

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 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 flat seabed)
	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
	Boulders with predominant sediment classification		Seabed sample location with reference number
	Fine sediment (predominantly CLAY/SILT)		OS (Diver Core)
	Coarse sediment (SAND and GRAVEL)		DS (Diver Sample)
	Very coarse sediment (COBBLES and BOULDERS)		DP (Diver Probe)
	Subsiding ROCK with predominant sediment classification (sediment thickness = target burial depth)		Mn/CPT (CP) Location with reference number
	ROCK outcrop		Small outcrop of rock with height in metres if discernible
	HARDGROUND (Very dense/consolidated sediment)		Seabed DEPRESSION or ROCKMARK with diameter (d) and depth (D) in metres, where discernible
	Sediment or Feature Boundary		Orientation of SANDWAVE crest (with wavelength and height in metres)
	Approximate limit of side scan sonar coverage and survey swath		Orientation of MEGARIPPLE crest (with wavelength and height in metres)
	Seabed scar (trawl or anchor)		Orientation of sediment ribbon
	Charted or reported wreck		Fault with depth below seafloor (fractures on down side)
	Dumping ground database position		Isobath Contours shown at 1m interval with labels every 1m
	Well / Platform		Located wreck with reference no. (length x width x height in metres where measurable)
	Oil Concession Block		Anchorage Area / Fishing Area (Admiralty chart position)
			Anchorage / Fishing Prohibited (Admiralty chart position)

CHART COMMENT:

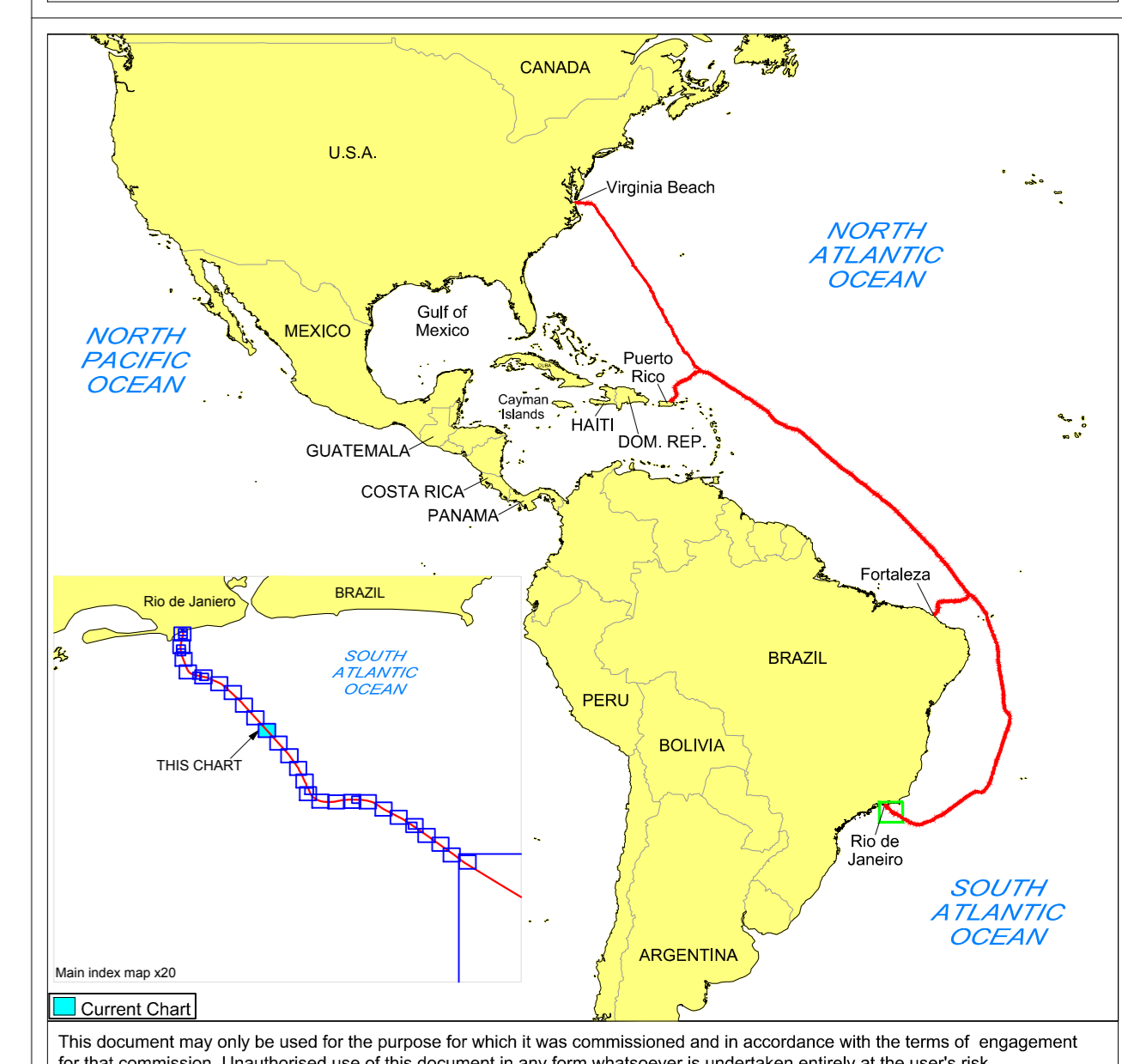
GENERAL NOTES:

SURVEY VESSEL: M.V. Ocean Endeavour / M.V. Capito Eng III
Surface positioning system: Furgo Star 1HP USNS / Applan POSMV WaveMaster, Verpos LDS
Underwater positioning system: Sontar/Star 1 USBL / Kongsberg EM120, Reson Seabat T-20
Bathymetry: Kongsberg EM120, Kongsberg EM60 Combi
Morphology and stratigraphy: Edgetech 4200 FS, Edgetech 4200 MP, Kongsberg Chirp and prap, Kongsberg Geosonics
SEB Seaprobe SSS/SBP, Chirp/Star, Chirp/Star
Geomagnetic: Marine Magnetics Seagay
Geotechnical: Kullenberg Piston Core, Van Veen Grab Sampler, Neptune 3000 CPT

Target burial depth: 1.0m below seabed

Descriptive Terms and Definitions:
 The criteria used for interpretation and descriptions are presented in the Survey Results
Multi-beam Processing Parameters: Depths in metres, reduced to LAT
Predictions used from tide stations: Rio de Janeiro, Brazil

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



Scale: NATURAL SCALE 1 : 10,000 at 7°N
 (At Mean Low Water of Chart)
 TITLE SCALE 1 : 10042.71 km

Purchaser: TELXIUS
Contractor: Alcatel-Lucent
Surveyor: Gardline

Project Name: BRUSA CABLE ROUTE SURVEY
Document Title: SEGMENT 7 NORTH-UP CHART CHART NO. 060 OF 071 (KP 3580.287 - KP 3590.024)

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REVISION 01

ROUTE BASED UPON: BRUSA PSR02 File Name: BRUSA.S7.NU050