



PHYSICAL-BIOTIC SUSCEPTIBILITY TO THE EFFECT OF
52 HUMAN INTERVENTIONS *
and
equivalent environmental licensing instrument

LITTORAL CONFIG. #	LOW Environmental viability	MEDIUM Simplified EIS	HIGH Robust EIS	VERY HIGH Alternative Analysis
01 - NBX - MBX	12EDF 47CFP 13MIL 23NAV 26GTP 32GST 33UAG 36TPC 42VFE	02UGM 17EDM 43CAP 03IDO 18PUC 44CAP 04LUC 22INA 46BSP 07IFC 29TYS 54SME 08AHB 30TSF 52DSP 10AHP 35GRA 55WTP 11AHU 38EEH 15MUP 41CAP	16AHM 19PUG 20SPS 34GMR 49CYP 50MUR 53SWD	14EMP 24MMN 37DM 39MDS 48ROP 51BNS
04 - BCT - MBX	12EDF 52DSP 13MIL 55WTP 23NAV 26GTP 31MAN 32GST 36TPC 47CFP	02UGM 17EDM 38EEH 03IDO 18PUC 41CAP 04LUC 22INA 42VFE 07IFC 29TYS 43CAP 08AHB 30TSF 44CAP 10AHP 33UAG 46BSP 11AHU 34GMR 54SME 15MUP 35GRA	05MOC 09AHA 16AHM 19PUG 20SPS 49CYP 50MUR 53SWD	14EMP 24MMN 37DM 39MDS 48ROP 51BNS
06 - BVL - MBX	12EDF 42VFE 13MIL 47CFP 23NAV 52DSP 26GTP 55WTP 30TSF 32GST 33UAG 36TPC	02UGM 16AHM 41CAP 03IDO 17EDM 43CAP 04LUC 18PUC 44CAP 07IFC 22INA 46BSP 08AHB 29TYS 54SME 10AHP 34GMR 11AHU 35GRA 15MUP 38EEH	05MOC 09AHA 19PUG 20SPS 24MMN 48ROP 49CYP 50MUR 53SWD	14EMP 37DM 39MDS 40RDS
08 - BVF - MBX	12EDF 42VFE 13MIL 47CFP 23NAV 52DSP 26GTP 55WTP 30TSF 32GST 33UAG 36TPC	02UGM 16AHM 38EEH 03IDO 17EDM 41CAP 04LUC 18PUC 43CAP 07IFC 20SPS 44CAP 08AHB 22INA 46BSP 10AHP 29TYS 54SME 11AHU 34GMR 15MUP 35GRA	05MOC 09AHA 19PUG 20SPS 24MMN 48ROP 49CYP 50MUR 53SWD	14EMP 37DM 39MDS 40RDS 51BNS
10 - CTN - MBX	12EDF 42VFE 13MIL 43CAP 23NAV 52DSP 26GTP 55WTP 32GST 33UAG 35GRA 36TPC	02UGM 16AHM 38EEH 03IDO 17EDM 41CAP 04LUC 18PUC 44CAP 07IFC 20SPS 46BSP 08AHB 22INA 54SME 10AHP 29TYS 11AHU 30TSF 15MUP 34GMR	05MOC 09AHA 14EMP 51BNS 53SWD 37DM 39MDS 40RDS	14EMP 37DM 39MDS 40RDS
11 - RLM - MBX	12EDF 47CFP 13MIL 52DSP 23NAV 55WTP 26GTP 32GST 33UAG 36TPC 42VFE	02UGM 16AHM 38EEH 03IDO 17EDM 41CAP 04LUC 18PUC 43CAP 07IFC 22INA 44CAP 08AHB 29TYS 46BSP 10AHP 30TSF 54SME 11AHU 34GMR 15MUP 35GRA	05MOC 09AHA 19PUG 20SPS 24MMN 48ROP 49CYP 50MUR	14EMP 37DM 39MDS 40RDS
13 - BBD - SBX	12EDF 13MIL 23NAV 26GTP 32GST 33UAG 36TPC 42VFE 47CFP	02UGM 17EDM 41CAP 03IDO 18PUC 43CAP 04LUC 22INA 44CAP 07IFC 29TYS 46BSP 08AHB 30TSF 52DSP 10AHP 32GST 54SME 11AHU 33UAG 55WTP 15MUP 35GRA	05MOC 09AHA 19PUG 20SPS 24MMN 48ROP 49CYP 50MUR	14EMP 24MMN 37DM 39MDS 48ROP 51BNS
14 - BVD - SBX	12EDF 13MIL 23NAV 26GTP 32GST 33UAG 36TPC 42VFE 47CFP	02UGM 22INA 44CAP 03IDO 29TYS 46BSP 04LUC 30TSF 52DSP 08AHB 32GST 54SME 10AHP 33UAG 55WTP 11AHU 35GRA 15MUP 41CAP 18PUC 43CAP	05MOC 07IFC 38EEH 49CYP 50MUR 53SWD	14EMP 24MMN 37DM 39MDS 40RDS 48ROP 51BNS

