan	
		AL	Albania	
		AM	Armenia	
		AN	Andorra	
		AO	Angola	
		AQ	American Samoa	
		AR	Argentina	
		AS	Australia	
		AT	Ashmore and Cartier Islands	
		AU	Austria	
		AV	Anguilla	
		AY	Antarctica	
		BA	Bahrain	
		BB	Barbados	
		BC	Botswana	
		BD	Bermuda	

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BE	Belgium	
BF	The Bahamas	
BG	Bangladesh	
BH	Belize	
BK	Bosnia and Herzegovina	
BL	Bolivia	
BM	Burma	
BN	Benin	
BO	Belarus	
BP	Solomon Islands	
BQ	Navassa Island	
BR	Brazil	
BS	Bassas Da India	
BT	Bhutan	
BU	Bulgaria	
BV	Bouvet Island	
BX	Brunei	
BY	Burundi	
CA	Canada	
CB	Cambodia	
CD	Chad	
CE	Sri Lanka	
CF	Congo	
CG	Congo (Democratic Republic of the)	
CH	China	
CI	Chile	
CJ	Cayman Islands	
CK	Cocos (Keeling) Islands	
CM	Cameroon	
CN	Comoros	
CO	Colombia	
CQ	Northern Mariana Islands	
CR	Coral Sea Islands	
CS	Costa Rica	
CT	Central African Republic	
CU	Cuba	
CV	Cape Verde	
CW	Cook Islands	
CY	Cyprus	
DA	Denmark	
DJ	Djibouti	
DO	Dominica	
DQ	Jarvis Island	
DR	Dominican Republic	
EC	Ecuador	
EG	Egypt	
EI	Ireland	
EK	Equatorial Guinea	
EN	Estonia	
ER	Eritrea	
ES	El Salvador	
ET	Ethiopia	
EU	Europa Island	
EZ	Czech Republic	
FG	French Guiana	
FI	Finland	
FJ	Fiji	
FK	Falkland Islands (Islas Malvinas)	

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FM	Federated States of Micronesia	
FO	Faroe Islands	
FP	French Polynesia	
FQ	Baker Island	
FR	France	
FS	French Southern and Antarctic Lands	
GA	The Gambia	
GB	Gabon	
GG	Georgia	
GH	Ghana	
GI	Gibraltar	
GJ	Grenada	
GK	Guernsey	
GL	Greenland	
GM	Germany	
GO	Glorioso Islands	
GP	Guadeloupe	
GQ	Guam	
GR	Greece	
GT	Guatemala	
GV	Guinea	
GY	Guyana	
GZ	Gaza Strip	
HA	Haiti	
HK	Hong Kong	
HM	Heard Island and McDonald Islands	
HO	Honduras	
HQ	Howland Island	
HR	Croatia	
HU	Hungary	
IC	Iceland	
ID	Indonesia	
IM	Isle of Man	
IN	India	
IO	British Indian Ocean Territory	
IP	Clipperton Island	
IR	Iran	
IS	Israel	
IT	Italy	
IV	Cote D'Ivoire	
IZ	Iraq	
JA	Japan	
JE	Jersey	
JM	Jamaica	
JN	Jan Mayen	
JO	Jordan	
JQ	Johnston Atoll	
JU	Juan De Nova Island	
KE	Kenya	
KG	Kyrgyzstan	
KN	North Korea	
KQ	Kingman Reef	
KR	Kiribati	
KS	South Korea	
KT	Christmas Island	
KU	Kuwait	
KZ	Kazakhstan	
LA	Laos	

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LE	Lebanon	
LG	Latvia	
LH	Lithuania	
LI	Liberia	
LO	Slovakia	
LQ	Palmyra Atoll	
LS	Liechtenstein	
LT	Lesotho	
LU	Luxembourg	
LY	Libya	
MA	Madagascar	
MB	Martinique	
MC	Macau	
MD	Moldova	
MF	Mayotte	
MG	Mongolia	
MH	Montserrat	
MI	Malawi	
MK	The Former Yugoslav Republic of Macedonia	
ML	Mali	
MN	Monaco	
MO	Morocco	
MP	Mauritius	
MQ	Midway Islands	
MR	Mauritania	
MT	Malta	
MU	Oman	
MV	Maldives	
MW	Montenegro	
MX	Mexico	
MY	Malaysia	
MZ	Mozambique	
NC	New Caledonia	
NE	Niue	
NF	Norfolk Island	
NG	Niger	
NH	Vanuatu	
NI	Nigeria	
NL	Netherlands	
NO	Norway	
NP	Nepal	
NR	Nauru	
NS	Suriname	
NT	Netherlands Antilles	
NU	Nicaragua	
NZ	New Zealand	
OS	No Sovereignty	
PA	Paraguay	
PC	Pitcairn Islands	
PE	Peru	
PF	Paracel Islands	
PG	Spratly Islands	
PK	Pakistan	
PL	Poland	
PM	Panama	
PO	Portugal	
PP	Papua New Guinea	

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PS	Palau	
PU	Guinea-Bissau	
QA	Qatar	
RE	Reunion	
RM	Marshall Islands	
RO	Romania	
RP	Philippines	
RQ	Puerto Rico	
RS	Russia	
RW	Rwanda	
SA	Saudi Arabia	
SB	Saint Pierre and Miquelon	
SC	Saint Kitts and Nevis	
SE	Seychelles	
SF	South Africa	
SG	Senegal	
SH	Saint Helena	
SI	Slovenia	
SL	Sierra Leone	
SM	San Marino	
SN	Singapore	
SO	Somalia	
SP	Spain	
SR	Serbia	
ST	Saint Lucia	
SU	Sudan	
SV	Svalbard	
SW	Sweden	
SX	South Georgia and the South Sandwich Islands	
SY	Syria	
SZ	Switzerland	
TD	Trinidad and Tobago	
TE	Tromelin Island	
TH	Thailand	
TI	Tajikistan	
TK	Turks and Caicos Islands	
TL	Tokelau	
TN	Tonga	
TO	Togo	
TP	Sao Tome and Principe	
TS	Tunisia	
TU	Turkey	
TV	Tuvalu	
TW	Taiwan	
TX	Turkmenistan	
TZ	Tanzania	
UG	Uganda	
UK	United Kingdom	
UN	UN Control	
UP	Ukraine	
US	United States	
UV	Burkina Faso	
UY	Uruguay	
UZ	Uzbekistan	
VC	Saint Vincent and the Grenadines	
VE	Venezuela	

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VI	British Virgin Islands	
VM	Vietnam	
VQ	Virgin Islands	
VT	Vatican City	
WA	Namibia	
WE	West Bank	
WF	Wallis and Futuna	
WI	Western Sahara	
WQ	Wake Island	
WS	Samoa	
WZ	Swaziland	
YM	Yemen	
YY	Other	
ZA	Zambia	
ZI	Zimbabwe	

na3	Classification Name		
	A	Asia	FA001
	E	Europe	FA001
	F	Africa	FA001
	N	North America	FA001
	S	South America	FA001
	T	Antarctic Area	FA001
	U	Australian Area	FA001

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TABLE 77. Political boundary area feature table.

Thematic Layer: Boundaries
 Coverage Name: **bnd**
 Table Description: Political Boundary Area Feature Table
 Table Name: **polbnda.aft**
 dq Layer Number: 1

{Header length}L; Political Boundary Area Feature Table;-; id=I,1,P,Row Identifier,-,-,-; f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.ati,-,; nam=T,* ,N,Name,char.vdt,-,-,; na2=T,2,N,Second Name,char.vdt,-,-,; na3=T,1,N,Classification Name,char.vdt,-,-,; tile_id=S,1,N,Tile Reference ID,-,tile2_id.ati,-,; fac_id=I,1,N,Face Primitive ID,-,fac2_id.ati,-,;;						
1	FA00	Virgin	US	N	1	2
:	:	:	:	:	:	:
n	n	n	n	n	n	n

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	FA001	Administrative Area	
		FA070	Demilitarized Zone	
		FA170	Zone of Occupation	
nam	Name	zero-length	Null	FA070, FA170
			Character text string	FA001
			"UNK" (no entry present for feature)	FA001
na2	Second Name	Two-character country codes		FA001, FA070, FA170
		AA	Aruba	
		AC	Antigua and Barbuda	
		AE	United Arab Emirates	
		AF	Afghanistan	
		AG	Algeria	
		AJ	Azerbaijan	
		AL	Albania	
		AM	Armenia	
		AN	Andorra	
		AO	Angola	
		AQ	American Samoa	
		AR	Argentina	
		AS	Australia	
		AT	Ashmore and Cartier Islands	
		AU	Austria	
		AV	Anguilla	

