

### CARTOGRAPHIC SYMBOLS

	Post Survey Route with kilometre post and reverse kilometre post		Telecommunications cable position, in Service/Out of Service/Planned (As found in magenta)
	Beach Markings		Pipeline position, in Service/Out of Service/Planned (As found in magenta)
	Alter Course		Power cable position, in Service/Out of Service (As found in magenta)
	Survey Route		Chart Matchline
	Coastline (from Admiralty Charts)		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 weather)
	Downslope gradient in degrees (°) as measured over the shortest significant distance		

### SEABED FEATURES AND SHALLOW GEOLOGY

	Coral		Unidentified magnetic anomaly with reference number and amplitude
	Gas seepage area with predominant sediment classification		Cable/Pipeline position, as determined by magnetometer, with reference number and amplitude
	Builders with predominant sediment classification		Seabed sample location with reference number, GC (Pinger Core) GS (Grab Sample) DS (Diver Sample) DP (Diver Probe) SP (Beach Probed)
	Fine sediment (predominantly CLAY/SILT)		MCP (CP) Location with reference number
	Coarse sediment (SAND and GRAVEL)		Small outcrop of rock with height in metres if discernible
	Very coarse sediment (COBBLES and BOULDERS)		Seabed DEPRESSION or POCKMARK with diameter (d) and depth (D) in metres, where discernible
	Submerged ROCK with predominant sediment classification (sediment thickness = target burial depth)		Orientation of SANDWAVE crest (with wavelength and height in metres)
	ROCK outcrop		Orientation of MEGARIPPLE crest (with wavelength and height in metres)
	HARDGROUND (Very dense/solid/consolidated sediment)		Orientation of sediment ribbon
	Sediment or feature boundary		Fault with depth below seafloor (fractures on down side)
	Inferred Sediment or Feature Boundary		Charted or reported wreck
	Approximate limit of side scan sonar coverage and survey swath		Dumping ground database position
	Seabed scar (trail or anchor)		Wail / Platform
	Charted or reported wreck		Oil Concession Block

**CHART COMMENT:**

**GENERAL NOTES:**

SURVEY VESSEL: M.V. Ocean Endeavour  
 SURFACE POSITIONING SYSTEM: FURU Starbuck HP 1000SS  
 BATHYMETRY: Seamount Ranger 1 USB, Kongsberg EM1002, Kongsberg EM600 Combi  
 MORPHOLOGY AND STRATIGRAPHY: Edgetech 4200-FS, Kongsberg Chirp and pager, SES Seaprobe SSS/SBP  
 MAGNETOMETER SURVEY: Geometrics S82, Kullenberg Proton Core, Neulane 3000 CPT

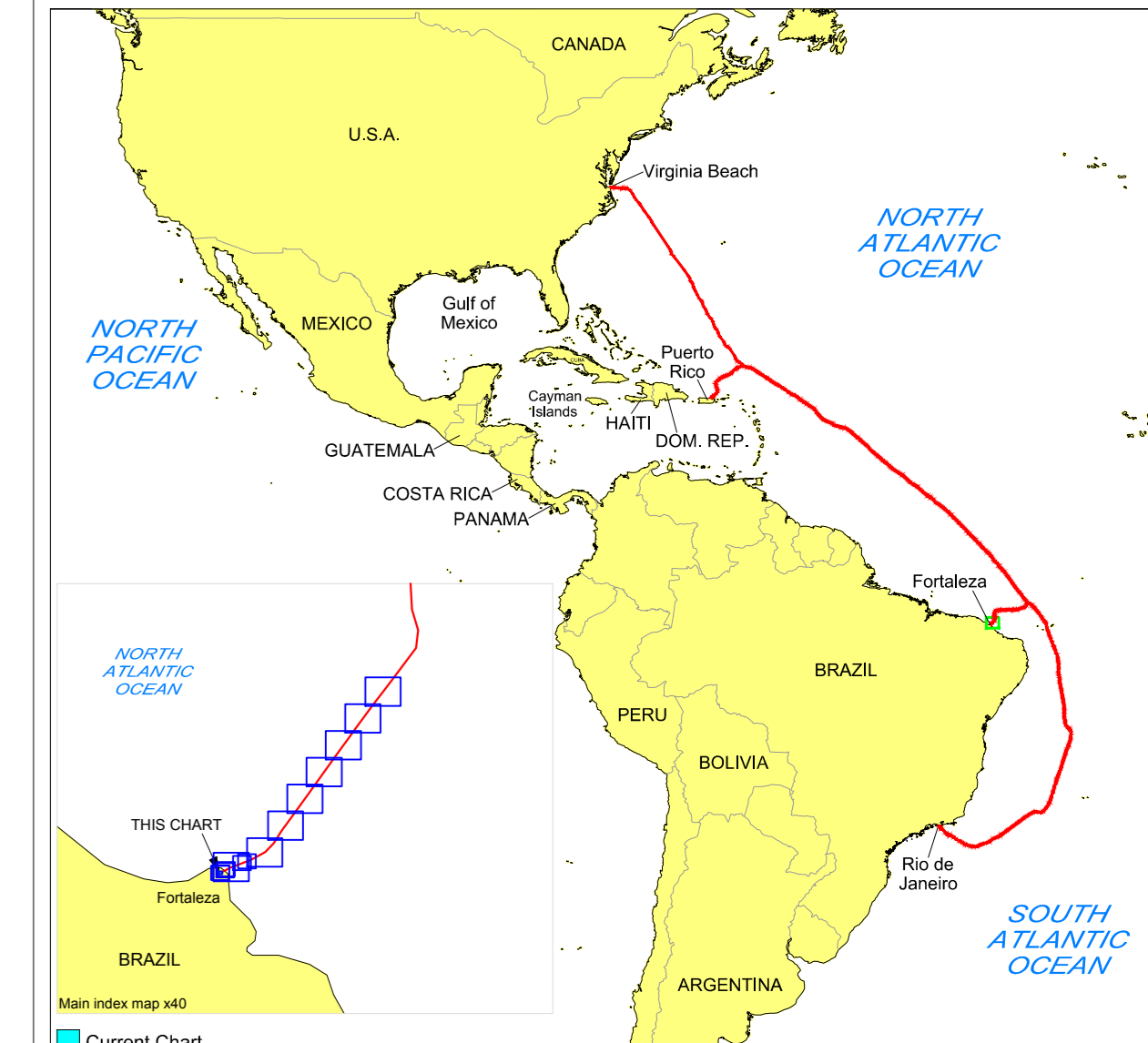
M.V. Exodos  
 Apolonia POS/Vi Watermaster, Verpos LDS  
 Reson Seabat T-20

Edgetech 4200 MP, Geometrics, Marine Magnetics Seaprey, Van Ven Grab Sampler

**GOODETIC 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: SEPTEMBER 2016

Scale: NATURAL SCALE 1 : 1,000 at 7°N

Scale bar: 0 20 40 60 80 100 m

Purchaser: TELSIUS

Contractor: Alcatel-Lucent

Surveyor: Gardline

Project Name: BRUSA CABLE ROUTE SURVEY

Document Title: SEGMENT 6 NORTH-UP CHART CHART NO. 001 OF 017 (KP 0.000 - KP 0.718)

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REVISION 01.1

ROUTE BASED UPON: BRUSA S6 PER6 File Name: BRUSA.S6.N001