

CARTOGRAPHIC SYMBOLS

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|--|--|--|--|
| | Post Survey Route with kilometre post and reverse kilometre post | | Telecommunications cable position, in Service/Out of Service/Planned (As found in magenta) |
| | Beach Mark/Alter Course | | Pipeline position, in Service/Out of Service/Planned (As found in magenta) |
| | Survey Route | | Power cable position, in Service/Out of Service (As found in magenta) |
| | Coastline (from Admiralty Charts) | | 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) | | Approximate limit of swath bathymetry coverage (shown only in areas of fair seabed) |
| | Downslope gradient in degrees (°) as measured over the shortest significant distance | | |

SEABED FEATURES AND SHALLOW GEOLOGY

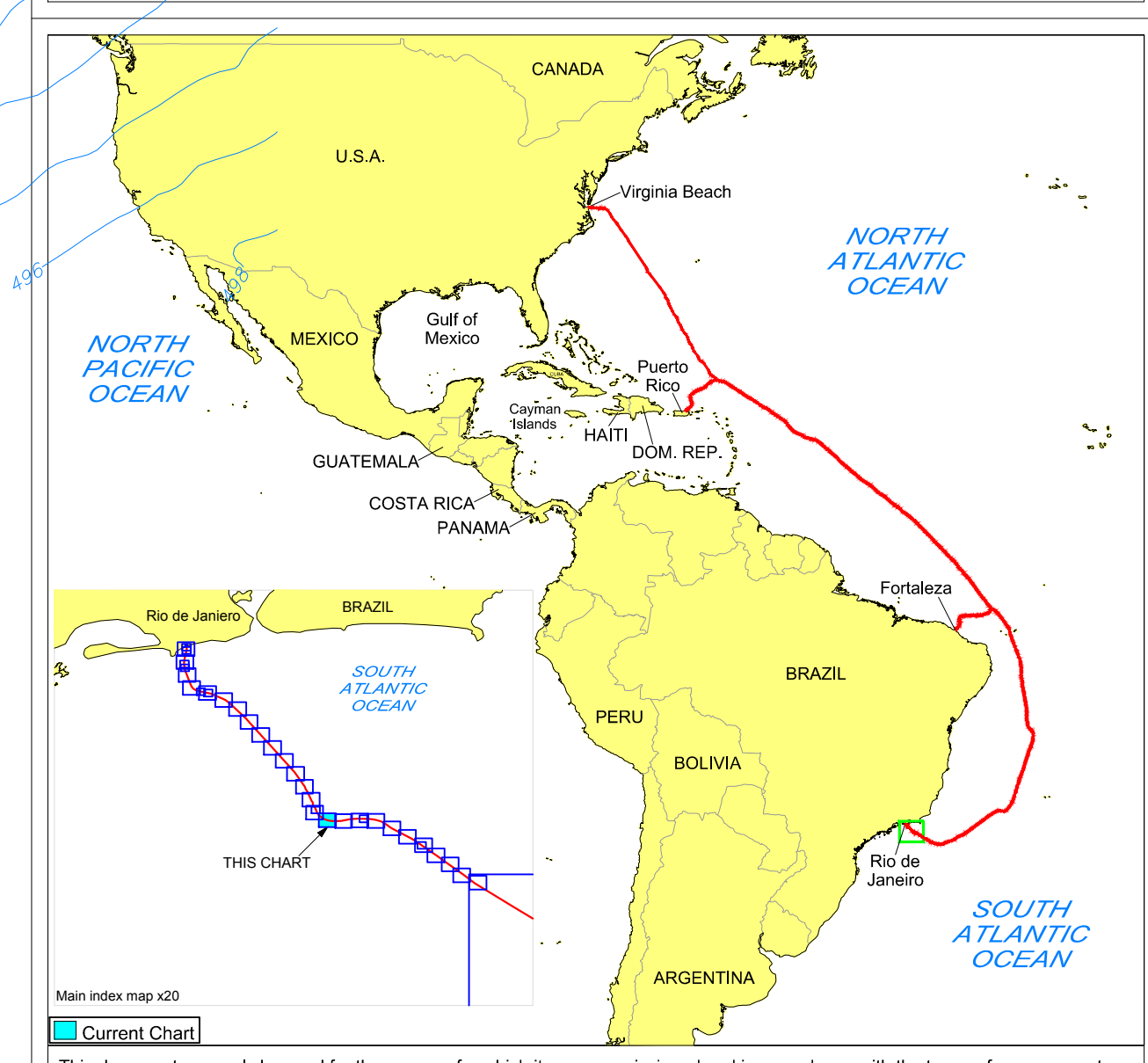
| | | | |
|--|---|--|--|
| | Coral | | Isolated sonar contact with reference number (length x width x height in metres where measurable; n/m = no measurable height) |
| | Gas seepage area with predominant sediment classification | | Linear sonar contact, dashed where partially buried |
| | Boulder with predominant sediment classification | | Unidentified magnetic anomaly with reference number and amplitude |
| | Fine sediment (predominantly CLAY/SILT) | | Cable/Pipeline position, as determined by magnetometer, with reference number and amplitude |
| | Coarse sediment (SAND and GRAVEL) | | Seabed sample location with reference number: GC (Piston Core), GS (Grab Sample), DS (Diver Sample), DP (Diver Probe), SP (Beach Probed) |
| | Very coarse sediment (COBBLES and BOULDERS) | | MiniCPT (CPT) Location with reference number |
| | Submerging ROCK with predominant sediment classification (sediment thickness = target burial depth) | | Small outcrop of rock with height in metres if discernible |
| | ROCK outcrop | | Seabed DEPRESSION or ROCKMARK with diameter (d) and depth (D) in metres, where discernible |
| | HARDGROUND (Very dense/consolidated sediment) | | Orientation of SANDWAVE crest (with wavelength and height in metres) |
| | Sediment or feature boundary | | Orientation of MEGARIPPLE crest (with wavelength and height in metres) |
| | Inferred Sediment or Feature Boundary | | Orientation of sediment ribbon |
| | Approximate limit of side scan sonar coverage and survey swath | | Fault with depth below seafloor (fractures on down side) |
| | Seabed scar (trail or anchor) | | Isobath Contours shown at 1m interval with labels every 1m |
| | Charted or reported wreck | | Located wreck with reference no. (length x width x height in metres where measurable) |
| | Dumping ground database position | | Anchorage Area / Fishing Area (Admiralty chart position) |
| | Well / Platform | | Anchorage / Fishing Prohibited (Admiralty chart position) |
| | Oil Concession Block | | |