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AY	Antarctica	
BA	Bahrain	
BB	Barbados	
BC	Botswana	
BD	Bermuda	
BE	Belgium	
BF	The Bahamas	
BG	Bangladesh	
BH	Belize	
BK	Bosnia and Herzegovina	
BL	Bolivia	
BM	Burma	
BN	Benin	
BO	Belarus	
BP	Solomon Islands	
BQ	Navassa Island	
BR	Brazil	
BS	Bassas Da India	
BT	Bhutan	
BU	Bulgaria	
BV	Bouvet Island	
BX	Brunei	
BY	Burundi	
CA	Canada	
CB	Cambodia	
CD	Chad	
CE	Sri Lanka	
CF	Congo	
CG	Congo (Democratic Republic of the)	
CH	China	
CI	Chile	
CJ	Cayman Islands	
CK	Cocos (Keeling) Islands	
CM	Cameroon	
CN	Comoros	
CO	Colombia	
CQ	Northern Mariana Islands	
CR	Coral Sea Islands	
CS	Costa Rica	
CT	Central African Republic	
CU	Cuba	
CV	Cape Verde	
CW	Cook Islands	
CY	Cyprus	
DA	Denmark	
DJ	Djibouti	
DO	Dominica	
DQ	Jarvis Island	
DR	Dominican Republic	
EC	Ecuador	
EG	Egypt	
EI	Ireland	
EK	Equatorial Guinea	
EN	Estonia	
ER	Eritrea	
ES	El Salvador	
ET	Ethiopia	
EU	Europa Island	

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EZ	Czech Republic	
FG	French Guiana	
FI	Finland	
FJ	Fiji	
FK	Falkland Islands (Islas Malvinas)	
FM	Federated States of Micronesia	
FO	Faroe Islands	
FP	French Polynesia	
FQ	Baker Island	
FR	France	
FS	French Southern and Antarctic Lands	
GA	The Gambia	
GB	Gabon	
GG	Georgia	
GH	Ghana	
GI	Gibraltar	
GJ	Grenada	
GK	Guernsey	
GL	Greenland	
GM	Germany	
GO	Glorioso Islands	
GP	Guadeloupe	
GQ	Guam	
GR	Greece	
GT	Guatemala	
GV	Guinea	
GY	Guyana	
GZ	Gaza Strip	
HA	Haiti	
HK	Hong Kong	
HM	Heard Island and McDonald Islands	
HO	Honduras	
HQ	Howland Island	
HR	Croatia	
HU	Hungary	
IC	Iceland	
ID	Indonesia	
IM	Isle of Man	
IN	India	
IO	British Indian Ocean Territory	
IP	Clipperton Island	
IR	Iran	
IS	Israel	
IT	Italy	
IV	Cote D'Ivoire	
IZ	Iraq	
JA	Japan	
JE	Jersey	
JM	Jamaica	
JN	Jan Mayen	
JO	Jordan	
JQ	Johnston Atoll	
JU	Juan De Nova Island	
KE	Kenya	
KG	Kyrgyzstan	
KN	North Korea	
KQ	Kingman Reef	
KR	Kiribati	

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KS	South Korea	
KT	Christmas Island	
KU	Kuwait	
KZ	Kazakhstan	
LA	Laos	
LE	Lebanon	
LG	Latvia	
LH	Lithuania	
LI	Liberia	
LO	Slovakia	
LQ	Palmyra Atoll	
LS	Liechtenstein	
LT	Lesotho	
LU	Luxembourg	
LY	Libya	
MA	Madagascar	
MB	Martinique	
MC	Macau	
MD	Moldova	
MF	Mayotte	
MG	Mongolia	
MH	Montserrat	
MI	Malawi	
MK	The Former Yugoslav Republic of Macedonia	
ML	Mali	
MN	Monaco	
MO	Morocco	
MP	Mauritius	
MQ	Midway Islands	
MR	Mauritania	
MT	Malta	
MU	Oman	
MV	Maldives	
MW	Montenegro	
MX	Mexico	
MY	Malaysia	
MZ	Mozambique	
NC	New Caledonia	
NE	Niue	
NF	Norfolk Island	
NG	Niger	
NH	Vanuatu	
NI	Nigeria	
NL	Netherlands	
NO	Norway	
NP	Nepal	
NR	Nauru	
NS	Suriname	
NT	Netherlands Antilles	
NU	Nicaragua	
NZ	New Zealand	
OS	No Sovereignty	
PA	Paraguay	
PC	Pitcairn Islands	
PE	Peru	
PF	Paracel Islands	
PG	Spratly Islands	

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PK	Pakistan	
PL	Poland	
PM	Panama	
PO	Portugal	
PP	Papua New Guinea	
PS	Palau	
PU	Guinea-Bissau	
QA	Qatar	
RE	Reunion	
RM	Marshall Islands	
RO	Romania	
RP	Philippines	
RQ	Puerto Rico	
RS	Russia	
RW	Rwanda	
SA	Saudi Arabia	
SB	Saint Pierre and Miquelon	
SC	Saint Kitts and Nevis	
SE	Seychelles	
SF	South Africa	
SG	Senegal	
SH	Saint Helena	
SI	Slovenia	
SL	Sierra Leone	
SM	San Marino	
SN	Singapore	
SO	Somalia	
SP	Spain	
SR	Serbia	
ST	Saint Lucia	
SU	Sudan	
SV	Svalbard	
SW	Sweden	
SX	South Georgia and the South Sandwich Islands	
SY	Syria	
SZ	Switzerland	
TD	Trinidad and Tobago	
TE	Tromelin Island	
TH	Thailand	
TI	Tajikistan	
TK	Turks and Caicos Islands	
TL	Tokelau	
TN	Tonga	
TO	Togo	
TP	Sao Tome and Principe	
TS	Tunisia	
TU	Turkey	
TV	Tuvalu	
TW	Taiwan	
TX	Turkmenistan	
TZ	Tanzania	
UG	Uganda	
UK	United Kingdom	
UN	UN Control	
UP	Ukraine	
US	United States	

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UV	Burkina Faso	
UY	Uruguay	
UZ	Uzbekistan	
VC	Saint Vincent and the Grenadines	
VE	Venezuela	
VI	British Virgin Islands	
VM	Vietnam	
VQ	Virgin Islands	
VT	Vatican City	
WA	Namibia	
WE	West Bank	
WF	Wallis and Futuna	
WI	Western Sahara	
WQ	Wake Island	
WS	Samoa	
WZ	Swaziland	
YM	Yemen	
YY	Other	
ZA	Zambia	
ZI	Zimbabwe	

na3

Classification Name

A	Asia	FA001, FA070, FA170
E	Europe	FA001, FA070, FA170
F	Africa	FA001, FA070, FA170
N	North America	FA001, FA070, FA170
S	South America	FA001, FA070, FA170
T	Antarctic Area	FA001, FA070, FA170
U	Australian Area	FA001, FA070, FA170

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TABLE 80. Boundaries character value description table.

Thematic Layer:	Boundaries
Coverage Name:	bnd
Table Description:	Boundaries Character Value Description Table
Table Name:	char.vdt
dq Layer Number:	1

{Header length}L; Boundaries Character Value Description Table;-; id=I,1,P,Row Identifier,-,-,-,; table=T,12,N,Name of the Feature Table,-,-,-,; attribute=T,6,N,Column Name,-,-,-,; value=T,5,N,Unique Value of Attribute,-,-,-,; description=T,50,N,Description of Value,-,-,-,;;				
1	polbndp.pft	f_code	FA001	Administrative Area
2	polbndp.pft	na2	AA	Aruba
3	polbndp.pft	na2	AC	Antigua and Barbuda
4	polbndp.pft	na2	AE	United Arab Emirates
5	polbndp.pft	na2	AF	Afghanistan
6	polbndp.pft	na2	AG	Algeria
7	polbndp.pft	na2	AJ	Azerbaijan
8	polbndp.pft	na2	AL	Albania
9	polbndp.pft	na2	AM	Armenia
10	polbndp.pft	na2	AN	Andorra
11	polbndp.pft	na2	AO	Angola
12	polbndp.pft	na2	AQ	American Samoa
13	polbndp.pft	na2	AR	Argentina
14	polbndp.pft	na2	AS	Australia
15	polbndp.pft	na2	AT	Ashmore and Cartier Islands
16	polbndp.pft	na2	AU	Austria
17	polbndp.pft	na2	AV	Anguilla
18	polbndp.pft	na2	AY	Antarctica
19	polbndp.pft	na2	BA	Bahrain
20	polbndp.pft	na2	BB	Barbados
21	polbndp.pft	na2	BC	Botswana
22	polbndp.pft	na2	BD	Bermuda
23	polbndp.pft	na2	BE	Belgium
24	polbndp.pft	na2	BF	The Bahamas
25	polbndp.pft	na2	BG	Bangladesh
26	polbndp.pft	na2	BH	Belize
27	polbndp.pft	na2	BK	Bosnia and Herzegovina
28	polbndp.pft	na2	BL	Bolivia
29	polbndp.pft	na2	BM	Burma
30	polbndp.pft	na2	BN	Benin
31	polbndp.pft	na2	BO	Belarus
32	polbndp.pft	na2	BP	Solomon Islands
33	polbndp.pft	na2	BQ	Navassa Island
34	polbndp.pft	na2	BR	Brazil
35	polbndp.pft	na2	BS	Bassas Da India
36	polbndp.pft	na2	BT	Bhutan
37	polbndp.pft	na2	BU	Bulgaria

