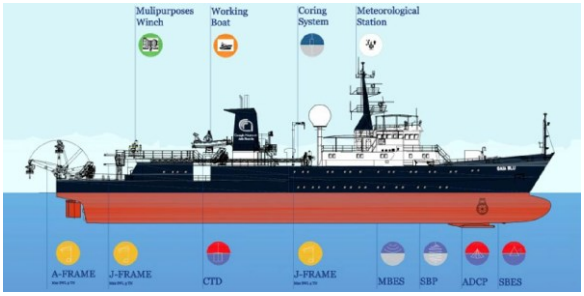
CNR
ISMAR
ISTITUTO
DI SCIENZE
MARINE

PROJECT

BRIDGES 2 – *The former Scily-malta land bridge*



Survey Report

N/R Gaia Blu, 25.08 – 01.09.2026

Authors:

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1. OVERVIEW AND AIM OF THE SCIENTIFIC CRUISE

In this project, we aimed to reconstruct the palaeo-geographic configuration of the former land bridge between southeastern Sicily and Malta/Gozo, an area of the central Mediterranean that was completely exposed during the Last Glacial Maximum (LGM, 26.5 to 19 kyrs BP). This period is defined as the most recent time when Northern Hemisphere continental ice sheets reached their maximum extent and sea level was at its lowest (about -130 m), as evidenced by numerous proxy records. The melting of the ice sheets began around 20–18 kyrs BP and caused a progressive rise in sea level, and by around 13 kyrs ago, according to current reconstructions, the terrestrial connection between Malta and Sicily had disappeared. The two landmasses are now separated by more than 90 kilometers of water.

The most fascinating question is who may have traveled through this landscape during periods in which Malta and Sicily were connected by land. It is quite plausible that this corridor provided a route for the dispersal of animals and, at least in principle, human populations as well. But here the story becomes more complicated. For a long time, Malta was thought to have remained essentially uninhabited until the Neolithic, around 7,500 years ago. That interpretation has recently been challenged by evidence for the presence of hunter-gatherers on Malta around 8,500 years ago. By then, however, the land bridge to Sicily had already disappeared, and Malta was once again in a geographical configuration much closer to that of today. This means that the new map of the land bridge cannot automatically be read as a map of the first human route to Malta. And that is precisely what makes it so interesting. The question is no longer simply “Did humans cross the land bridge?” It becomes much broader: “How did human populations interact with this landscape as the land bridge itself was transformed into a sea?” For the people who inhabited this region, the Mediterranean was not yet a barrier. It was a landscape in transformation. There is another reason why this region deserves attention. Its position between Sicily, Malta, North Africa, and the eastern Mediterranean makes it a geographical hinge at the center of the Mediterranean. During periods of low sea level, the exposed land transformed the central Mediterranean into a network of plains, coastlines, uplands, and corridors. Movement could take place along routes that are now impossible to recognize without reconstructing the detailed submerged topography.

During the cruise conducted aboard the R/V “Gaia Blu” from 25 August to 1 September in both the Italian and Maltese waters, we have collected new high-resolution geophysical data (Multibeam echosounder and high-resolution seismic profiles) and recovered sediment box corers and gravity corers, on which we will perform laboratory analyses and radiocarbon measurements on carbonate biogenic fraction, to constrain the position of the paleo-shoreline during the LGM.

2. CRUISE TEAM

The BRIDGES project is a multidisciplinary scientific study involving ISMAR-CNR, OGS-Trieste, and the University of Malta. The group that took part in the cruise has expertise in marine geophysics, marine geology, sedimentology, and geotechnics.

Name	Role	Position	Affiliation
M. Filomena Loreto	Party Chief	Researcher	ISMAR-CNR
Emanuele Lodolo	Co-Chief	Researcher	OGS - Trieste
Camilla Palmiotto	Geoph. Operator	Researcher	ISMAR-CNR
Andrea Caburlotto	Samp. Surveyor and Geoph. Operator	Researcher	OGS - Trieste
G. Matilde Ferrante	Geoph. Operator	Researcher	OGS - Trieste
Julia Fonseca	Geoph. Operator	Researcher	OGS - Trieste
Fernando Gois Smith	Samp. Surveyor and Geoph. Operator	Researcher	OGS - Trieste
Nora Markezic	Geoph. Operator	Post-doc Researcher	OGS - Trieste
Riccardo Tattini	Geoph. Operator	Master student	Bologna Univ.
Simone Ceccarelli	Geoph. Operator	Master student	Bologna Univ.

3. FIELD ACTIVITIES AND ACQUIRED DATA

Unlike the first BRIDGES Campaign, which was heavily affected by adverse sea weather conditions, this second campaign benefited from excellent conditions throughout the entire duration of the activities at sea. The ship left the port of Catania on August 25th and returned to the same port of Catania on September 1st. Below we provide a summary of the acquisition system used during the cruise.

Multibeam echosounders (Kongsberg EM 2040 and Kongsberg EM 712). A total of 1841.61 km of high-resolution swath bathymetry (Fig. 1) have been acquired simultaneously with the Kongsberg EM 2040 (200–400 kHz) and the Kongsberg EM 712 (70-100 kHz). Maximum port and starboard steering angles were set to 60°, and beam spacing was set to equidistant. To ensure adequate coverage, adjacent swaths were planned with ~20% overlap. The QIMERA acquisition software was used to generate onboard a preliminary Digital Terrain Model (DTM) with a 2×2 m grid cell size. ANNEX 1 shows all the details of the acquired swaths.

Sub-bottom profiler (Knudsen CHIRP 3260). A total of 1841.61 km of high-resolution sub-bottom profiles (see Fig. 1) were acquired with a Knudsen CHIRP 3260 operating on two channels (3.5 kHz and 12.0 kHz). To maximize penetration, the 3.5 kHz channel was selected as the primary channel. The pulse length was set to 1 ms and the power was kept at minimum. CHIRP data were collected concurrently with Multibeam acquisition. To minimize acoustic interference between the Multibeam and CHIRP systems, pinging was externally synchronized via a K-Sync system, resulting in an average ping interval of ~0.6 s. Data were acquired in proprietary raw format and subsequently converted to SEG-Y using Knudsen software. The Rewind software ver. 2.6 (OGS) has been used to automatically extract meta data and navigation coordinates. ANNEX 2 shows all the details of the acquired profiles.

SVP casts (MIDAS). SVP casts were conducted generally every 12 hrs before and/or after the Multibeam tracks to measure key water-column parameters (temperature, salinity) used to calibrate sound-speed (water-velocity) profiles. During the survey, 11 velocity probes were taken (Fig. 2). Weighted probe was launched using the aft A-frame.

Box corer and gravity corer. We used a Carmacoring swing as the box corer and a CP-20 gravity core barrel (for core recovery up to 25 m), operated by the 90 kN Ibercisa winch with 6000 m of steel cable. We have used 5 m and 8 m core barrels of the gravity core during the cruise. Five sites have been sampled with both box corer and gravity corer (see Fig. 1). ANNEX 3 shows the sites of box corer and gravity corer.

