

## GLOSS Sea Level Data Archeology Project

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### GLOSS Data Archeology - Preliminary Questionnaire Return and Status

<u>ITALY</u>	
<b>1. PRIMARY INFORMATION</b>	
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<b>Location of the historic measurements</b> (station name, country name, if possible latitude/longitude) If possible a local map should be provided showing the location of the measurements within a port or harbour (we realise that sometimes the exact location may no longer be known).	Trieste, Italy 45° 38'50.5"N/13° 45'30.5"E
<b>Start and end dates of the measurements</b>	1859: first measurements; 1862-89: irregular measurements; 1890-1904: annual means only. 1905-14: hourly data on original tables (except 1912, monthly means only), no charts; 1915-16: interruption; 1917-Dec. 1924 and Jun. 1926-present: charts.
<b>Are existing (i.e. probably later) data already available in computer form from this site? If so, for what dates?</b>	1905-11 and 1913-14 (no charts) and 1939-present (charts exist): hourly data from hand-written tables
<b>Is this site a GLOSS station, or are there existing data from this site in the PSMSL,</b>	No GLOSS station Data in PSMSL data bank

<b>UHSLC or other international data banks?</b> (We can enter this field if necessary from our knowledge of GLOSS, PSMSL and UHSLC)	
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<b>2. SUPPLEMENTARY INFORMATION</b>	
<b>Type of charts.</b> Manufacturer of the charts. Approximate size (cm x cm or inch x inch).	Ott provided for several years its own charts. No detailed information on other manufacturers (note: Pagan is a local manufacturer). Fuess gauge: 71.2 cm x 32.6 cm (time axis x height axis) Ott gauge: 49.5 cm x 52.0 cm Pagan gauge: 43.5 cm x 37.7 cm
<b>Manufacturer</b> and description of the gauge itself.	All float gauges Seibt-Fuess (1917-1984): daily chart Büsum-Ott (1966-present): daily chart Pagan (1961 and 1985 - present): weekly chart
<b>Scale factor</b> (i.e. ratio of sea level in the ocean to that on the chart)	1/10
<b>Chart replacement frequency</b> (e.g. daily, weekly)	Daily charts replaced: daily to weekly (variable with time) Weekly charts always weekly
<b>Quality of charts</b> (e.g. Is the pen trace thin and distinct, which is good, or fat or smudged, which is bad? Is the paper deteriorating? How much high-frequency variability is there in the pen trace from waves, harbour activity or seiching).	Old charts (prior to 1960 approx.): well legible thin color pencil trace superimposed by hand on silver writing point trace. The hand-written trace filters out high frequency oscillations (period < 5 minutes) Modern charts: well legible ink-pen trace, generally thin; sometimes thick with strong wind (Bora) when the stilling well hole was too large
<b>How often were checks made on the gauge by a local observer?</b>	Every time charts are replaced
<b>Is there corresponding data available from tide pole readings?</b> How frequent were they (e.g. daily, weekly) and are how are those readings recorded (e.g. in a book, marked on the chart)	Data at every chart replacement from different instruments: direct readings until 1980 (approx.) since 1980 (approx.) meter with electric circuit
<b>Is there other detailed knowledge of the relationship between the zero of the chart readings, tide gauge zero, tide pole zero, heights of nearby benchmarks etc.?</b>	Charts report highs and lows, and times of their occurrence, in centimetres relative to tide gauge zero. Relationships with nearby

	geodetic benchmarks are available.
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