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38	polbndp.pft	na2	BV	Bouvet Island	
39	polbndp.pft	na2	BX	Brunei	
40	polbndp.pft	na2	BY	Burundi	
41	polbndp.pft	na2	CA	Canada	
42	polbndp.pft	na2	CB	Cambodia	
43	polbndp.pft	na2	CD	Chad	
44	polbndp.pft	na2	CE	Sri Lanka	
45	polbndp.pft	na2	CF	Congo	
46	polbndp.pft	na2	CG	Congo (Democratic Republic of the)	
47	polbndp.pft	na2	CH	China	
48	polbndp.pft	na2	CI	Chile	
49	polbndp.pft	na2	CJ	Cayman Islands	
50	polbndp.pft	na2	CK	Cocos (Keeling) Islands	
51	polbndp.pft	na2	CM	Cameroon	
52	polbndp.pft	na2	CN	Comoros	
53	polbndp.pft	na2	CO	Colombia	
54	polbndp.pft	na2	CQ	Northern Mariana Islands	
55	polbndp.pft	na2	CR	Coral Sea Islands	
56	polbndp.pft	na2	CS	Costa Rica	
57	polbndp.pft	na2	CT	Central African Republic	
58	polbndp.pft	na2	CU	Cuba	
59	polbndp.pft	na2	CV	Cape Verde	
60	polbndp.pft	na2	CW	Cook Islands	
61	polbndp.pft	na2	CY	Cyprus	
62	polbndp.pft	na2	DA	Denmark	
63	polbndp.pft	na2	DJ	Djibouti	
64	polbndp.pft	na2	DO	Dominica	
65	polbndp.pft	na2	DQ	Jarvis Island	
66	polbndp.pft	na2	DR	Dominican Republic	
67	polbndp.pft	na2	EC	Ecuador	
68	polbndp.pft	na2	EG	Egypt	
69	polbndp.pft	na2	EI	Ireland	
70	polbndp.pft	na2	EK	Equatorial Guinea	
71	polbndp.pft	na2	EN	Estonia	
72	polbndp.pft	na2	ER	Eritrea	
73	polbndp.pft	na2	ES	El Salvador	
74	polbndp.pft	na2	ET	Ethiopia	
75	polbndp.pft	na2	EU	Europa Island	
76	polbndp.pft	na2	EZ	Czech Republic	
77	polbndp.pft	na2	FG	French Guiana	
78	polbndp.pft	na2	FI	Finland	
79	polbndp.pft	na2	FJ	Fiji	
80	polbndp.pft	na2	FK	Falkland Islands (Islas Malvinas)	
81	polbndp.pft	na2	FM	Federated States of Micronesia	
82	polbndp.pft	na2	FO	Faroe Islands	
83	polbndp.pft	na2	FP	French Polynesia	
84	polbndp.pft	na2	FQ	Baker Island	
85	polbndp.pft	na2	FR	France	
86	polbndp.pft	na2	FS	French Southern and Antarctic Lands	
87	polbndp.pft	na2	GA	The Gambia	

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88	polbndp.pft	na2	GB	Gabon	
89	polbndp.pft	na2	GG	Georgia	
90	polbndp.pft	na2	GH	Ghana	
91	polbndp.pft	na2	GI	Gibraltar	
92	polbndp.pft	na2	GJ	Grenada	
93	polbndp.pft	na2	GK	Guernsey	
94	polbndp.pft	na2	GL	Greenland	
95	polbndp.pft	na2	GM	Germany	
96	polbndp.pft	na2	GO	Glorioso Islands	
97	polbndp.pft	na2	GP	Guadeloupe	
98	polbndp.pft	na2	GQ	Guam	
99	polbndp.pft	na2	GR	Greece	
100	polbndp.pft	na2	GT	Guatemala	
101	polbndp.pft	na2	GV	Guinea	
102	polbndp.pft	na2	GY	Guyana	
103	polbndp.pft	na2	GZ	Gaza Strip	
104	polbndp.pft	na2	HA	Haiti	
105	polbndp.pft	na2	HK	Hong Kong	
106	polbndp.pft	na2	HM	Heard Island and McDonald Islands	
107	polbndp.pft	na2	HO	Honduras	
108	polbndp.pft	na2	HQ	Howland Island	
109	polbndp.pft	na2	HR	Croatia	
110	polbndp.pft	na2	HU	Hungary	
111	polbndp.pft	na2	IC	Iceland	
112	polbndp.pft	na2	ID	Indonesia	
113	polbndp.pft	na2	IM	Isle of Man	
114	polbndp.pft	na2	IN	India	
115	polbndp.pft	na2	IO	British Indian Ocean Territory	
116	polbndp.pft	na2	IP	Clipperton Island	
117	polbndp.pft	na2	IR	Iran	
118	polbndp.pft	na2	IS	Israel	
119	polbndp.pft	na2	IT	Italy	
120	polbndp.pft	na2	IV	Cote D'Ivoire	
121	polbndp.pft	na2	IZ	Iraq	
122	polbndp.pft	na2	JA	Japan	
123	polbndp.pft	na2	JE	Jersey	
124	polbndp.pft	na2	JM	Jamaica	
125	polbndp.pft	na2	JN	Jan Mayen	
126	polbndp.pft	na2	JO	Jordan	
127	polbndp.pft	na2	JQ	Johnston Atoll	
128	polbndp.pft	na2	JU	Juan De Nova Island	
129	polbndp.pft	na2	KE	Kenya	
130	polbndp.pft	na2	KG	Kyrgyzstan	
131	polbndp.pft	na2	KN	North Korea	
132	polbndp.pft	na2	KQ	Kingman Reef	
133	polbndp.pft	na2	KR	Kiribati	
134	polbndp.pft	na2	KS	South Korea	
135	polbndp.pft	na2	KT	Christmas Island	
136	polbndp.pft	na2	KU	Kuwait	
137	polbndp.pft	na2	KZ	Kazakhstan	

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138	polbndp.pft	na2	LA	Laos	
139	polbndp.pft	na2	LE	Lebanon	
140	polbndp.pft	na2	LG	Latvia	
141	polbndp.pft	na2	LH	Lithuania	
142	polbndp.pft	na2	LI	Liberia	
143	polbndp.pft	na2	LO	Slovakia	
144	polbndp.pft	na2	LQ	Palmyra Atoll	
145	polbndp.pft	na2	LS	Liechtenstein	
146	polbndp.pft	na2	LT	Lesotho	
147	polbndp.pft	na2	LU	Luxembourg	
148	polbndp.pft	na2	LY	Libya	
149	polbndp.pft	na2	MA	Madagascar	
150	polbndp.pft	na2	MB	Martinique	
151	polbndp.pft	na2	MC	Macau	
152	polbndp.pft	na2	MD	Moldova	
153	polbndp.pft	na2	MF	Mayotte	
154	polbndp.pft	na2	MG	Mongolia	
155	polbndp.pft	na2	MH	Montserrat	
156	polbndp.pft	na2	MI	Malawi	
157	polbndp.pft	na2	MK	The Former Yugoslav Republic of Macedonia	
158	polbndp.pft	na2	ML	Mali	
159	polbndp.pft	na2	MN	Monaco	
160	polbndp.pft	na2	MO	Morocco	
161	polbndp.pft	na2	MP	Mauritius	
162	polbndp.pft	na2	MQ	Midway Islands	
163	polbndp.pft	na2	MR	Mauritania	
164	polbndp.pft	na2	MT	Malta	
165	polbndp.pft	na2	MU	Oman	
166	polbndp.pft	na2	MV	Maldives	
167	polbndp.pft	na2	MW	Montenegro	
168	polbndp.pft	na2	MX	Mexico	
169	polbndp.pft	na2	MY	Malaysia	
170	polbndp.pft	na2	MZ	Mozambique	
171	polbndp.pft	na2	NC	New Caledonia	
172	polbndp.pft	na2	NE	Niue	
173	polbndp.pft	na2	NF	Norfolk Island	
174	polbndp.pft	na2	NG	Niger	
175	polbndp.pft	na2	NH	Vanuatu	
176	polbndp.pft	na2	NI	Nigeria	
177	polbndp.pft	na2	NL	Netherlands	
178	polbndp.pft	na2	NO	Norway	
179	polbndp.pft	na2	NP	Nepal	
180	polbndp.pft	na2	NR	Nauru	
181	polbndp.pft	na2	NS	Suriname	
182	polbndp.pft	na2	NT	Netherlands Antilles	
183	polbndp.pft	na2	NU	Nicaragua	
184	polbndp.pft	na2	NZ	New Zealand	
185	polbndp.pft	na2	OS	No Sovereignty	
186	polbndp.pft	na2	PA	Paraguay	