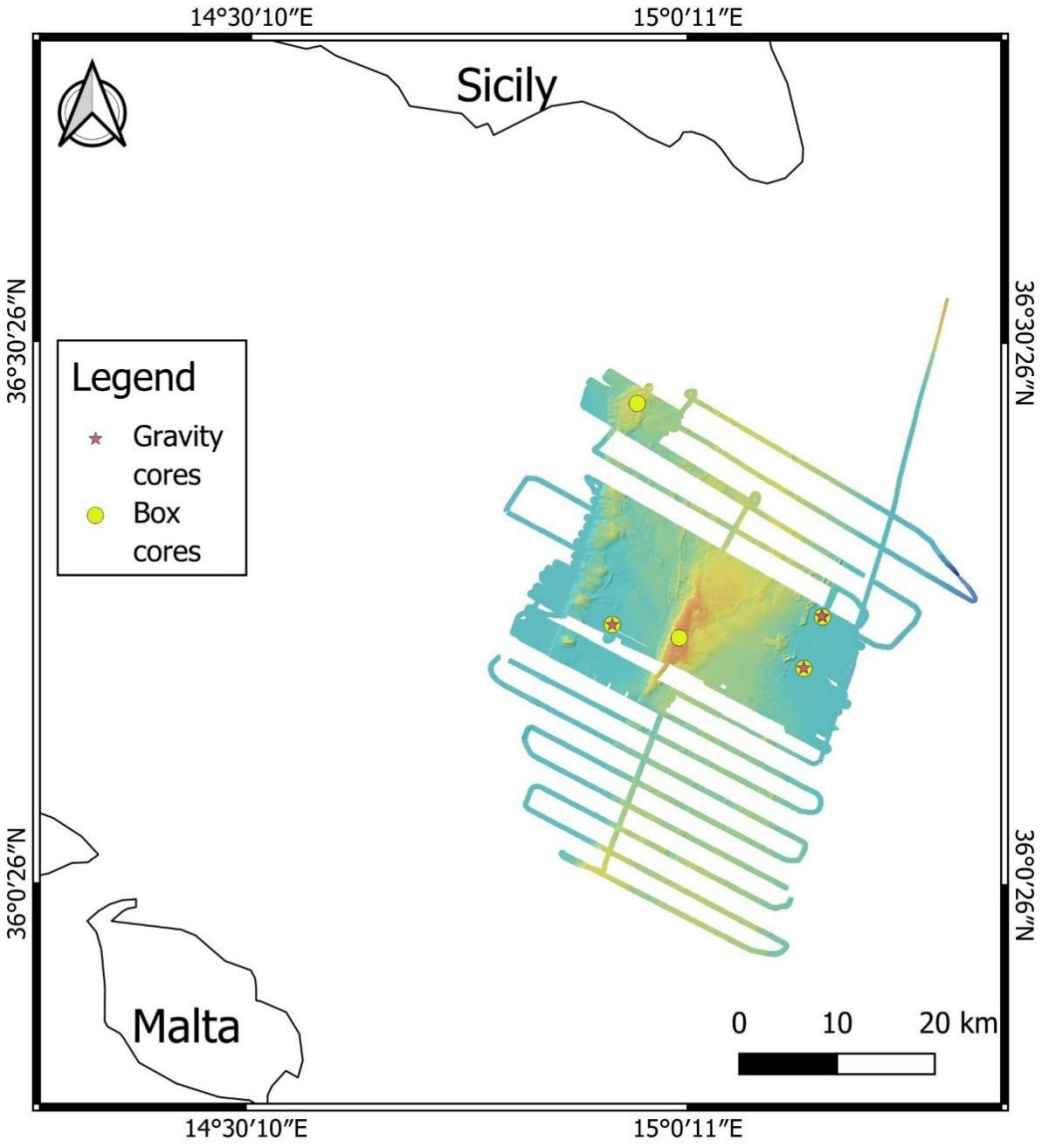

Fig. 1. Map of the geophysical data (Multibeam + CHIRP) and sampling sites acquired during the "BRIDGES_2" Campaign.

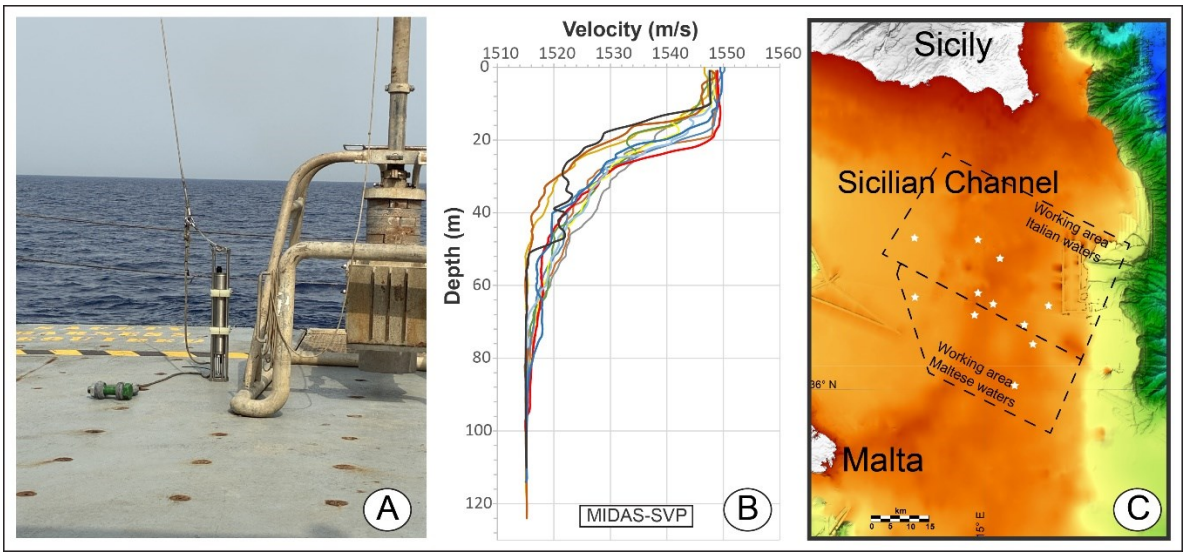

Fig. 2. (left) The MIDAS SVP profiler used on board of the "Gaia Blu". (center) Plot of the SVP profiles collected and used during the survey for MBES calibration. (right) Location map of the SVP velocity profiles.

4. MULTIBEAM BATHYMETRY

Bathymetric data acquisition was initially carried out in Maltese territorial waters, where a grid of equally spaced, non-overlapping profiles trending NW–SE was created to analyze, on a regional scale, the morphological context of the area. This choice was influenced both by the insufficient ship time to entirely cover the sector in Maltese waters and by the need to also operate in the northern sector within Italian waters, where sampling activities were planned and mapping of the central sector of the bridge was to be completed. As mentioned in the previous Cruise Report (BRIDGES_1 Campaign), we have verified that the currently available bathymetric maps (e.g., EmodNet) contain substantial gaps and do not accurately represent the morphology of the seafloor between Malta and Sicily. Despite being in waters relatively close to the coast, where various vessels have passed for millennia, and in modern times equipped with advanced systems for high-resolution bathymetric reconstruction, there are still large unknown areas in our seas. After mapping part of the central sector of the former terrestrial bridge, we carried out transects to intersect the various potential core drilling sites and, with the support of the CHIRP profiles, determined which ones to core. In the final part of the cruise, taking into account the remaining available ship time and aiming to maximize activities, we tried to completely cover the central part of the bridge to obtain the most comprehensive possible picture of the submerged paleoenvironment of this sector of the Sicilian-Maltese platform.

The morphology reconstructed with Multibeam (see examples in Fig. 3) appears more complex than a simple land corridor – a relatively flat ridge – that once connected Sicily and the Maltese Islands, as the available bathymetric maps seem to suggest. Instead, we observe a series of morphological highs, roughly trending NNE-SSW that are not continuous along the sector between Sicily and Malta. They resemble a modern shallow-water tropical platform, with relatively low-lying areas separated by ridges and barriers, and protected basins and lagoons behind them. Overall, based on current observations, this area could represent a sort of a

“lost archipelago” separated by narrow inlets and relatively shallow lagoons. The surface morphology of the outer western reef appears particularly rough and could represent an ancient coral reef.

We are not yet able to map the whole extension of these morphological elements in detail, but it is reasonable to anticipate that the ancient emerged corridor could have been characterized by a landscape similar to a series of islands accompanied by coral reefs in the distal parts and separated by lagoons of varying size and extent.

