

Table S1. Images and LIDAR/TLS data used to extract the shoreline position.

Date(day/month/year)	Resolution (m)	Shoreline length (m)	Source
01/01/1947	10	14,174.34	ISTITUTO GEOGRAFICO MILITARE map
03/10/1954	3	13,830.84	ISTITUTO GEOGRAFICO MILITARE aerial photo
12/09/1961	6.5	17,654.64	Satellite image-Earth Explorer USGS-Declass 1
29/07/1972	3	17,471.64	ISTITUTO GEOGRAFICO MILITARE aerial photo
01/08/1973	5	17,217.24	Satellite image-Earth Explorer USGS
03/08/1974	3	15,703.75	ISTITUTO GEOGRAFICO MILITARE aerial photo
13/07/1987	3	11,959.42	Satellite image-Earth Explorer USGS
15/07/1987	5	15,580.11	ISTITUTO GEOGRAFICO MILITARE aerial photo
09/08/1989	3	13,162.92	Ortophoto-WMS serviceGeoportaleNazionale
28/07/1996	3	8964.18	ISTITUTO GEOGRAFICO MILITARE aerial photo
01/07/1997	3	18,152.78	Ortophoto-WMS serviceGeoportaleNazionale
07/07/1998	3	18,046.23	Ortophoto-WMS service Geoportale Nazionale
10/05/2003	3	7811.02	ISTITUTO GEOGRAFICO MILITARE aerial photo
26/08/2004	3	18,266.16	Ortophoto-WMS service Geoportale Nazionale
02/10/2006	3	17,757.94	Ortophoto-WMS service SIT Puglia
18/03/2009	5	13,166.01	Satellite image-Rapid eye
28/04/2010	3	18,775.16	Ortophoto-WMS service Geoportale Nazionale
06/11/2010	3	16,377.17	Satellite image-Rapid eye
11/02/2011	3	13,140.27	Ortophoto-WMS service SIT Puglia
20/08/2011	2	34,853.43	Lidar
10/11/2011	3	17,569.11	Satellite images - WorldView2
03/06/2012	3	16,127.16	Satellite image - Rapid eye
12/09/2013	3	17,895.36	Ortophoto-AGEA
27/10/2013	3	16,288.72	Satellite image - Rapid eye
10/05/2014	3	16,490.73	Satellite image - Rapid eye
11/07/2015	3	16,986.54	Satellite image - Rapid eye
18/09/2015	3	17,403.40	Satellite image-WorldView2
04/05/2016	3	18,467.73	Satellite image - Rapid eye
08/07/2017	3	17,503.38	Satellite image - Rapid eye
21/12/2017	3	16,022.58	Satellite image - Rapid eye
18/01/2018	0.5	200.00	Terrestrial Laser Scanner
31/01/2018	0.5	200.00	Terrestrial Laser Scanner
02/03/2018	0.5	200.00	Terrestrial Laser Scanner
16/03/2018	0.5	200.00	Terrestrial Laser Scanner
20/03/2018	0.5	200.00	Terrestrial Laser Scanner
22/06/2018	3	14,421.69	Satellite image - Rapid eye
02/07/2018	3	16,452.76	Satellite image - Rapid eye
13/08/2018	3	16,504.19	Satellite image - Rapid eye
23/08/2018	3	16,588.81	Satellite image - Rapid eye