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187	polbndp.pft	na2	PC	Pitcairn Islands
188	polbndp.pft	na2	PE	Peru
189	polbndp.pft	na2	PF	Paracel Islands
190	polbndp.pft	na2	PG	Spratly Islands
191	polbndp.pft	na2	PK	Pakistan
192	polbndp.pft	na2	PL	Poland
193	polbndp.pft	na2	PM	Panama
194	polbndp.pft	na2	PO	Portugal
195	polbndp.pft	na2	PP	Papua New Guinea
196	polbndp.pft	na2	PS	Palau
197	polbndp.pft	na2	PU	Guinea-Bissau
198	polbndp.pft	na2	QA	Qatar
199	polbndp.pft	na2	RE	Reunion
200	polbndp.pft	na2	RM	Marshall Islands
201	polbndp.pft	na2	RO	Romania
202	polbndp.pft	na2	RP	Philippines
203	polbndp.pft	na2	RQ	Puerto Rico
204	polbndp.pft	na2	RS	Russia
205	polbndp.pft	na2	RW	Rwanda
206	polbndp.pft	na2	SA	Saudi Arabia
207	polbndp.pft	na2	SB	Saint Pierre and Miquelon
208	polbndp.pft	na2	SC	Saint Kitts and Nevis
209	polbndp.pft	na2	SE	Seychelles
210	polbndp.pft	na2	SF	South Africa
211	polbndp.pft	na2	SG	Senegal
212	polbndp.pft	na2	SH	Saint Helena
213	polbndp.pft	na2	SI	Slovenia
214	polbndp.pft	na2	SL	Sierra Leone
215	polbndp.pft	na2	SM	San Marino
216	polbndp.pft	na2	SN	Singapore
217	polbndp.pft	na2	SO	Somalia
218	polbndp.pft	na2	SP	Spain
219	polbndp.pft	na2	SR	Serbia
220	polbndp.pft	na2	ST	Saint Lucia
221	polbndp.pft	na2	SU	Sudan
222	polbndp.pft	na2	SV	Svalbard
223	polbndp.pft	na2	SW	Sweden
224	polbndp.pft	na2	SX	South Georgia and the South Sandwich Islands
225	polbndp.pft	na2	SY	Syria
226	polbndp.pft	na2	SZ	Switzerland
227	polbndp.pft	na2	TD	Trinidad and Tobago
228	polbndp.pft	na2	TE	Tromelin Island
229	polbndp.pft	na2	TH	Thailand
230	polbndp.pft	na2	TI	Tajikistan
231	polbndp.pft	na2	TK	Turks and Caicos Islands
232	polbndp.pft	na2	TL	Tokelau
233	polbndp.pft	na2	TN	Tonga
234	polbndp.pft	na2	TO	Togo
235	polbndp.pft	na2	TP	Sao Tome and Principe

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236	polbndp.pft	na2	TS	Tunisia	
237	polbndp.pft	na2	TU	Turkey	
238	polbndp.pft	na2	TV	Tuvalu	
239	polbndp.pft	na2	TW	Taiwan	
240	polbndp.pft	na2	TX	Turkmenistan	
241	polbndp.pft	na2	TZ	Tanzania	
242	polbndp.pft	na2	UG	Uganda	
243	polbndp.pft	na2	UK	United Kingdom	
244	polbndp.pft	na2	UN	UN Control	
245	polbndp.pft	na2	UP	Ukraine	
246	polbndp.pft	na2	US	United States	
247	polbndp.pft	na2	UV	Burkina Faso	
248	polbndp.pft	na2	UY	Uruguay	
249	polbndp.pft	na2	UZ	Uzbekistan	
250	polbndp.pft	na2	VC	Saint Vincent and the Grenadines	
251	polbndp.pft	na2	VE	Venezuela	
252	polbndp.pft	na2	VI	British Virgin Islands	
253	polbndp.pft	na2	VM	Vietnam	
254	polbndp.pft	na2	VQ	Virgin Islands	
255	polbndp.pft	na2	VT	Vatican City	
256	polbndp.pft	na2	WA	Namibia	
257	polbndp.pft	na2	WE	West Bank	
258	polbndp.pft	na2	WF	Wallis and Futuna	
259	polbndp.pft	na2	WI	Western Sahara	
260	polbndp.pft	na2	WQ	Wake Island	
261	polbndp.pft	na2	WS	Samoa	
262	polbndp.pft	na2	WZ	Swaziland	
263	polbndp.pft	na2	YM	Yemen	
264	polbndp.pft	na2	YY	Other	
265	polbndp.pft	na2	ZA	Zambia	
266	polbndp.pft	na2	ZI	Zimbabwe	
267	polbndp.pft	na3	A	Asia	
268	polbndp.pft	na3	E	Europe	
269	polbndp.pft	na3	F	Africa	
270	polbndp.pft	na3	N	North America	
271	polbndp.pft	na3	S	South America	
272	polbndp.pft	na3	T	Antarctic Area	
273	polbndp.pft	na3	U	Australian Area	
274	polbndp.pft	nam	UNK	No entry present	
275	barrierl.lft	f_code	AL260	Wall	
276	coastl.lft	f_code	BA010	Coastline/Shoreline	
277	depthl.lft	f_code	BE015	Depth Contour	
278	polbndl.lft	f_code	FA000	Administrative Boundary	
279	polbndl.lft	f_code	FA020	Armistice Line	
280	polbndl.lft	f_code	FA030	Cease-Fire Line	
281	polbndl.lft	f_code	FA040	Claim Line	
282	polbndl.lft	f_code	FA050	Mandate Line/Convention Line	
283	polbndl.lft	f_code	FA060	Defacto Boundary	
284	polbndl.lft	f_code	FA110	International Date Line	
285	oceansea.aft	f_code	BA040	Water (except Inland)	

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286	polbnda.aft	f_code	FA001	Administrative Area
287	polbnda.aft	f_code	FA070	Demilitarized Zone
288	polbnda.aft	f_code	FA170	Zone of Occupation
289	polbnda.aft	nam	UNK	No entry present
290	polbnda.aft	na2	AA	Aruba
291	polbnda.aft	na2	AC	Antigua and Barbuda
292	polbnda.aft	na2	AE	United Arab Emirates
293	polbnda.aft	na2	AF	Afghanistan
294	polbnda.aft	na2	AG	Algeria
295	polbnda.aft	na2	AJ	Azerbaijan
296	polbnda.aft	na2	AL	Albania
297	polbnda.aft	na2	AM	Armenia
298	polbnda.aft	na2	AN	Andorra
299	polbnda.aft	na2	AO	Angola
300	polbnda.aft	na2	AQ	American Samoa
301	polbnda.aft	na2	AR	Argentina
302	polbnda.aft	na2	AS	Australia
303	polbnda.aft	na2	AT	Ashmore and Cartier Islands
304	polbnda.aft	na2	AU	Austria
305	polbnda.aft	na2	AV	Anguilla
306	polbnda.aft	na2	AY	Antarctica
307	polbnda.aft	na2	BA	Bahrain
308	polbnda.aft	na2	BB	Barbados
309	polbnda.aft	na2	BC	Botswana
310	polbnda.aft	na2	BD	Bermuda
311	polbnda.aft	na2	BE	Belgium
312	polbnda.aft	na2	BF	The Bahamas
313	polbnda.aft	na2	BG	Bangladesh
314	polbnda.aft	na2	BH	Belize
315	polbnda.aft	na2	BK	Bosnia and Herzegovina
316	polbnda.aft	na2	BL	Bolivia
317	polbnda.aft	na2	BM	Burma
318	polbnda.aft	na2	BN	Benin
319	polbnda.aft	na2	BO	Belarus
320	polbnda.aft	na2	BP	Solomon Islands
321	polbnda.aft	na2	BQ	Navassa Island
322	polbnda.aft	na2	BR	Brazil
323	polbnda.aft	na2	BS	Bassas Da India
324	polbnda.aft	na2	BT	Bhutan
325	polbnda.aft	na2	BU	Bulgaria
326	polbnda.aft	na2	BV	Bouvet Island
327	polbnda.aft	na2	BX	Brunei
328	polbnda.aft	na2	BY	Burundi
329	polbnda.aft	na2	CA	Canada
330	polbnda.aft	na2	CB	Cambodia
331	polbnda.aft	na2	CD	Chad
332	polbnda.aft	na2	CE	Sri Lanka
333	polbnda.aft	na2	CF	Congo
334	polbnda.aft	na2	CG	Congo (Democratic Republic of the)
335	polbnda.aft	na2	CH	China