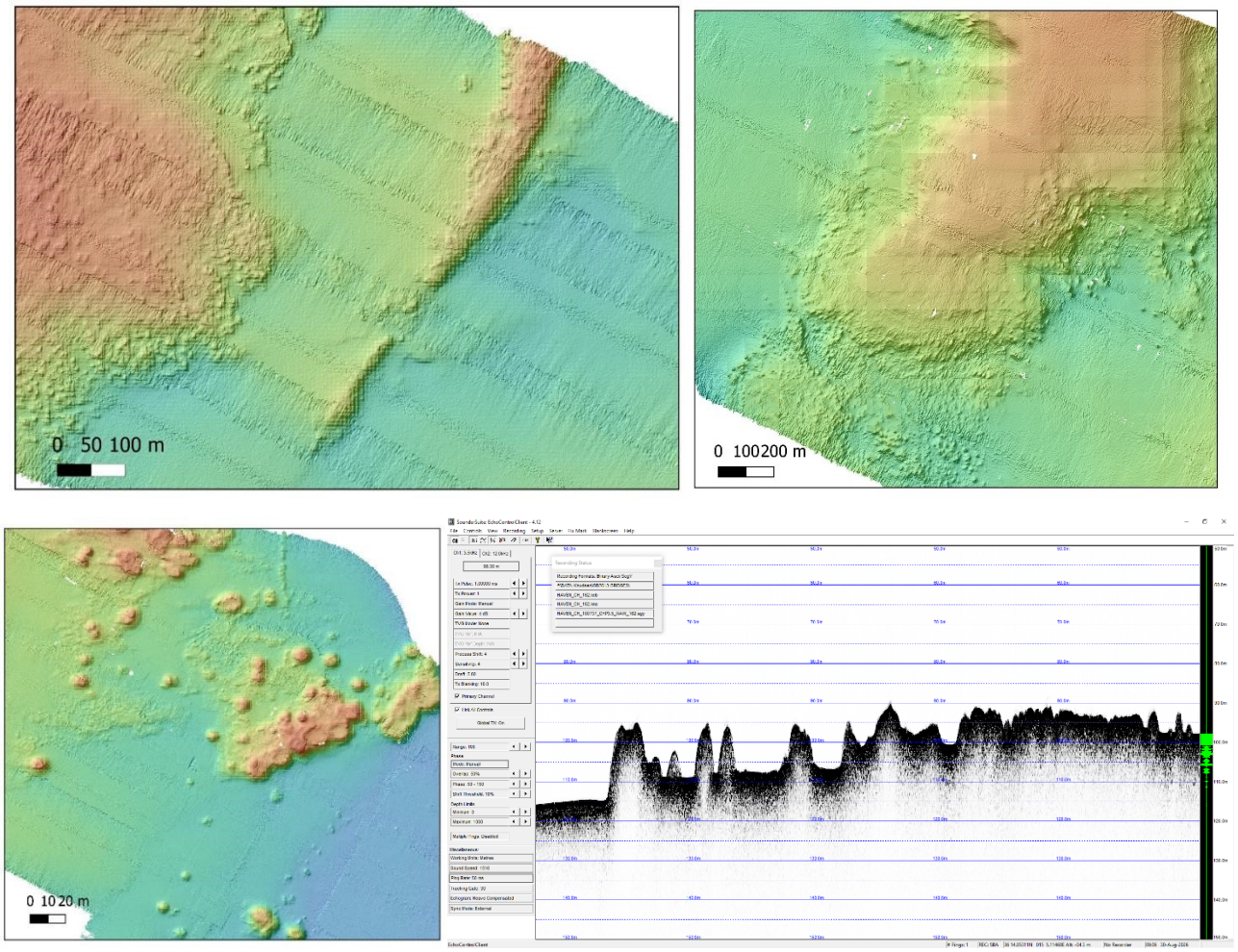

Fig. 3. Some examples of the Multibeam bathymetry acquired during the BRIDGES_2 cruise. (top left) Part of the western “reef”, characterized by a very rough topography. An elongated and narrow ridge bordering to the east the reef is also shown. (top right) Image of the southern termination of the central ridge of the former Sicily-Malta terrestrial corridor. (bottom left) A mud volcanic field identified in the eastern part of the surveyed area at water depths of about 95 m. (bottom right) A snap-shot of the CHIRP profile crossing E-W the mud volcanic field.

5. HIGH-RESOLUTION SEISMIC PROFILES

The seismic profiles were acquired simultaneously with the Multibeam data. The areas surveyed therefore range from the Sicilian-Maltese platform at depths of approximately 120–130 m to the most elevated parts of

the central sector of the former bridge (about 70-80 m water depths). Seismic data revealed the geometry and shallow structure of the main elevated parts composing the former terrestrial corridor, the occurrence of small lagoons between them and, in the deeper part of the surveyed area in the flat platform, the reflector indicating the onset of the post-LGM marine transgression, marked by the presence of ravinement surfaces (Fig. 3).

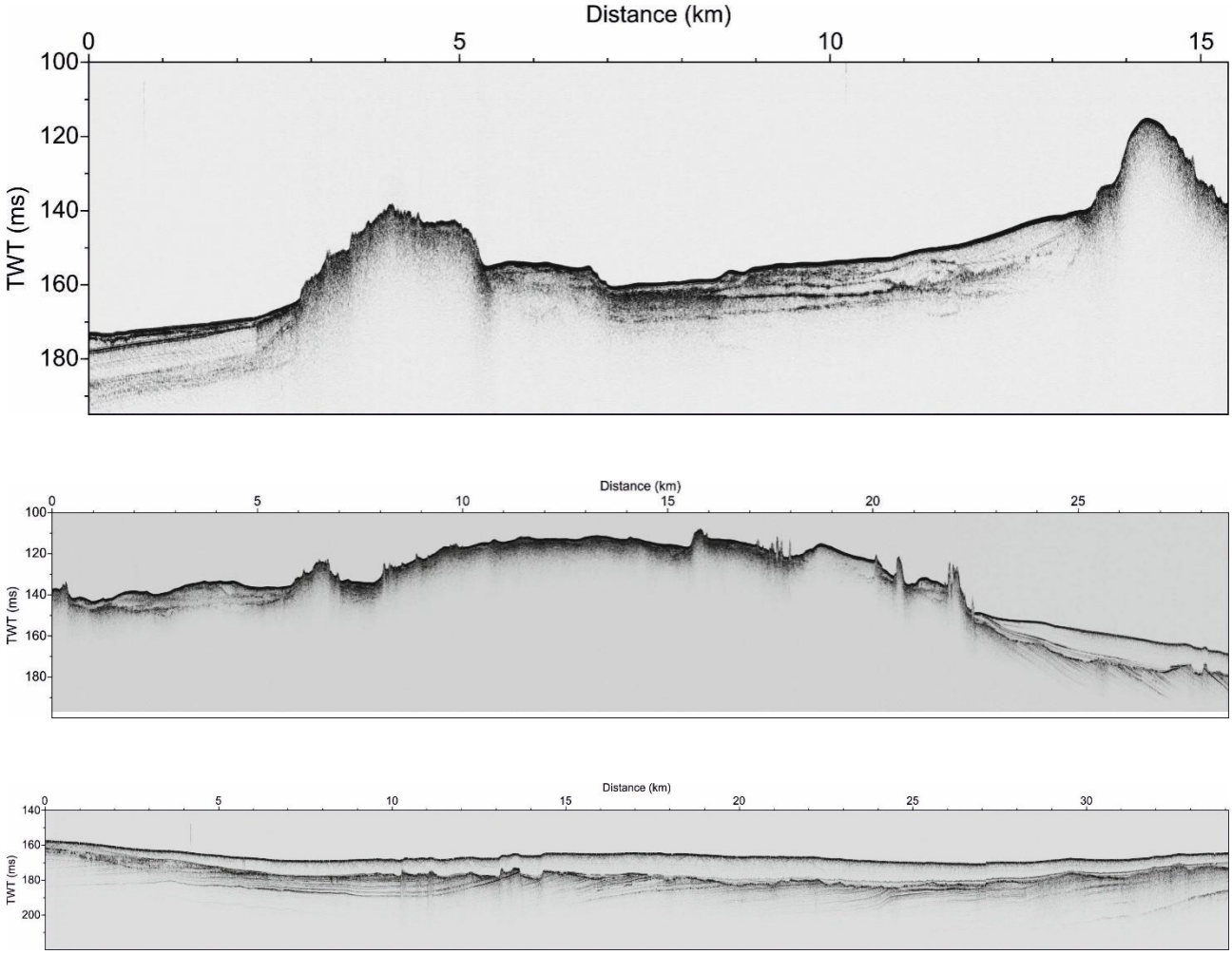

Fig. 4. Examples of CHIRP profiles acquired during the BRIDGES cruise. (top) The complex morphology of the central part of the former Sicily–Malta terrestrial corridor (Line 33), where a lagoon or restricted shallow basin is present between two ridges elongated roughly NNE–SSW. (middle) A NW–SE profile (Line 101) crossing the entire former terrestrial corridor, where possible coral reef features (?) are visible along some sectors of its edges, and a ravinement surface to the east generated by the post-LGM marine transgression. (bottom) A N–S high-resolution profile (Line 04) showing the erosional surface related to the marine transgression, offset by several subvertical faults and some gentle folds.