LITTORAL CONFIG. #	LOW Environmental viability	MEDIUM Simplified EIS	HIGH Robust EIS	VERY HIGH Alternative Analysis
15 - BCT - SBX	12EDF 13MIL 23NAV 26GTP 32GST 36TPC 42VFE 47CFP	02UGM 29TYS 44CAP 03IDO 30TSF 46BSP 08AHB 33UAG 52DSP 10AHP 34GMR 54SME 11AHU 35GRA 55WTP 15MUP 38EEH 18PUC 41CAP 22INA 43CAP	04LUC 48ROP 05MOC 49CYP 07IFC 53SWD 09AHA 16AHM 17EDM 19PUG 20SPS	14EMP 24MMN 37DM 39MDS 40RDS 50MUR 51BNS
19 - BVF - SBX	12EDF 13MIL 23NAV 26GTP 33UAG 36TPC 42VFE 47CFP	02UGM 17EDM 41CAP 03IDO 18PUC 43CAP 04LUC 22INA 44CAP 07IFC 29TYS 46BSP 08AHB 30TSF 52DSP 10AHP 32GST 54SME 11AHU 35GRA 55WTP 15MUP 38EEH	05MOC 09AHA 16AHM 19PUG 20SPS 34GMR 49CYP 53SWD	14EMP 24MMN 37DM 39MDS 40RDS 48ROP 50MUR 51BNS
22 - RLM - SBX	12EDF 55WTP 13MIL 23NAV 26GTP 33UAG 36TPC 42VFE 47CFP	02UGM 15MUP 43CAP 03IDO 18PUC 44CAP 04LUC 22INA 46BSP 07IFC 29TYS 52DSP 08AHB 30TSF 54SME 10AHP 32GST 55WTP 11AHU 35GRA 12EDF 41CAP	05MOC 09AHA 16AHM 19PUG 20SPS 34GMR 49CYP 53SWD	14EMP 24MMN 37DM 39MDS 40RDS 48ROP 50MUR 51BNS
74 - BVF - SOB	12EDF 55WTP 13MIL 23NAV 26GTP 36TPC 42VFE 47CFP 52DSP	02UGM 17EDM 35GRA 03IDO 18PUC 38EEH 04LUC 22INA 41CAP 07IFC 29TYS 43CAP 08AHB 30TSF 44CAP 10AHP 32GST 46BSP 11AHU 33UAG 54SME 15MUP 34GMR	05MOC 09AHA 19PUG 20SPS 24MMN 48ROP 49CYP 50MUR	14EMP 24MMN 37DM 39MDS 40RDS 48ROP 51BNS

* For the code meaning of human interventions, see the appendix V-C
For the code meaning of littoral configurations, see Map 01

NATURAL SUSCEPTIBILITY TO THE EFFECT OF COASTAL INTERVENTIONS FOR THE ENVIRONMENTAL LICENSING PROCEDURE

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MAP 6

SECTOR PUERTO VELERO

0 0,75 1,5 3 4,5 6 Km

Scale 1:100.000

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Caribbean Sea

Pacific Ocean

ATLÁNTICO

BOLÍVAR

SUCRE

MAGDALENA

Environmental Coastal Unit "Magdalena River - Canal del Dique complex - Ciénaga Grande de Santa Marta lagoon system" (ECU Mag-Dique)

DATUM: Magna Sirgas Projected Magna Colombia Bogota

LEGEND

Rivers

Lagoons/Swamps

Populated centers

Administrative limits

~ -30 m

Littoral Configurations

Emerged Subunit

Submerged Subunit

Sources

- National Basic Cartography Scale 1: 100.000, 2012. IGAC
- Diagnosis of erosion in the coastal zone of the Colombian Caribbean, Geomorphology and sedimentary facies Scale 1:100.000, 2007. INVEMAR
- Continental, coastal and marine ecosystems of Colombia. DEAM, IGAC, IAvH, INVEMAR, SINCHI. 2007
- Guidelines of the management plan for the environmental coastal unit Mag-Dique Scale 1:25.000, 2013. Agreement 221 CARDIQUE-INVEMAR
- Geomorphologic atlas of the Colombian Caribbean littoral Scale 1:50.000, 2010. DIMAR
- Geomorphologic map ANDEN CARIBE. Project GEO09-02 Scale 1:25.000, 2010. INGEOMINAS
- Nautical Chart COL 407 Scale 1:100.000, 1999. CIOH
- Nautical Charts COL 408 Scale 1:100.000, 1999. CIOH

Note: Any inconsistency in the cartographic overlay corresponds to scale differences of the sources