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336	polbnda.aft	na2	CI	Chile
337	polbnda.aft	na2	CJ	Cayman Islands
338	polbnda.aft	na2	CK	Cocos (Keeling) Islands
339	polbnda.aft	na2	CM	Cameroon
340	polbnda.aft	na2	CN	Comoros
341	polbnda.aft	na2	CO	Colombia
342	polbnda.aft	na2	CQ	Northern Mariana Islands
343	polbnda.aft	na2	CR	Coral Sea Islands
344	polbnda.aft	na2	CS	Costa Rica
345	polbnda.aft	na2	CT	Central African Republic
346	polbnda.aft	na2	CU	Cuba
347	polbnda.aft	na2	CV	Cape Verde
348	polbnda.aft	na2	CW	Cook Islands
349	polbnda.aft	na2	CY	Cyprus
350	polbnda.aft	na2	DA	Denmark
351	polbnda.aft	na2	DJ	Djibouti
352	polbnda.aft	na2	DO	Dominica
353	polbnda.aft	na2	DQ	Jarvis Island
354	polbnda.aft	na2	DR	Dominican Republic
355	polbnda.aft	na2	EC	Ecuador
356	polbnda.aft	na2	EG	Egypt
357	polbnda.aft	na2	EI	Ireland
358	polbnda.aft	na2	EK	Equatorial Guinea
359	polbnda.aft	na2	EN	Estonia
360	polbnda.aft	na2	ER	Eritrea
361	polbnda.aft	na2	ES	El Salvador
362	polbnda.aft	na2	ET	Ethiopia
363	polbnda.aft	na2	EU	Europa Island
364	polbnda.aft	na2	EZ	Czech Republic
365	polbnda.aft	na2	FG	French Guiana
366	polbnda.aft	na2	FI	Finland
367	polbnda.aft	na2	FJ	Fiji
368	polbnda.aft	na2	FK	Falkland Islands (Islas Malvinas)
369	polbnda.aft	na2	FM	Federated States of Micronesia
370	polbnda.aft	na2	FO	Faroe Islands
371	polbnda.aft	na2	FP	French Polynesia
372	polbnda.aft	na2	FQ	Baker Island
373	polbnda.aft	na2	FR	France
374	polbnda.aft	na2	FS	French Southern and Antarctic Lands
375	polbnda.aft	na2	GA	The Gambia
376	polbnda.aft	na2	GB	Gabon
377	polbnda.aft	na2	GG	Georgia
378	polbnda.aft	na2	GH	Ghana
379	polbnda.aft	na2	GI	Gibraltar
380	polbnda.aft	na2	GJ	Grenada
381	polbnda.aft	na2	GK	Guernsey
382	polbnda.aft	na2	GL	Greenland
383	polbnda.aft	na2	GM	Germany
384	polbnda.aft	na2	GO	Glorioso Islands
385	polbnda.aft	na2	GP	Guadeloupe

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386	polbnda.aft	na2	GQ	Guam	
387	polbnda.aft	na2	GR	Greece	
388	polbnda.aft	na2	GT	Guatemala	
389	polbnda.aft	na2	GV	Guinea	
390	polbnda.aft	na2	GY	Guyana	
391	polbnda.aft	na2	GZ	Gaza Strip	
392	polbnda.aft	na2	HA	Haiti	
393	polbnda.aft	na2	HK	Hong Kong	
394	polbnda.aft	na2	HM	Heard Island and McDonald Islands	
395	polbnda.aft	na2	HO	Honduras	
396	polbnda.aft	na2	HQ	Howland Island	
397	polbnda.aft	na2	HR	Croatia	
398	polbnda.aft	na2	HU	Hungary	
399	polbnda.aft	na2	IC	Iceland	
400	polbnda.aft	na2	ID	Indonesia	
401	polbnda.aft	na2	IM	Isle of Man	
402	polbnda.aft	na2	IN	India	
403	polbnda.aft	na2	IO	British Indian Ocean Territory	
404	polbnda.aft	na2	IP	Clipperton Island	
405	polbnda.aft	na2	IR	Iran	
406	polbnda.aft	na2	IS	Israel	
407	polbnda.aft	na2	IT	Italy	
408	polbnda.aft	na2	IV	Cote D'Ivoire	
409	polbnda.aft	na2	IZ	Iraq	
410	polbnda.aft	na2	JA	Japan	
411	polbnda.aft	na2	JE	Jersey	
412	polbnda.aft	na2	JM	Jamaica	
413	polbnda.aft	na2	JN	Jan Mayen	
414	polbnda.aft	na2	JO	Jordan	
415	polbnda.aft	na2	JQ	Johnston Atoll	
416	polbnda.aft	na2	JU	Juan De Nova Island	
417	polbnda.aft	na2	KE	Kenya	
418	polbnda.aft	na2	KG	Kyrgyzstan	
419	polbnda.aft	na2	KN	North Korea	
420	polbnda.aft	na2	KQ	Kingman Reef	
421	polbnda.aft	na2	KR	Kiribati	
422	polbnda.aft	na2	KS	South Korea	
423	polbnda.aft	na2	KT	Christmas Island	
424	polbnda.aft	na2	KU	Kuwait	
425	polbnda.aft	na2	KZ	Kazakhstan	
426	polbnda.aft	na2	LA	Laos	
427	polbnda.aft	na2	LE	Lebanon	
428	polbnda.aft	na2	LG	Latvia	
429	polbnda.aft	na2	LH	Lithuania	
430	polbnda.aft	na2	LI	Liberia	
431	polbnda.aft	na2	LO	Slovakia	
432	polbnda.aft	na2	LQ	Palmyra Atoll	
433	polbnda.aft	na2	LS	Liechtenstein	
434	polbnda.aft	na2	LT	Lesotho	
435	polbnda.aft	na2	LU	Luxembourg	

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436	polbnda.aft	na2	LY	Libya
437	polbnda.aft	na2	MA	Madagascar
438	polbnda.aft	na2	MB	Martinique
439	polbnda.aft	na2	MC	Macau
440	polbnda.aft	na2	MD	Moldova
441	polbnda.aft	na2	MF	Mayotte
442	polbnda.aft	na2	MG	Mongolia
443	polbnda.aft	na2	MH	Montserrat
444	polbnda.aft	na2	MI	Malawi
445	polbnda.aft	na2	MK	The Former Yugoslav Republic of Macedonia
446	polbnda.aft	na2	ML	Mali
447	polbnda.aft	na2	MN	Monaco
448	polbnda.aft	na2	MO	Morocco
449	polbnda.aft	na2	MP	Mauritius
450	polbnda.aft	na2	MQ	Midway Islands
451	polbnda.aft	na2	MR	Mauritania
452	polbnda.aft	na2	MT	Malta
453	polbnda.aft	na2	MU	Oman
454	polbnda.aft	na2	MV	Maldives
455	polbnda.aft	na2	MW	Montenegro
456	polbnda.aft	na2	MX	Mexico
457	polbnda.aft	na2	MY	Malaysia
458	polbnda.aft	na2	MZ	Mozambique
459	polbnda.aft	na2	NC	New Caledonia
460	polbnda.aft	na2	NE	Niue
461	polbnda.aft	na2	NF	Norfolk Island
462	polbnda.aft	na2	NG	Niger
463	polbnda.aft	na2	NH	Vanuatu
464	polbnda.aft	na2	NI	Nigeria
465	polbnda.aft	na2	NL	Netherlands
466	polbnda.aft	na2	NO	Norway
467	polbnda.aft	na2	NP	Nepal
468	polbnda.aft	na2	NR	Nauru
469	polbnda.aft	na2	NS	Suriname
470	polbnda.aft	na2	NT	Netherlands Antilles
471	polbnda.aft	na2	NU	Nicaragua
472	polbnda.aft	na2	NZ	New Zealand
473	polbnda.aft	na2	OS	No Sovereignty
474	polbnda.aft	na2	PA	Paraguay
475	polbnda.aft	na2	PC	Pitcairn Islands
476	polbnda.aft	na2	PE	Peru
477	polbnda.aft	na2	PF	Paracel Islands
478	polbnda.aft	na2	PG	Spratly Islands
479	polbnda.aft	na2	PK	Pakistan
480	polbnda.aft	na2	PL	Poland
481	polbnda.aft	na2	PM	Panama
482	polbnda.aft	na2	PO	Portugal
483	polbnda.aft	na2	PP	Papua New Guinea
484	polbnda.aft	na2	PS	Palau