6. BOX CORERS AND GRAVITY CORERS

To verify the sedimentary characteristics in terms of compactness, box corers (Fig. 5) were first used at the sites planned for the gravity cores, to maximize barrel penetration into the sedimentary column.

Fig. 5. The launching operations of the box corer.

The first box corer was recovered at the top of the N–S-trending ridge forming the central part of the former terrestrial corridor, at a water depth of 80 m. The sample appears to be a well-sorted organogenic sand lacking a clay matrix. Preliminary analysis shows the presence of numerous shell fragments and the absence of matrix, indicating a high-energy depositional environment, while the absence of clastic material suggests an environment not influenced by terrigenous inputs. The sample consists of fragments of numerous spicules, benthic and planktonic macro foraminifera, bryozoans, gastropods, echinoid fragments, and, to a lesser extent, bivalves (Fig. 6).

Fig. 6. (left) The recovered sample with the box corer. (right) Fragments of organic material in the BOX CORER BR26_BC_01.

The second box corer was deployed at water depth of about 110 m within a supposed former lagoonal area located between a reef to the west and the central ridge to the east, in the vicinity of a small channel seen on the high-resolution profile crossing the area.

The sample (Fig. 7) appears as a poorly sorted organogenic fine sand composed of calcareous shell fragments and numerous lithic fragments. The presence of clasts indicates an environment influenced by terrigenous input. The sample consists of fragments of various bivalves, gastropods, scaphopods, and bryozoans, along with a minor component of macro foraminifera. The presence of some dark-colored foraminifera is also noteworthy.

Fig. 7. (left) The recovered sample with the box corer. (right) Fragments of organic material and lithic fragments in the BOX CORER BR26_BC_02.

In this same site, we attempted to sample the sedimentary cover with a gravity core with a 5 m long barrel (Fig. 8), but the recovery was only 30 cm of sediments due to the presence of a sand lens that impeded further penetration.

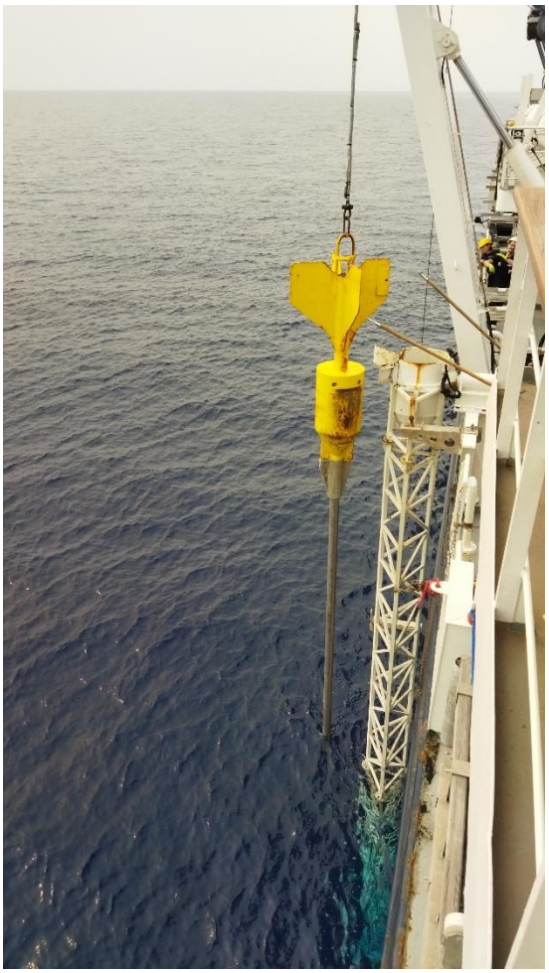

Fig. 8. The gravity core system used in this Campaign (barrel length of 5 m in this photograph).

The site of the third box corer (BR26_BC_03) was selected (water depth of about 116 m) based on a detailed analysis of the acquired CHIRP profiles, at the location where the reflector associated to the post-LGM ravinement surface intersects the seafloor and where the sediment thickness potentially allowed us to cross this reflector with our 5 m barrel. About 60 cm of soft, muddy sediment was recovered at this site (Fig. 9) with the box corer. The same site was also penetrated with our gravity barrel, from which we recovered about 2.5 m of muddy sedimentary layers. A second core was extracted at exactly the same site, also recovering about 2.5 m of sediment.

Fig. 9. (left) The recovered sample in the BOX CORER BR26_BC_03.

The site of the fourth box corer (Fig. 9) was located about 5 km north of the previous site, where high-resolution seismic profiles show the post-LGM reflector at about 5 m below the seafloor. The purpose of this site was to intercept this reflector with the gravity core at a water depth just a few meters greater than at the previous site.

Fig. 10. (left) The recovered sample in the BOX CORER BR26_BC_04.

At both cored sites, upon recovery of the core barrel, mud was observed up to the barrel's ballast, indicating that it penetrated well beyond the 5 m length of the rod and suggesting the presence of relatively poorly consolidated sediments at those depths. This implies that the ravinement surface reflector was likely not intercepted. Therefore, for future campaigns in this area, it will be desirable to obtain a new core at this site using rods of at least 8–10 m to ensure sampling of this surface.

In the site of the box corer BR26_BC_05 (Fig. 11) we have recovered organogenic sand with a quite significant mud component as a matrix and a number of fragments of coralligenous and other biogenic fragments. This site is located at the top of a morphological high at about 82 m water depth.

Fig. 11. (left) The recovered sample in the BOX CORER BR26_BC_05. (right) Photograph of the organogenic sand at the top pf the core.

Annex 1 -Multibeam tracks

		Vessel: Gaia Blu		MBES: 2040			

Date	Time UTC	Operation	Line	Latitude (dd)	Longitude (dd)	Speed (kn)	Water depth (m)
25/08/26	21:15	SOL	0	36.54589N	15.29892E	10.5	73
25/08/26	23:54	EOL	0024	36.121733N	15.153336E	0.3	119
26/08/26	00:19	SOL	0025	36.121575N	15.152765E	0.3	119
26/08/26	02:52	SOL	0011	36.239196N	14.808011E	8.2	133
26/08/26	05:15	SOL	0015	36.076484N	15:131013E	7.7	110
26/08/26	7:32	EOL	0017 - 0020	36.215833N	14.798605E		
26/08/26	8:06	SOL	0021	36.218568N	14.790765E	5	133
26/08/26	15:11	EOL	0035	36.005193N	15.116482E	8	109
26/08/26	15:48	SOL	0036	35.996580N	15.120287E	6.8	109
26/08/26	18:00	SOL	0040	36.078075N	14.823138E	7.6	123
26/08/26	23:35	EOL	0052	36.171554N	14.976139E	0.1	97
26/08/26	23:55	SOL	0052	36.173748N	14,973498E	2.8	93
27/08/26	02:32	SOL	0057	36.180039N	14.980567E	7.3	96
27/08/26	03:49	SOL	0059	36.248005N	14.811110E	7.3	133
27/08/26	05:00	SOL	0062	36.174127N	14.978578E	7.3	97
27/08/26	06:13	SOL	0064	36.244062N	14.813212E	6.2	132
27/08/26	8:31	SOL	0069	36.226694N	14.977979E	0.1	85
27/08/26	9:02	EOL	0070	36.235458N	14.993486	0.2	72
27/08/26	9:45	SOL	0071	36.236226N	14.993991E	0.3	71
27/08/26	12:35	EOL	0076	36.248315N	14.916625E	0.1	118
27/08/26	15:09	SOL	0077	36.253180N	14.924090E	5.6	114
27/08/26	15:36	SOL	0077	36.240516N	14.914019E	8.7	119
27/08/26	16:14	SOL	0079	36.274568N	14.826464E	6.5	131
27/08/26	16:31	SOL	0079	36.257409N	14.862861E	2.4	121
27/08/26	16:54	SOL	0080	36.260335N	14.823503E	8	131
27/08/26	18:03	SOL	0082	36.219036N	14.966223E	8.2	109
27/08/26	19:27	EOL	0085	36.198523N	15.022467E	1.7	96
27/08/26	20:02	SOL	0087	36.200627N	15.028362E	5.4	97
28/08/26	02:58	SOL	0101	36.299660N	14.849263E	8.6	130
28/08/26	04:16	SOL	0104	36.220959N	15.047311E	8.3	98
28/08/26	05:34	SOL	0107	36.305441N	14.856148E	8.1	130
28/08/26	07:02	SOL	109	36.228247N	15.049329E	5.5	95
28/08/26	-	SOL	-	36.207064N	15.114386E	-	98
28/08/26	-	SOL	-	36.203456N	15.11903E	-	113
28/08/26	12:01	SOL	0119	36.230417N	15.083045E	8.0	98
28/08/26	13:42	EOL	0123	36.351505N	14.798180E	2.2	137
28/08/26	14:10	SOL	0124	36.352190N	14.796596E	1.7	136
28/08/26	15:15	SOL	0126	36.371730N	14.908023E	8.4	104
28/08/26	17:46	SOL	0131	36.264322N	15.262013E	6.6	144

