

CARTOGRAPHIC SYMBOLS

- Post Survey Route with kilometre post and reverse kilometre post
- Beach Mark
- Survey Route
- Coastline (from Admiralty Charts)
- Telecommunications cable position, in Service/Out of Service/Planned (As found in magenta)
- Pipeline position, in Service/Out of Service/Planned (As found in magenta)
- Power cable position, in Service/Out of Service (As found in magenta)
- Chart Matchline
- Territorial Sea / EEZ limit

BATHYMETRY

- Bathymetric contours in metres. Contour interval may be reduced to aid in clarity. All bathymetry reduced to Lowest Astronomical Tide (LAT)
- Downslope gradient in degrees (°) as measured over the shortest significant distance
- Approximate limit of swath bathymetry coverage (shown only in areas of flat seabed)

SEABED FEATURES AND SHALLOW GEOLOGY

- Isolated sonar contact with reference number (length x width x height in metres where measurable; n/m = no measurable height)
- Gas seepage area with predominant sediment classification
- Linear sonar contact, dashed where partially buried
- Unidentified magnetic anomaly with reference number and amplitude
- Identified magnetic anomaly with reference number and amplitude
- Seabed sample location with reference number: OS (Dred Core), DS (Diver Sample), DP (Diver Probe), SP (Beach Probed)
- Min/CPT (CP), Location with reference number
- Small outcrop of rock with height in metres if discernible
- Seabed DEPRESSION or POCKMARK with diameter (d) and depth (D) in metres, where discernible
- Orientation of SANDWAVE crest (with wavelength and height in metres)
- Orientation of MEGARIPPLE crest (with wavelength and height in metres)
- Orientation of sediment ribbon
- Fault with depth below seafloor (hachures on down side)
- Isopach Contours shown at 1m interval with labels every 1m
- Located wreck with reference no. (length x width x height in metres where measurable)
- Anchorage Area / Fishing Area (Admiralty chart position)
- Anchorage / Fishing Prohibited (Admiralty chart position)

CHART COMMENT:

BRU ST DE CP010 Penetration: 3.0m Recovery: 3.0m
 BRU ST DE CP011A Penetration: 1.3m Recovery: 1.3m
 BRU ST DE CP011B Penetration: 3.1m Recovery: 3.1m
 BRU ST DE CP011C Penetration: 3.0m Recovery: 3.0m
 BRU ST DE CP012 Penetration: 1.0m Recovery: 1.0m

GENERAL NOTES:

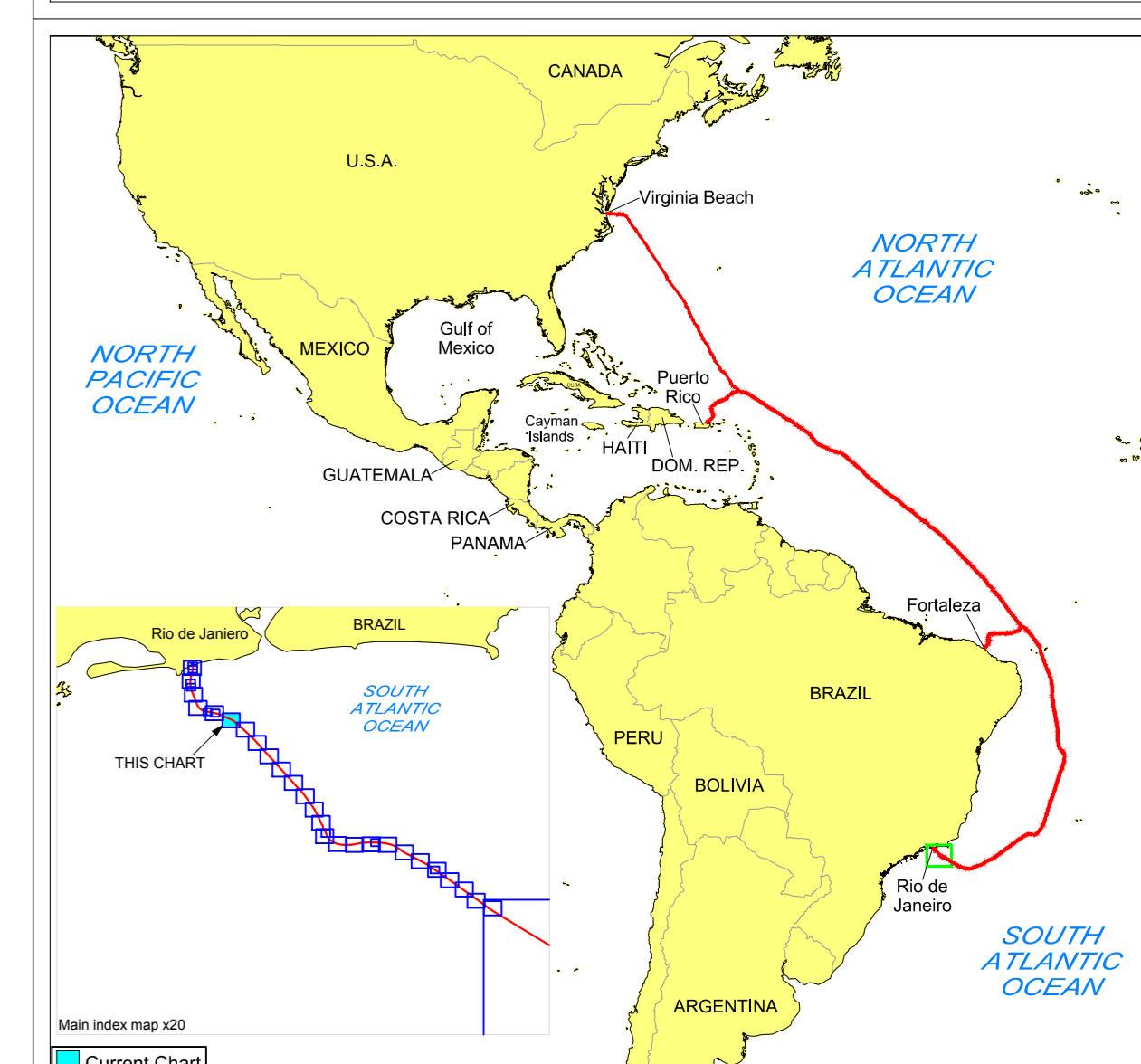
SURVEY VESSEL: M.V. Ocean Endeavour / M.V. Capito Rio III
Surface positioning system: Furgo Star 1HP / GNSS / Applan POSMV WaveMaster, Verpos LDS
Underwater positioning system: Sontar/Star Ranger 1 USBL / Reson Seabat T-20
Bathymetry: Kongsberg EM1202 / Kongsberg EM60 Combi
Morphology and stratigraphy: Edgetech 4200-FS / Kongsberg Geoacoustics / SEB Seaglobe SSS/SBP / Geometrics S12 / Marine Magnetics Seagay
Magnetometer survey: Kullenberg Proton Core, Neptune 3000 CPT / Van Veen Grab Sampler

Target burial depth: 1.0m below seabed

Descriptive Terms and Definitions:
 The criteria used for interpretation and descriptions are presented in the Survey Results

Multibeam Processing Parameters: Depths in metres, reduced to LAT
 Predictions used from tide stations: Rio de Janeiro, Brazil

GEODETIC PARAMETERS:
 Projection: MERCATOR
 Longitude of Origin: 53°W
 Standard Parallel: 7°N
 Semi-Major Axis (a) (metres): 6378137.000
 Reciprocal Flattening (1/f): 298.257223563
 Scale Factor: 1
 Datum: WGS84
 False Easting: 3 000 000
 False Northing: 5 000 000



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Survey Date: MAY to AUGUST 2016

Scale: NATURAL SCALE 1 : 10,000 at 7°N
 (At Mean Latitude of Chart)
 TRUE SCALE 1 : 9258.43 km

Purchaser: TELXIUS
 Contractor: Alcatel-Lucent
 Surveyor: Gardline

Project Name: BRUSA CABLE ROUTE SURVEY
 Document Title: SEGMENT 7 NORTH-UP CHART CHART NO. 064 OF 071 (KP 3615.594 - KP 3626.075)

01	16.06.2016	JSRM	PB	CB
02	24.06.2016	JSRM	PB	CB

ROUTE BASED UPON: BRUSA PSR02
 File Name: BRUSA.ST.NU064

REVISION 01