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485	polbnda.aft	na2	PU	Guinea-Bissau
486	polbnda.aft	na2	QA	Qatar
487	polbnda.aft	na2	RE	Reunion
488	polbnda.aft	na2	RM	Marshall Islands
489	polbnda.aft	na2	RO	Romania
490	polbnda.aft	na2	RP	Philippines
491	polbnda.aft	na2	RQ	Puerto Rico
492	polbnda.aft	na2	RS	Russia
493	polbnda.aft	na2	RW	Rwanda
494	polbnda.aft	na2	SA	Saudi Arabia
495	polbnda.aft	na2	SB	Saint Pierre and Miquelon
496	polbnda.aft	na2	SC	Saint Kitts and Nevis
497	polbnda.aft	na2	SE	Seychelles
498	polbnda.aft	na2	SF	South Africa
499	polbnda.aft	na2	SG	Senegal
500	polbnda.aft	na2	SH	Saint Helena
501	polbnda.aft	na2	SI	Slovenia
502	polbnda.aft	na2	SL	Sierra Leone
503	polbnda.aft	na2	SM	San Marino
504	polbnda.aft	na2	SN	Singapore
505	polbnda.aft	na2	SO	Somalia
506	polbnda.aft	na2	SR	Serbia
507	polbnda.aft	na2	SP	Spain
508	polbnda.aft	na2	ST	Saint Lucia
509	polbnda.aft	na2	SU	Sudan
510	polbnda.aft	na2	SV	Svalbard
511	polbnda.aft	na2	SW	Sweden
512	polbnda.aft	na2	SX	South Georgia and the South Sandwich Islands
513	polbnda.aft	na2	SY	Syria
514	polbnda.aft	na2	SZ	Switzerland
515	polbnda.aft	na2	TD	Trinidad and Tobago
516	polbnda.aft	na2	TE	Tromelin Island
517	polbnda.aft	na2	TH	Thailand
518	polbnda.aft	na2	TI	Tajikistan
519	polbnda.aft	na2	TK	Turks and Caicos Islands
520	polbnda.aft	na2	TL	Tokelau
521	polbnda.aft	na2	TN	Tonga
522	polbnda.aft	na2	TO	Togo
523	polbnda.aft	na2	TP	Sao Tome and Principe
524	polbnda.aft	na2	TS	Tunisia
525	polbnda.aft	na2	TU	Turkey
526	polbnda.aft	na2	TV	Tuvalu
527	polbnda.aft	na2	TW	Taiwan
528	polbnda.aft	na2	TX	Turkmenistan
529	polbnda.aft	na2	TZ	Tanzania
530	polbnda.aft	na2	UG	Uganda
531	polbnda.aft	na2	UK	United Kingdom
532	polbnda.aft	na2	UN	UN Control
533	polbnda.aft	na2	UP	Ukraine

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534	polbnda.aft	na2	US	United States
535	polbnda.aft	na2	UV	Burkina Faso
536	polbnda.aft	na2	UY	Uruguay
537	polbnda.aft	na2	UZ	Uzbekistan
538	polbnda.aft	na2	VC	Saint Vincent and the Grenadines
539	polbnda.aft	na2	VE	Venezuela
540	polbnda.aft	na2	VI	British Virgin Islands
541	polbnda.aft	na2	VM	Vietnam
542	polbnda.aft	na2	VQ	Virgin Islands
543	polbnda.aft	na2	VT	Vatican City
544	polbnda.aft	na2	WA	Namibia
545	polbnda.aft	na2	WE	West Bank
546	polbnda.aft	na2	WF	Wallis and Futuna
547	polbnda.aft	na2	WI	Western Sahara
548	polbnda.aft	na2	WQ	Wake Island
549	polbnda.aft	na2	WS	Samoa
550	polbnda.aft	na2	WZ	Swaziland
551	polbnda.aft	na2	YM	Yemen
552	polbnda.aft	na2	YY	Other
553	polbnda.aft	na2	ZA	Zambia
554	polbnda.aft	na2	ZI	Zimbabwe
555	polbnda.aft	na3	A	Asia
556	polbnda.aft	na3	E	Europe
557	polbnda.aft	na3	F	Africa
558	polbnda.aft	na3	N	North America
559	polbnda.aft	na3	S	South America
560	polbnda.aft	na3	T	Antarctic Area
561	polbnda.aft	na3	U	Australian Area
562	bndtxt.tft	f_code	ZD040	Named Location
563	bndtxt.tft	f_code	ZD045	Text Description
564	fca	type	A	Area Feature
565	fca	type	L	Line Feature
566	fca	type	P	Point/Node Feature
567	fca	type	T	Text Feature
568	dqpoint.pft	f_code	FA001	Administrative Area
569	dqpoint.pft	f_code	ZD045	Text Description
570	dqline.lft	f_code	AL260	Wall
571	dqline.lft	f_code	BA010	Coastline/Shoreline
572	dqline.lft	f_code	BE015	Depth Contour
573	dqline.lft	f_code	FA000	Administrative Boundary
574	dqline.lft	f_code	FA020	Armistice Line
575	dqline.lft	f_code	FA030	Cease-Fire Line
576	dqline.lft	f_code	FA040	Claim Line
577	dqline.lft	f_code	FA050	Mandate Line/Convention Line
578	dqline.lft	f_code	FA060	Defacto Boundary
579	dqline.lft	f_code	FA110	International Date Line
580	dqline.lft	f_code	ZD045	Text Description
581	dqarea.aft	f_code	BA040	Water (except Inland)
582	dqarea.aft	f_code	FA001	Administrative Area
583	dqarea.aft	f_code	FA070	Demilitarized Zone

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584	dgarea.aft	f_code	FA170	Zone of Occupation
585	dgarea.aft	f_code	ZD045	Text Description

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TABLE 81. Boundaries integer value description table.

Thematic Layer:	Boundaries
Coverage Name:	bnd
Table Description:	Boundaries Integer Value Description Table
Table Name:	int.vdt
dq Layer Number:	1

{Header length}L; Boundaries Integer Value Description Table;-; id=I,1,P,Row Identifier,-,-,-,; table=T,12,N,Name of the Feature Table,-,-,-,; attribute=T,3,N,Column Name,-,-,-,; value=S,1,N,Unique Value of Attribute,-,-,-,; description=T,50,N,Description of Value,-,-,-,;;				
1	coastl.lft	acc	0	Unknown
2	coastl.lft	acc	1	Accurate
3	coastl.lft	acc	2	Approximate
4	coastl.lft	exs	0	Unknown
5	coastl.lft	exs	1	Definite
6	coastl.lft	exs	44	Approximate/About
7	coastl.lft	exs	46	Man-made
8	coastl.lft	exs	55	Unexamined/Unsurveyed
9	coastl.lft	exs	60	Indefinite (Shoreline)
10	polbndl.lft	acc	1	Accurate
11	polbndl.lft	acc	2	Approximate
12	polbndl.lft	bst	1	Definite
13	polbndl.lft	bst	2	Indefinite
14	polbndl.lft	bst	3	In Dispute
15	polbndl.lft	bst	4	No Defined Boundary
16	polbndl.lft	use	23	International
17	polbndl.lft	use	26	Primary/1st Order
18	symbol.rat	fon	1	Machine Default
19	symbol.rat	sty	1	Kern
20	symbol.rat	sty	2	Proportional
21	symbol.rat	sty	3	Constant
22	symbol.rat	col	1	Black
23	symbol.rat	col	4	Blue
24	symbol.rat	col	9	Red-Brown
25	symbol.rat	col	12	Magenta

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TABLE 99. Aqueduct/Canal/Flume/Penstock line feature table.