29/08/26	02:29	SOL	0148	36.454959N	15.007716E	10	94
29/08/26	02:58	SOL	0149	36.413141N	14.969603E	9	104
29/08/26	03:44	SOL	0151	36.366080N	15.077065E	9.8	93
29/08/26	04:20	SOL	0152	36.257334N	15.010091E	9.7	80
29/08/26	05:29	SOL	0154	36.182284N	15.179525E	10	128
29/08/26	05:54	EOL	0155	36.212956N	15.106952E	9.1	104
29/08/26	7:02	SOL	0156	36.208032N	15.134660E	0.1	118
29/08/26	08:07	EOL	0156	36.208069N	15.134715E	0.1	118
29/08/26	09:26	SOL	0159	36.208143N	15.134812E	0.1	118
29/08/26	11:16	EOL	0162	36.255730N	15.155857E	0.2	116
29/08/26	15:12	SOL	0163	36.257384N	15.153310	8	117
29/08/26	16:10	EOL	0164	36.255702N	15.161228E	0.1	109
29/08/26	16:42	SOL	0165	36.151429N	15.114919E	8.5	110
29/08/26	17:07	SOL	0165	36.137788N	15.158915E	8.5	123
29/08/26	18:01	SOL	0167	36.195812N	15.024085E	5.3	96
29/08/26	18:58	EOL	0170	36.149402N	15.142355E	4.7	126
29/08/26	18:56	EOL	0170				
29/08/26	19:03	SOL	0170	36.145775N	15.161341E	5.1	125
29/08/26	20:50	EOL	0174	36.150160N	15.164034E	8.5	125
29/08/26	20:55	SOL	0174	36.150751N	15.172032E	5.1	127
30/08/26	02:32	SOL	0185	36.227209N	15.050466E	8.5	96
30/08/26	03:19	SOL	0186	36.175921N	15.173798E	8.6	128
30/08/26	03:54	SOL	0188	36.210886N	15.109747E	10	111
30/08/26	05:16	SOL	0190	36.310439N	14.882664E	6	125
30/08/26	14:27	SOL	0209	36.332292N	14.886948E	9.9	125
30/08/26	16:08	SOL	0212	36.211756N	15.179960	9.8	125
30/08/26	17:48	SOL	0215	36.338859N	14.893149E	10	124
31/08/26	03:17	SOL	0234	36.231440N	14.196845E	9.2	126
31/08/26	05:04	SOL	0238	36.362167N	14.904518E	9.7	103
31/08/26	05:53	SOL	0239	36.308256N	15.036258E	10	87
31/08/26	12:14	EOL	0252	36.452219N	14.945390E	1.6	86
31/08/26	13:11	SOL	0253	36.452705N	14.943027E	6	86
31/08/26	13:34	SOL	0253	36.480405N	14.918412E	9.6	104
31/08/26	14:06	SOL	0254	36.443908N	14.984813E	9,4	99
31/08/26	14:36	SOL	0255	36.473178N	14.912316E	9.7	107
31/08/26	15:08	SOL	0256	36.428667N	14.985049E	9.1	98
31/08/26	15:48	SOL	0258	36.469390N	14.892626E	10	112
31/08/26	16:20	SOL	0259	36.425854N	14.972289E	9.1	99
31/08/26	16:52	SOL	0260	36.460485N	14.892484E	9	113
31/08/26	17:22	SOL	0261	36.420724N	14.963107E	10	103
31/08/26	17:52	SOL	0262	36.451293N	14.891464E	10.6	114

Annex 2 – CHIRP profiles

Sub bottom: CHIRP				Survey:	BRIDGES		Vessel: Gaia Blu
Acquisition system: KNUDSEN							
Date	**Time**	**Operation**	**File name**	**Latitude**	**Longitude**	**Speed (kt)**	**Depth (m)**
25/08/26	21:15	SOL	raw_003	36.54589N	15.29892E	10.5	73
25/08/26	23:54	EOL	raw_004	36.121733N	15.153336E	0.3	119
26/08/26	00:19	SOL	raw_005	36.121575N	15.152765E	0.3	119
26/08/26	00:30	EOL	raw_005	36.120966N	15.142584E	8.3	119
26/08/26	00:30	SOL	raw_006	36.120966N	15.142584E	8.3	119
26/08/26	00:35	EOL	raw_006	36.126203N	15.130004E		
26/08/26	00:35	SOL	raw_007	36.126203N	15.130004E		
26/08/26	02:40	EOL	raw_007	36.258494N	14.818556E	7.6	133
26/08/26	02:40	SOL	raw_008	36.258494N	14.818556E	7.6	133
26/08/26	02:52	EOL	raw_008	36.239196N	14.808011E	7.9	133
26/08/26	02:52	SOL	raw_009	36.239196N	14.808011E	8.2	133
26/08/26	04:59	EOL	raw_009	36.094261N	15.146065E	8.9	115
26/08/26	04:59	SOL	raw_010	36.094261N	15.146065E	8.9	115
26/08/26	05:15	EOL	raw_010	36.076484N	15:131013E	7.7	110
26/08/26	05:15	SOL	raw_011	36.076484N	15:131013E	7.7	110
26/08/26	7:32	EOL	raw_011	36.215833N	14.798605E		
26/08/26	8:06	SOL	raw_012	36.218568N	14.790765E	5	133
26/08/26	8:20	EOL	raw_012	36.197065N	14.786819E	8.1	132
26/08/26	8:20	SOL	raw_013	36.197065N	14.786819E	8.1	132
26/08/26	10:40	EOL	raw_013	36.046954N	15.135583E	5.2	103
26/08/26	10:41	SOL	raw_014	36.046954N	15.135583E	5.2	103
26/08/26	10:59	EOL	raw_014	36.031965N	15.112953E	6.4	109
26/08/26	10:59	SOL	raw_015	36.031965N	15.112953E	6.4	109
26/08/26	12:55	EOL	raw_016	36.153042N	14.826518E	5.1	120
26/08/26	12:55	SOL	raw_017	36.153054N	14.826317E	5.1	120
26/08/26	13:12	EOL	raw_018	36.128722N	14.826220E	5.7	120
26/08/26	13:12	SOL	raw_019	36.128487N	14.826610E	5.7	120
26/08/26	15:11	EOL	raw_019	36.005193N	15.116482E	8.0	109
26/08/26	15:48	SOL	raw_020	35.996580N	15.120287E	6.8	109
26/08/26	16:01	EOL	raw_020	35.988951N	15.095666E	7.8	103
26/08/26	16:01	SOL	raw_021	35.988951N	15.095666E	7.8	103
26/08/26	17:45	EOL	raw_021	36.096947N	14.840244E	8.3	123

