

**CARTOGRAPHIC SYMBOLS**

- Post Survey Route with kilometre post and reverse kilometre post
- Beach Markhole
- Alter Course
- 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)
- 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**

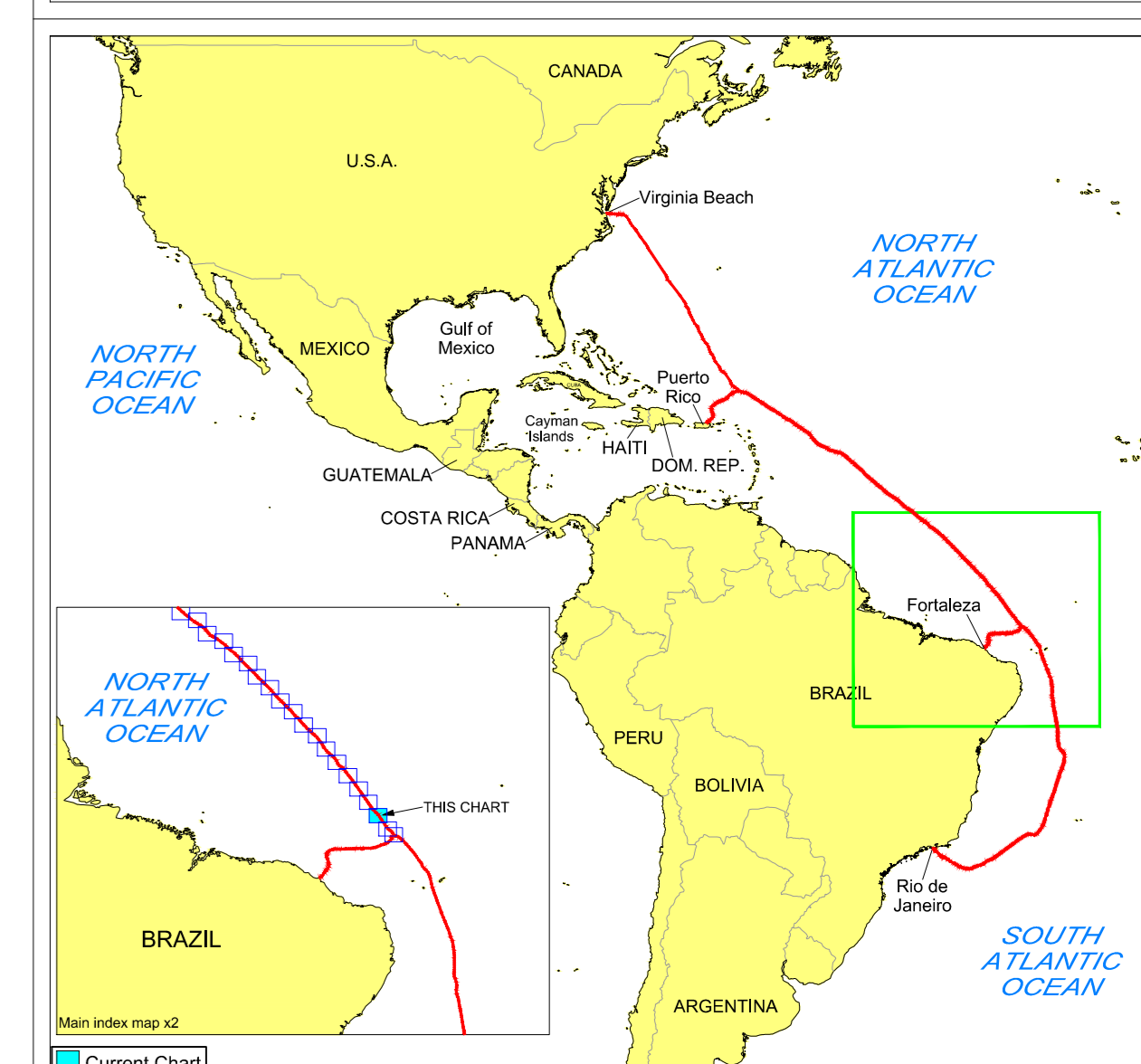
cor	Coral	SC01	Isolated sonar contact with reference number (length x width x height in metres where measurable; n/m = no measurable height)
fa/cv/s	Gas seepage area with predominant sediment classification	41/8/3	Linear sonar contact, dished where partially buried
fb/cv/s	Boulders with predominant sediment classification	MC00	Unidentified magnetic anomaly with reference number and amplitude
fs	Fine sediment (predominantly CLAY/SILT)	MC02	Cable/Pipeline position, as determined by magnetometer, with reference number and amplitude
gs	Coarse sediment (SAND and GRAVEL)	OC	OC (Piper Core)
vc	Very coarse sediment (COBBLES and BOULDERS)	OS	OS (Grab Sample) DS (Diver Sample) DP (Diver Probing) SP (Beach Probing)
fs/cv/s	Subsiding ROCK with predominant sediment classification (sediment thickness > target burial depth)	CP01	MiniCPT (CP) Location with reference number
r	ROCK outcrop	ES	Small outcrop of rock with height in metres if discernible
ha	HARDGROUND (Very dense/silicified/consolidated sediment)	SD	Subsided DEPRESSION or POCOMARK with diameter (d) and depth (D) in metres, where discernible
- - - - -	Sediment or feature boundary	1/5/2	Orientation of SANDWAVE crest (with wavelength and height in metres)
- - - - -	Inferred Sediment or Feature Boundary	4/7/8	Orientation of MEGARIPPLE crest (with wavelength and height in metres)
- - - - -	Approximate limit of side scan sonar coverage and survey swath	2/2	Orientation of sediment ribbon
- - - - -	Seabed scar (trawl or anchor)	2/5	Fault with depth below seafloor (hachures on down side)
⊙	Charted or reported wreck	5/5	Isobath Contours shown at 1m interval with labels every 1m
⊙	Dumping ground database position	5/5	Located wreck with reference no. (length x width x height in metres where measurable)
⊙	Well / Platform	5/5	Anchor Area / Fishing Area (Admiralty chart position)
⊙	Oil Concession Block	5/5	Anchor Area / Fishing Prohibited (Admiralty chart position)

**CHART COMMENT:**

**GENERAL NOTES:**  
 SURVEY VESSEL: M.V. Sea Surveyor  
 Surface positioning system: CHIR DGNSS  
 Bathymetry: Kongsberg EM710, Kongsberg EM722, Kongsberg S400 Combi

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

**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: APRIL to AUGUST 2016  
 Scale: NATURAL SCALE 1 : 100,000 at 7°N  
 (At Mid-Latitude of Chart)  
 TITLE SCALE 1 : 100740.00 km

Purchase: **TELXIUS**  
 Contractor: **Alcatel-Lucent**  
 Surveyor: **Gardline**

Project Name: **BRUSA CABLE ROUTE SURVEY**  
 Document Title: **SEGMENT 5 NORTH-UP CHART CHART NO. 043 OF 044 ( KP 3842.430 - KP 3943.565 )**

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ROUTE BASED UPON: BRUSA PSR04 File Name: BRUSA.S5.NU043

**REVISION 01**