Thematic Layer: Hydrography
 Coverage Name: **hydro**
 Table Description: Aqueduct/Canal/Flume/Penstock Line Feature Table
 Table Name: **aquecanl.lft**
 dq Layer Number: 3

{Header length}L; Aqueduct/Canal/Flume/Penstock Line Feature Table;-; id=I,1,P,Row Identifier,-,-,-; f_code=T,5,N,FACC Feature Code,char.vdt,-,-,; exs=S,1,N,Existence Category,int.vdt,-,-,; loc=S,1,N,Location Category,int.vdt,-,-,; nam=T,* ,N,Name,char.vdt,-,-,; tile_id=S,1,N,Tile Reference ID,-,tile1_id.lti,-,; edg_id=I,1,N,Edge Primitive ID,-,edg1_id.lti,-,;;					
1	BH000	6	0	1	1
:	:	:	:	:	:
n	n	n	n	n	n

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	BH000	Inland Water	
exs	Existence Category	1	Definite	BH000
		5	Under Construction	BH000
		6	Abandoned/Disused	BH000
loc	Location Category	0	Unknown	BH000
		4	Below Surface/Submerged	
			Underground	BH000
		8	On Ground Surface	BH000
		25	Suspended or Elevated	
			Above Ground or Water	
			Surface	BH000
nam	Name	Character text string		BH000
		"UNK" (no entry present for feature)		BH000

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TABLE 100. Danger line feature table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Danger Line Feature Table
Table Name: **danger1.1ft**
dq Layer Number: 3

{Header length}L; Danger Line Feature Table;-; id=I,1,P,Row Identifier,-,-,-; f_code=T,5,N,FACC Feature Code,char.vdt,f_code2.lti,-,: tile_id=S,1,N,Tile Reference ID,-,tile2_id.lti,-,: edg_id=I,1,N,Edge Primitive ID,-,edg2_id.lti,-,;;			
1	BD000	1	1
:	:	:	:
n	n	n	n

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	BD000	Underwater-Danger/Hazard	
		BD120	Reef	

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TABLE 101. Miscellaneous line feature table.

Thematic Layer: Hydrography
 Coverage Name: **hydro**
 Table Description: Miscellaneous Line Feature Table
 Table Name: **misc1.lft**
 dq Layer Number: 3

{Header length}L; Miscellaneous Line Feature Table;-; id=I,1,P,Row Identifier,-,-,-,; f_code=T,5,N,FACC Feature Code,char.vdt,f_code3.lti,- ,; tile_id=S,1,N,Tile Reference ID,-,tile3_id.lti,-,; edg_id=I,1,N,Edge Primitive ID,-,edg3_id.lti,-,;;			
1	BB040	1	1
:	:	:	:
n	n	n	n

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	BB040	Breakwater/Groyne	
		BB230	Seawall	
		BI020	Dam/Weir	

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TABLE 102. Water course line feature table.

Thematic Layer: Hydrography
 Coverage Name: **hydro**
 Table Description: Water Course Line Feature Table
 Table Name: **watrcrs1.lft**
 dq Layer Number: 3

{Header length}L; Water Course Line Feature Table;-; id=I,1,P,Row Identifier,-,-,-,; f_code=T,5,N,FACC Feature Code,char.vdt,-,-,; hyc=S,1,N,Hydrological Category,int.vdt,-,-,; nam=T,*,N,Name,char.vdt,-,-,; tile_id=S,1,N,Tile Reference ID,-,tile4_id.lti,-,; edg_id=I,1,N,Edge Primitive ID,-,edg4_id.lti,-,;				
1	BH140	6	1	1
2	BH140	8	2	2
3	BH140	8	3	3
:	:	:	:	:
n	n	n	n	n

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	BH140	River/Stream	
hyc	Hydrological Category	6	Non-Perennial/Intermittent/Fluctuating	BH140
		8	Perennial/Permanent	BH140
nam	Name	Character text string		BH140
		"UNK" (no entry present for feature)		BH140

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TABLE 103. Inland water area feature table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Inland Water Area Feature Table
Table Name: **inwatera.aft**
dq Layer Number: 3

{Header length}L; Inland Water Area Feature Table;-; id=I,1,P,Row Identifier,-,-,-; f_code=T,5,N,FACC Feature Code,char.vdt,f_code1.ati,-,; hyc=S,1,N,Hydrological Category,int.vdt,-,-; nam=T,*N,Name,char.vdt,-,-; tile_id=S,1,N,Tile Reference ID,-,tile1_id.ati,-,; fac_id=I,1,N,Face Primitive ID,-,fac1_id.ati,-,;;				
1	BH090	6	1	2
2	BH000	6	2	3
3	BH000	8	2	4
:	:	:	:	:
n	n	n	n	n

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	BH090	Land Subject to Inundation	
		BH000	Inland Water	
hyc	Hydrological Category	6	Non-Perennial/Intermittent/ Fluctuating	BH090, BH000
		8	Perennial/Permanent	BH000
nam	Name	zero-length	Null	BH090
		Character text string		BH000
		"UNK" (no entry present for feature)		BH000

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TABLE 104. Hydrography text feature table.

Thematic Layer: Hydrography
 Coverage Name: **hydro**
 Table Description: Hydrography Text Feature Table
 Table Name: **hydrotxt.tft**
 dq Layer Number: 3

{Header length}L; Hydrography Text Feature Table;-; id=I,1,P,Row Identifier,-,-,-,; f_code=T,5,N,FACC Feature Code,char.vdt,f_codel.tti,-,; symbol_id=S,1,N,Symbol Identification,-,-,-,; tile_id=S,1,N,Tile Reference ID,-,tile1_id.tti,-,; txt_id=I,1,N,Text Primitive ID,-,txt1_id.tti,-,;				
1	ZD040	TBD	1	1
2	ZD045	TBD	4	45
:	:	:	:	:
n	n	n	n	n

Column	Description	Value	Value Meaning	Applicable f_code for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
f_code	FACC Feature Code	ZD040	Named Location	
		ZD045	Text Description	
symbol_id	Symbol Identification (Refer to Symbol Related Attribute Table for selection of values)			

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TABLE 105. Hydrography feature class attribute table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Hydrography Feature Class Attribute Table
Table Name: **fca**
dq Layer Number: 3

{Header length}L; Hydrography Feature Class Attribute Table;-; id=I,1,P,Row Identifier,-,-,-,; fclass=T,8,U,Feature Class Name,-,-,-,; type=T,1,N,Feature Type,char.vdt,-,-,; descr=T,*,N,Description,-,-,-,;;			
1	dangerp	P	Danger Point Features
:	:	:	:
n	n	n	n

Column	Description	Value	Value Meaning	Applicable Feature Class for Each Attribute Value
id	Row Identifier	Sequential beginning with 1		
fclass	Feature Class Name	dangerp miscp aquecanl dangerl miscl watcrsl inwatera hydrotxt		
type	Feature Type	P	Point Feature	dangerp, miscp
		L	Line Feature	aquecanl, dangerl, miscl, watcrsl
		A	Area Feature	inwatera
		T	Text Feature	hydrotxt
descr	Description	Danger Point Features Miscellaneous Point Features Aqueducts/Canals/Flumes/ Penstocks Danger Line Features Miscellaneous Line Features Water Courses Inland Water Areas Hydrography Coverage Text		
		dangerp miscp aquecanl dangerl miscl watcrsl inwatera hydrotxt		

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TABLE 106. Hydrography character value description table.

Thematic Layer: Hydrography
Coverage Name: **hydro**
Table Description: Hydrography Character Value Description Table
Table Name: **char.vdt**
dq Layer Number: 3

{Header length}L; Hydrography Character Value Description Table;-; id=I,1,P,Row Identifier,-,-,-,; table=T,12,N,Name of the Feature Table,-,-,-,; attribute=T,6,N,Column Name,-,-,-,; value=T,5,N,Unique Value of Attribute,-,-,-,; description=T,50,N,Description of Value,-,-,-,;;				
1	dangerp.pft	f_code	BD130	Rock
2	dangerp.pft	f_code	BD180	Wreck
3	miscp.pft	f_code	BA030	Island
4	miscp.pft	f_code	BH120	Rapids
5	miscp.pft	f_code	BH170	Spring/Water-Hole
6	miscp.pft	f_code	BH180	Waterfall
7	miscp.pft	f_code	BI020	Dam/Weir
8	miscp.pft	f_code	BI030	Lock
9	miscp.pft	f_code	BI040	Sluice Gate
10	aquecanl.lft	f_code	BH000	Inland Water
11	aquecanl.lft	nam	UNK	No entry present
12	dangerl.lft	f_code	BD000	Underwater-Danger/Hazard
13	dangerl.lft	f_code	BD120	Reef
14	miscl.lft	f_code	BB040	Breakwater/Groyne
15	miscl.lft	f_code	BB230	Seawall
16	miscl.lft	f_code	BI020	Dam/Weir
17	watcrsl.lft	f_code	BH140	River/Stream
18	watcrsl.lft	nam	UNK	No entry present
19	inwatera.aft	f_code	BH090	Land Subject to Inundation
20	inwatera.aft	f_code	BH000	Inland Water
21	inwatera.aft	nam	UNK	No entry present
22	hydrotxt.tft	f_code	ZD040	Named Location
23	hydrotxt.tft	f_code	ZD045	Text Description
24	fca	type	A	Area Feature
25	fca	type	L	Line Feature
26	fca	type	P	Point/Node Feature
27	fca	type	T	Text Feature
28	dqpoint.pft	f_code	BD130	Rock
29	dqpoint.pft	f_code	BD180	Wreck
30	dqpoint.pft	f_code	BA030	Island
31	dqpoint.pft	f_code	BH120	Rapids
32	dqpoint.pft	f_code	BH170	Spring/Water-Hole
33	dqpoint.pft	f_code	BH180	Waterfall
34	dqpoint.pft	f_code	BI020	Dam/Weir
35	dqpoint.pft	f_code	BI030	Lock
36	dqpoint.pft	f_code	BI040	Sluice Gate
37	dqpoint.pft	f_code	ZD045	Text Description
38	dqline.lft	f_code	BH000	Inland Water