26/08/26	17:46	SOL	raw_022	36.099143N	14.833759E	7.8	123
26/08/26	17:59	EOL	raw_022	36.078830N	14.821940E	7.6	123
26/08/26	18:00	SOL	raw_023	36.078075N	14.823138E	7.6	123
26/08/26	19:59	EOL	raw_023	35.955443N	15.111709E	8.1	104
26/08/26	19.59	SOL	raw_024	35.955443N	15.111709E	8.1	104
26/08/26	20:19	EOL	raw_024	35.947796N	15.077338E	7.8	99
26/08/26	20:19	SOL	raw_025	35.947796N	15.077338E	7.8	99
26/08/26	21:48	EOL	raw_025	36.035567N	14.865178E	7.0	113
26/08/26	21:48	SOL	raw_026	36.035567N	14.865178E	7.0	113
26/08/26	21:56	EOL	raw_026	36.033690N	14.864043E	5.7	111
26/08/26	21:56	SOL	raw_027	36.033690N	14.864043E	5.7	111
26/08/26	22:22	EOL	raw_027	36.028241N	14.909633E	7.9	87
26/08/26	22:22	SOL	raw_028	36.028241N	14.909633E	7.9	87
26/08/26	23:35	EOL	raw_028	36.171554N	14.976139E	0.1	97
26/08/26	23:55	SOL	raw_029	36.173748N	14.973498E	2.8	93
27/08/26	01:08	EOL	raw_029	37.239668N	14.816247E	3.7	132
27/08/26	01:08	SOL	raw_030	37.239668N	14.816247E	3.7	132
27/08/26	01:26	EOL	raw_030	36.247227N	14.832296E	8.7	131
27/08/26	01:26	SOL	raw_031	36.247227N	14.832296E	8.7	131
27/08/26	02:25	EOL	raw_031	36.186098N	14.977991E	8.2	99
27/08/26	02:25	SOL	raw_032	36.186098N	14.977991E	8.2	99
27/08/26	02:32	EOL	raw_032	36.180039N	14.980567E	7.3	96
27/08/26	02:32	SOL	raw_033	36.180039N	14.980567E	7.3	96
27/08/26	03:45	EOL	raw_033	36.250224N	14.816208E	7.4	132
27/08/26	03:45	SOL	raw_034	36.250224N	14.816208E	7.4	132
27/08/26	03:49	EOL	raw_034	36.248005N	14.811110E	7.3	133
27/08/26	03:49	SOL	raw_035	36.248005N	14.811110E	7.3	133
27/08/26	04:57	EOL	raw_035	36.177607N	14.978302E	8	96
27/08/26	04:57	SOL	raw_036	36.177607N	14.978302E	8	96
27/08/26	05:00	EOL	raw_036	36.174127N	14.978578E	7.3	97
27/08/26	05:00	SOL	raw_037	36.174127N	14.978578E	7.3	97
27/08/26	6:13	EOL	raw_037	36.244062N	14.813212E	6.2	132
27/08/26	6:13	SOL	raw_038	36.244062N	14.813212E	6.2	132
27/08/26	6:22	EOL	raw_038	36.245286N	14.815807E	6.2	132
27/08/26	6:22	SOL	raw_039	36.245286N	14.815807E	6.2	132
27/08/26	6:42	EOL	raw_039	36.282128N	14.841037E	6.3	130
27/08/26	6:42	SOL	raw_040	36.282128N	14.841037E	6.3	130
27/08/26	7:09	EOL	raw_040	36.282935N	14.847624E	8.3	130
27/08/26	7:09	SOL	raw_041	36.282935N	14.847624E	8.3	130
27/08/26	8:05	EOL	raw_041	36.227556N	14.977556	3.2	92
27/08/26	8:05	SOL	raw_042	36.227556N	14.977556	0.2	83
27/08/26	8:10	EOL	raw_042	36.226701N	14.978247	0.2	83
27/08/26	8:20	SVP	-	36.226683N	14.978124E	0	84
27/08/26	8:31	SOL	raw_043	36.226694N	14.977979E	0.1	85
27/08/26	8:37	EOL	raw_043	36.227563E	14.983563E	4.8	75

27/08/26	8:37	SOL	raw_044	36.227563	14.983563E	4.8	75
27/08/26	8:48	EOL	raw_044	36.240373N	14.994086E	2	64
27/08/26	8:48	SOL	raw_045	36.2405535N	14.994214E	1.5	64
27/08/26	9:01	EOL	raw_045	36.235458N	14.993486	0.5	72
27/08/26	9:45	SOL	raw_046	36.236226N	14.993991E	0.3	71
27/08/26	9:54	EOL	raw_046	36.234107N	15.999588E	6.3	74
27/08/26	9:54	SOL	raw_047	36.234107N	15.999588E	6.3	74
27/08/26	10:04	EOL	raw_047	36.221019N	14.991728E	1.9	70
27/08/26	10:04	SOL	raw_048	36.221019N	14.991728E	1.9	70
27/08/26	10:20	EOL	raw_048	36.206673N	15.024615E	5.6	92
27/08/26	10:20	SOL	raw_049	36.206673N	15.024615E	5.6	92
27/08/26	10:26	EOL	raw_049	36.202369N	15.024880E	2.9	97
27/08/26	10:26	SOL	raw_050	36.202369N	15.024880E	2.9	97
27/08/26	11:40	EOL	raw_050	36.279912N	14.841799E	8.2	131
27/08/26	11:50	SOL	raw_051	36.280938N	14.831169E	3.8	131
27/08/26	12:24	EOL	raw_051	36.247556N	14.907872E	5.9	121
27/08/26	12:24	SOL	raw_052	36.247556N	14.907872E	5.9	121
27/08/26	12:35	EOL	raw_052	36.248315N	14.916625E	0.1	118
27/08/26	14:58	SOL	raw_053	36.248242N	14.917342E	8	118
27/08/26	15:16	EOL	raw_053	36.259074N	14.924127E	6.9	115
27/08/26	15:16	SOL	raw_054	36.259074N	14.924127E	6.9	115
27/08/26	15:28	EOL	raw_054	36.236104N	14.909679E	8	120
27/08/26	15:28	SOL	raw_055	36.236104N	14.909679E	8	120
27/08/26	15:35	EOL	raw_055	36.240516N	14.914019E	8.7	119
27/08/26	15:35	SOL	raw_056	36.240516N	14.914019E	8.7	119
27/08/26	16:07	EOL	raw_056	36.275121N	14.830760E	6.7	130
27/08/26	16:07	SOL	raw_057	36.275121N	14.830760E	6.7	130
27/08/26	16:14	EOL	raw_057	36.274568N	14.826464E	6.5	131
27/08/26	16:14	SOL	raw_058	36.274568N	14.826464E	6.5	131
27/08/26	16:31	EOL	raw_058	36.257409N	14.862861E	2.4	121
27/08/26	16:31	SOL	raw_059	36.257409N	14.862861E	2.4	121
27/08/26	16:54	EOL	raw_059	36.260335N	14.823503E	8	131
27/08/26	16:54	SOL	raw_060	36.260335N	14.823503E	8	131
27/08/26	17:50	EOL	raw_060	36.200142N	14.965304E	8.2	82
27/08/26	17:50	SOL	raw_061	36.200142N	14.965304E	8.2	82
27/08/26	18:03	EOL	raw_061	36.219036N	14.966223E	8.2	109
27/08/26	18:03	SOL	raw_062	36.219036N	14.966223E	8.2	109
27/08/26	18:29	EOL	raw_062	36.243521	14.899201	5.8	121
27/08/26	18:29	SOL	raw_063	36.243529	14.899100	5.7	121
27/08/26	18:38	EOL	raw_063	36.243051	14.913520	8.7	119
27/08/26	18:39	SOL	raw_064	36.242967	14.913748	8.8	119
27/08/26	19:27	EOL	raw_064	36.198523	15.022467	1.7	96
27/08/26	19:57	SOL	raw_065	36.198210	15.023257	0.3	96
27/08/26	20:15	EOL	raw_065	36.210187	15.030760	5.2	98
27/08/26	20:15	SOL	raw_066	36.210299	15.030565	5.3	98