CHART COMMENT:

GENERAL NOTES:

SURVEY VESSEL: M.V. Ocean Endeavour
Surface positioning system: Furgo Star 1HP USNS
Underwater positioning system: Sonarteck Ranger 1 USBL
Bathymetry: Kongsberg EM100, Kongsberg EM300, Kongsberg EM700
Morphology and stratigraphy: Edgetech 4200-FS, Kongsberg Chirp and pager, SEB Seaprobe SSS/SBP, Geometrics S82
Magnetometer survey: Kullenberg Proton Core, Neptune 3000 CPT

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**

Scale bar: 0.0, 0.2, 0.4, 0.6, 0.8, 1.0 (in km)

Purchaser: **TELXIUS** (Enabling Connectivity)

Contractor: **Alcatel-Lucent**

Surveyor: **Gardline**

Project Name: **BRUSA CABLE ROUTE SURVEY**

Document Title: **SEGMENT 7 NORTH-UP CHART CHART NO. 054 OF 071 (KP 3532.397 - KP 3542.124)**

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|-----|------------|-------------|------------|-------------|
| 01 | 16.09.2016 | JSRM | PB | CB |
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| Rev | Date | Prepared by | Checked by | Approved by |

ROUTE BASED UPON: BRUSA PSR02 File Name: BRUSA.S7.NU054

REVISION 01