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39	dqline.lft	f_code	BD000	Underwater-Danger/Hazard
40	dqline.lft	f_code	BD120	Reef
41	dqline.lft	f_code	BB040	Breakwater/Groyne
42	dqline.lft	f_code	BB230	Seawall
43	dqline.lft	f_code	BI020	Dam/Weir
44	dqline.lft	f_code	BH140	River/Stream
45	dqline.lft	f_code	ZD045	Text Description
46	dqarea.aft	f_code	BH090	Land Subject to Inundation
47	dqarea.aft	f_code	BH000	Inland Water
48	dqarea.aft	f_code	ZD045	Text Description

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TABLE 107. Hydrography integer value description table.

Thematic Layer: Hydrography
 Coverage Name: **hydro**
 Table Description: Hydrography Integer Value Description Table
 Table Name: **int.vdt**
 dq Layer Number: 3

{Header length}L; Hydrography Integer Value Description Table;-; id=I,1,P,Row Identifier,-,-,-,; table=T,12,N,Name of the Feature Table,-,-,-,; attribute=T,3,N,Column Name,-,-,-,; value=S,1,N,Unique Value of Attribute,-,-,-,; description=T,50,N,Description of Value,-,-,-,;				
1	aquecanl.lft	exs	1	Definite
2	aquecanl.lft	exs	5	Under Construction
3	aquecanl.lft	exs	6	Abandoned/Disused
4	aquecanl.lft	loc	0	Unknown
5	aquecanl.lft	loc	4	Below Surface/Submerged/Underground
6	aquecanl.lft	loc	8	On Ground Surface
7	aquecanl.lft	loc	25	Suspended/Elevated Above Ground or Water Surface
8	watrcrsl.lft	hyc	6	Non-Perennial/Intermittent/Fluctuating
9	watrcrsl.lft	hyc	8	Perennial/Permanent
10	inwatera.aft	hyc	6	Non-Perennial/Intermittent/Fluctuating
11	inwatera.aft	hyc	8	Perennial/Permanent
12	symbol.rat	fon	1	Machine Default
13	symbol.rat	sty	1	Kern
14	symbol.rat	sty	2	Proportional
15	symbol.rat	sty	3	Constant
16	symbol.rat	col	1	Black
17	symbol.rat	col	4	Blue
18	symbol.rat	col	9	Red-Brown
19	symbol.rat	col	12	Magenta

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hydro	Dam/Weir	BI020	-	x		x		
hydro	Lock	BI030	-	x				
hydro	Sluice Gate	BI040	-	x				
hydro	Inland Water	BH000	EXS			x		
			HYC				x	
			LOC			x		
			NAM			x	x	
hydro	River/Stream	BH140	HYC			x		
			NAM			x		
hydro	Named Location	ZD040	-					x
hydro	Text Description	ZD045	-					x
ind	Mine/Quarry	AA010	-	x				
			MIN				x	
ind	Well	AA050	TXT	x				
ind	Oil/Gas Field	AA052	MIN				x	
			TXT	x				
ind	Processing							
	Plant/Treatment Plant	AC000	TXT	x				
ind	Oil/Gas Facilities	AC040	TXT	x				
ind	Tower (Non-							
	Communication)	AL240	TXT	x				
ind	Depot (Storage)	AM010	TXT	x				
ind	Tank	AM070	TXT	x				
ind	Water Tower	AM080	TXT	x				
ind	Fish Hatchery/Fish							
	Farm/Marine Farm	BH050	-				x	
ind	Salt Evaporator	BH155	MIN				x	
			TXT	x				
ind	Named Location	ZD040	-					x
ind	Text Description	ZD045	-					x
phys	Ice Cliff	BJ040	-			x		
phys	Ice Shelf	BJ065	NA2				x	
phys	Pack Ice	BJ070	NA2				x	
phys	Polar Ice	BJ080	NA2				x	
phys	Snow Field/Ice Field	BJ100	-				x	
phys	Ground Surface Element	DA010	SMC				x	
			SWC				x	
phys	Bluff/Cliff/Escarpment	DB010	-			x		
phys	Depression	DB080	-			x		
phys	Embankment/Fill	DB090	-			x		
phys	Fault	DB110	-			x		
phys	Rock Strata/Rock							
	Formation	DB160	-			x		
phys	Named Location	ZD040	-					x
phys	Text Description	ZD045	-					x
pop	Camp	AI030	TXT	x				
pop	Athletic Field	AK040	-				x	
pop	Race Track	AK130	-				x	
pop	Stadium/Amphitheater	AK160	TXT	x				
pop	Building	AL015	TXT	x				
pop	Built-Up Area	AL020	NAM	x			x	

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pop	Cairn	AL025	TXT	x				
pop	Settlement	AL105	TXT	x				
pop	Monument	AL130	TXT	x				
pop	Native Settlement	AL135	NAM	x			x	
pop	Ruins	AL200	TXT	x				
pop	Wall	AL260	TXT	x				
pop	Lighthouse	BC050	TXT	x				
pop	Military Base	SU001	TXT	x			x	
pop	Named Location	ZD040	-					x
pop	Text Description	ZD045	-					x
trans	Snow Shed/Rock Shed	AL210	TUC		x	x		
trans	Railroad	AN010	EXS			x		
			FCO			x		
			RRC			x		
trans	Railroad Yard/ Marshalling Yard	AN060	-	x				
trans	Road	AP030	ACC			x		
			EXS			x		
			MED			x		
			RTT			x		
trans	Trail	AP050	EXS			x		
trans	Aerial Cableway Lines/ Ski Lift Lines	AQ010	-			x		
trans	Bridge/Overpass/Viaduct	AQ040	TUC		x	x		
trans	Causeway	AQ064	TUC		x	x		
trans	Ferry Crossing	AQ070	TUC		x	x		
trans	Tunnel	AQ130	TUC		x	x		
trans	Pier/Wharf/Quay	BB190	-			x		
trans	Ford	BH070	TUC		x	x		
trans	Airport/Airfield	GB005	IKO	x				
			NAM	x				
			USE	x				
			ZV3	x				
trans	Named Location	ZD040	-					x
trans	Text Description	ZD045	-					x
util	Power Plant	AD010	TXT	x				
util	Substation/Transformer Yard	AD030	TXT	x				
util	Pipeline/Pipe	AQ113	LOC			x		
util	Pumping Station	AQ116	TXT	x				
util	Power Transmission Line	AT030	-			x		
util	Communication Building	AT050	TXT	x				
util	Telephone Line/Telegraph Line	AT060	-			x		
util	Communication Tower	AT080	TXT	x				
util	Named Location	ZD040	-					x
util	Text Description	ZD045	-					x
veg	Hummock	BH077	-				x	
veg	Bog	BH015	VEG				x	
veg	Marsh/Swamp	BH095	-				x	
veg	Rice Field	BH135	FTC				x	

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veg	Tundra	BJ110	-				x	
veg	Cropland	EA010	FTC				x	
			VEG				x	
veg	Hedgerow	EA020	-			x		
veg	Nursery	EA030	-				x	
veg	Orchard/Plantation	EA040	PRO				x	
veg	Vineyards	EA050	-				x	
veg	Grassland	EB010	-				x	
veg	Scrub/Brush	EB020	DMB				x	
veg	Bamboo/Cane	EC010	-				x	
veg	Oasis	EC020					x	
veg	Trees	EC030					x	
veg	Cleared Way/Cut Line/Firebreak	EC040	WID			x		
veg	Void Collection Area	ZD020	VCA				x	
veg	Named Location	ZD040	-					x
veg	Text Description	ZD045	-					x

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