27/08/26	21:27	EOL	raw_066	36.287782	14.846685	6.1	130
27/08/26	21:27	SOL	raw_067	36.287862	14.846499	6.1	130
27/08/26	21:35	EOL	raw_067	36.292493	14.845631	6.5	130
27/08/26	21:35	SOL	raw_068	36.292493	14.845766	6.6	130
27/08/26	22:53	EOL	raw_068	36.211943N	15.036697E	5.2	98
27/08/26	22:53	SOL	raw_069	36.211943N	15.036697E	5.2	98
27/08/26	23:13	EOL	raw_069	36.194378N	15.025639E	7.1	96
27/08/26	23:13	SOL	raw_070	36.194378N	15.025639E	7.1	96
27/08/26	23:36	EOL	raw_070	36.217711N	14.969494E	8.0	99
27/08/26	23:47	SOL	raw_071	36.217711N	14.969494E	8.0	99
27/08/26	23:47	EOL	raw_071	36.224602N	14.962865E	7.1	109
27/08/26	23:47	SOL	raw_072	36.224602N	14.962865E	7.1	109
28/08/26	00:11	EOL	raw_072	36.200548N	15.022309E	8.2	98
28/08/26	00:11	SOL	raw_073	36.200548N	15.022309E	8.2	98
28/08/26	00:25	EOL	raw_073	36.207766N	15.027638E	7.6	98
28/08/26	00:25	SOL	raw_074	36.207766N	15.027638E	7.6	98
28/08/26	00:47	EOL	raw_074	36.231411N	14.974607E	7.0	99
28/08/26	00:47	SOL	raw_075	36.231411N	14.974607E	7.0	99
28/08/26	00:57	EOL	raw_075	36.227389N	14.975111E	6.1	94
28/08/26	00:57	SOL	raw_076	36.227389N	14.975111E	6.1	94
28/08/26	01:21	EOL	raw_076	36.203039N	15.031541E	5.4	99
28/08/26	01:21	SOL	raw_077	36.203039N	15.031541E	5.4	99
28/08/26	01:33	EOL	raw_077	36.215028N	15.039771E	4.8	99
28/08/26	01:33	SOL	raw_078	36.215028N	15.039771E	4.8	99
28/08/26	02:50	EOL	raw_078	36.294796N	14.850591	8.2	130
28/08/26	02:50	SOL	raw_079	36.294796N	14.850591	8.2	130
28/08/26	02:58	EOL	raw_079	36.299660N	14.849263E	8.6	130
28/08/26	02:58	SOL	raw_080	36.299660N	14.849263E	8.6	130
28/08/26	04:12	EOL	raw_080	36.217741N	15.043031E	8.3	98
28/08/26	04:12	SOL	raw_081	36.217741N	15.043031E	8.3	98
28/08/26	04:16	EOL	raw_081	36.220959N	15.047311E	8.3	98
28/08/26	04:16	SOL	raw_082	36.220959N	15.047311E	8.3	98
28/08/26	05:30	EOL	raw_082	36.302601N	14.853334E	8.2	130
28/08/26	05:30	SOL	raw_083	36.302601N	14.853334E	8.2	130
28/08/26	05:34	EOL	raw_083	36.305441N	14.856148E	8.1	130
28/08/26	05:34	SOL	raw_084	36.305441N	14.856148E	8.1	130
28/08/26	06:32	EOL	raw_084	36.243154N	15.004157E	4.6	77
28/08/26	06:32	SOL	raw_085	36.243154N	15.004157E	4.6	77
28/08/26	07:02	EOL	raw_085	36.228247N	15.049329E	5.5	95
28/08/26	07:02	SOL	raw_086	36.228247N	15.049329E	5.5	95
28/08/26	8:18	EOL	raw_086	36.302974N	14.874029E	6.5	126
28/08/26	8:18	SOL	raw_087	36.302974N	14.874029E	9.0	126
28/08/26	8:22	EOL	raw_087	36.304432N	14.878249E	9.0	125
28/08/26	8:22	SOL	raw_088	36.304432N	14.878249E	9.0	125
28/08/26	10:18	EOL	raw_088	36.188124N	15.154234E	7.9	123

28/08/26	10:18	SOL	raw_089	36.188124N	15.154234E	7.9	123
28/08/26	10:33	EOL	raw_089	36.198428N	15.157107E	7.2	123
28/08/26	10:33	SOL	raw_090	36.198428N	15.157107E	7.2	123
28/08/26	10:59	EOL	raw_090	36.219532N	15.109232E	4.3	107
28/08/26	10:59	SOL	raw_091	36.219532N	15.109232E	4.3	107
28/08/26	11:16	EOL	raw_091	36.217436N	15.121681E	3.6	105
28/08/26	11:16	SOL	raw_092	36.217436N	15.121681E	3.6	105
28/08/26	11:29	EOL	raw_092	36.202953N	15.112056E	4.3	110
28/08/26	11:29	SOL	raw_093	36.202953N	15.112056E	4.3	110
28/08/26	11:36	EOL	raw_093	36.205615N	15.106111E	4.1	111
28/08/26	11:36	SOL	raw_094	36.205615N	15.106111E	4.1	111
28/08/26	11:45	EOL	raw_094	36.214900N	15.113021E	3.9	104
28/08/26	11:45	SOL	raw_095	36.214900N	15.113021E	3.9	104
28/08/26	11:49	EOL	raw_095	36.218962N	15.109420E	6.0	106
28/08/26	11:49	SOL	raw_096	36.218962N	15.109420E	6.0	106
28/08/26	13:42	EOL	raw_096	36.351505N	14.798180E	2.2	137
28/08/26	13:54	SVP		36.352012N	14.796968E	0.1	137
28/08/26	14:10	SOL	raw_097	36.352190N	14.796596E	1.7	136
28/08/26	14:34	EOL	raw_097	36.381919N	14.832553E	8	133
28/08/26	14:34	SOL	raw_098	36.381919N	14.832553E	8	133
28/08/26	14:51	EOL	raw_098	36.362252N	14.877233E	8.8	127
28/08/26	14:51	SOL	raw_099	36.362252N	14.877233E	8.8	127
28/08/26	15:01	EOL	raw_099	36.355530N	14.892863E	3.4	123
28/08/26	15:01	SOL	raw_100	36.355530N	14.892863E	3.4	123
28/08/26	15:15	EOL	raw_100	36.371730N	14.908023E	8.4	104
28/08/26	15:15	SOL	raw_101	36.371730N	14.908023E	8.4	104
28/08/26	17:17	EOL	raw_101	36.229021N	15.216985E	7.6	136
28/08/26	17:17	SOL	raw_102	36.229021N	15.216985E	7.6	136
28/08/26	17:46	EOL	raw_102	36.264322N	15.262013E	6.6	144
28/08/26	17:46	SOL	raw_103	36.264322N	15.262013E	6.6	144
28/08/26	19:30	EOL	raw_103	36.378274N	15.030086E	8.3	92
28/08/26	19:30	SOL	raw_104	36.378274N	15.030086E	8.3	92
28/08/26	20:21	EOL	raw_104	36.439043N	14.905339E	8.3	112
28/08/26	20:21	SOL	raw_105	36.439043N	14.905339E	8.3	112
28/08/26	20:57	EOL	raw_105	36.463216N	14.921651E	7.9	106
28/08/26	20:57	SOL	raw_106	36.463183N	14.921732E	7.9	106
28/08/26	23:53	EOL	raw_106	36.269804N	15.326042E	4.8	260
28/08/26	23:53	SOL	raw_107	36.269694N	15.326426E	4.7	261
29/08/26	00:29	EOL	raw_107	36.329468N	15.272583E	6.3	144
29/08/26	00:29	SOL	raw_108	36.329468N	15.272583E	6.3	144
29/08/26	02:21	EOL	raw_109	36.459118N	15.003144E	9	95
29/08/26	02:21	SOL	raw_110	36.459118N	15.003144E	9	95
29/08/26	02:29	EOL	raw_110	36.454959N	15.007716E	10	94
29/08/26	02:29	SOL	raw_111	36.454959N	15.007716E	10	94
29/08/26	02:55	EOL	raw_111	36.416560N	14.966069E	6.3	104

29/08/26	02:55	SOL	raw_112	36.416560N	14.966069E	6.3	104
29/08/26	02:58	EOL	raw_112	36.413141N	14.969603E	9	104
29/08/26	02:58	SOL	raw_113	36.413141N	14.969603E	9	104
29/08/26	03:36	EOL	raw_113	36.359418N	15.078697E	9	94
29/08/26	03:36	SOL	raw_114	36.359418N	15.078697E	9	94
29/08/26	03:44	EOL	raw_114	36.366080N	15.077065E	9.8	93
29/08/26	03:44	SOL	raw_115	36.366080N	15.077065E	9.8	93
29/08/26	04:27	EOL	raw_115	36.262560N	15.006465E	9	74
29/08/26	04:27	SOL	raw_116	36.262560N	15.006465E	9	74
29/08/26	04:20	EOL	raw_116	36.257334N	15.010091E	9.7	80
29/08/26	04:20	SOL	raw_117	36.257334N	15.010091E	9.7	80
29/08/26	05:26	EOL	raw_117	36.185377N	15.178942E	9.9	128
29/08/26	05:26	SOL	raw_118	36.185377N	15.178942E	9.9	128
29/08/26	05:29	EOL	raw_118	36.182284N	15.179525E	10	128
29/08/26	05:29	SOL	raw_119	36.182284N	15.179525E	10	128
29/08/26	05:54	EOL	raw_119	36.212956N	15.106952E	9.1	104
29/08/26	05:54	SOL	raw_120	36.212956N	15.106952E	9.1	104
29/08/27	9:26	EOL	raw_120	36.208138N	15.134823E	0.1	118
			raw_121				
29/08/26	9:26	SOL	raw_122	36.208138N	15.134823E	0.1	118
29/08/26	9:36	EOL	raw_122	36.213502N	15.137259E	5.5	119
29/08/26	9:36	SOL	raw_123	36.213502N	15.137259E	5.5	119
29/08/26	10:11	EOL	raw_123	36.261031N	15.159281E	5.6	117
29/08/26	10:11	SOL	raw_124	36.261031N	15.159281E	5.6	117
29/08/26	11:16	EOL	raw_124	36.255730N	15.155857E	0.2	116
29/08/26	15:21	SOL	raw_125	36.255702N	15.161228E	8.9	116
29/08/26	16:09	EOL	raw_125	36.255702N	15.161228E	0.1	109
29/08/26	16:42	SOL	raw_126	36.151429N	15.114919E	8.5	110
29/08/26	16:59	EOL	raw_126	36.133722N	15.155687E	8.3	123
29/08/26	16:59	SOL	raw_127	36.133722N	15.155687E	8.3	123
29/08/26	17:07	EOL	raw_127	36.137788N	15.158915E	8.5	123
29/08/26	17:07	SOL	raw_128	36.137788N	15.158915E	8.5	123
29/08/26	18:00	EOL	raw_128	36.193610N	15.026790E	6.7	96
29/08/26	18:01	SOL	raw_129	36.195812N	15.024085E	5.3	96
29/08/26	18:08	EOL	raw_129	36.194445N	15.036330E	8.5	98
29/08/26	18:08	SOL	raw_130	36.194445N	15.036330E	8.5	98
29/08/26	18:56	EOL	raw_130	36.1494402N	15.142355E	8.5	120
29/08/26	18:56	SOL	raw_131	36.1494402N	15.142355E	8.5	120
29/08/26	19:04	EOL	raw_131	36.145939N	15.160929E	5.0	124
29/08/26	19.04	SOL	raw_132	36.145939N	15.160929E	5.0	124
29/08/26	19:53	EOL	raw_132	36.198365N	15.038044E	8.4	98
29/08/26	19:53	SOL	raw_133	36.198365N	15.038044E	8.4	98
29/08/26	20:02	EOL	raw_133	36.202063N	15.041445E	7.0	98
29/08/26	20:02	SOL	raw_134	36.202063N	15.041445E	7.0	98
29/08/26	20:50	EOL	raw_134	36.150555N	15.163106E	8.6	125

29/08/26	20:50	SOL	raw_135	36.150555N	15.163106E	8.6	125
29/08/26	20:59	EOL	raw_135	36.154182N	15.166699E	8.0	126
29/08/26	20:59	SOL	raw_136	36.154182N	15.166699E	8.0	126
29/08/26	21:49	EOL	raw_136	36.207504N	15.041232E	8.0	98
29/08/26	21:49	SOL	raw_137	36.207504N	15.041232E	8.0	98
29/08/26	21:55	EOL	raw_137	36.213072N	15.040239E	5.6	99
29/08/26	21:55	SOL	raw_138	36.213072N	15.040239E	5.6	99
29/08/26	22:43	EOL	raw_138	36.161053N	15.162963E	5.7	125
26/08/26	22:43	SOL	raw_139	36.161053N	15.162963E	5.7	125
29/08/26	22:53	EOL	raw_139	36.167703N	15.159528E	6.8	125
29/08/26	22:53	SOL	raw_140	36.167703N	15.159528E	6.8	125
29/08/26	23:39	EOL	raw_140	36.217403N	15.043009E	5.5	98
29/08/26	23:39	SOL	raw_141	36.217403N	15.043009E	5.5	98
29/08/26	23:46	EOL	raw_141	36.221345N	15.046361E	5.4	98
29/08/26	23:46	SOL	raw_142	36.221345N	15.046361E	5.4	98
30/08/26	00:33	EOL	raw_142	36.170918N	15.163742E	8.5	126
30/08/26	00:30	SOL	raw_143	36.170918N	15.163742E	8.5	126
30/08/26	00:43	EOL	raw_143	36.170321N	15.174234E	4.7	128
30/08/26	00:43	SOL	raw_144	36.170321N	15.174234E	4.7	128
30/08/26	01:32	EOL	raw_144	36.221801N	15.054353E	8.1	99
30/08/26	01:36	SOL	raw_145	36.225916N	15.043017E	8.1	96
30/08/26	01:56	EOL	raw_146	36.248287N	14.986937E	6.7	89
30/08/26	02:07	SOL	raw_147	36.251901N	14.984749E	6.7	95
30/08/26	02:15	EOL	raw_147	36.243360N	15.005748E	8.7	78
30/08/26	02:15	SOL	raw_148	36.243360N	15.005748E	8.7	78
30/08/26	02:32	EOL	raw_148	36.227209N	15.050466E	8.5	96
30/08/26	02:32	SOL	raw_149	36.227209N	15.050466E	8.5	96
30/08/26	03:19	EOL	raw_149	36.175921N	15.173798E	8.6	128
30/08/26	03:54	SOL	raw_151	36.210886N	15.109747E	10	111
30/08/26	05:11	EOL	raw_151	36.310615N	14.874242E	10	126
30/08/26	05:11	SOL	raw_152	36.310615N	14.874242E	10	126
30/08/26	05:16	EOL	raw_152	36.310439N	14.882664E	6	125
30/08/26	05:16	SOL	raw_153	36.310439N	14.882664E	10	125
30/08/26	06:05	EOL	raw_153	36.260754N	15.003651E	6.3	74
30/08/26	6:05	SOL	raw_154	36.260754N	15.003651E	6.3	74
30/08/26	6:11	EOL	raw_154	36.266748N	15.014326E	8.0	75
30/08/26	6:11	SOL	raw_155	36.266748N	15.014326E	8.0	75
30/08/26	6:33	EOL	raw_155	36.305504N	15.042146E	5.1	86
30/08/26	6:33	SOL	raw_156	36.305504N	15.042146E	5.1	86
30/08/26	6:39	EOL	raw_156	36.307133N	15.043314E	0.2	86
30/08/26	6:57	SOL	raw_157	36.307097N	15.043453E	1.4	86
30/08/26	7:12	EOL	raw_157	36.304065N	15.042402E	6.5	125
30/08/26	7:12	SOL	raw_158	36.304065N	15.042402E	6.5	125
30/08/26	8:04	EOL	raw_158	36.2362271N	15.191265E	6.3	125
30/08/26	8:04	SOL	raw_159	36.2362271N	15.191265E	6.3	125

30/08/26	8:12	EOL	raw_159	36.222183N	14.189767E	9.3	126
30/08/26	8:12	SOL	raw_160	36.222183N	14.189767E	9.3	126
30/08/26	8:23	EOL	raw_160	36.195653N	15.177452E	7.8	126
30/08/26	8:23	SOL	raw_161	36.195653N	15.177452E	7.8	126
30/08/26	8:32	EOL	raw_161	36.194191N	15.179002E	4.3	126
30/08/26	8:32	SOL	raw_162	36.194191N	15.179002E	4.3	126
30/08/26	10:15	EOL	raw_162	36.320773N	14.880895E	9.2	124
30/08/26	10:15	SOL	raw_163	36.320773N	14.880895E	9.2	124
30/08/26	10:23	EOL	raw_163	36.324764N	14.882386E	6.1	125
30/08/26	10:23	SOL	raw_164	36.324764N	14.882386E	6.1	125
30/08/26	12:37	EOL	raw_165	36.197753N	15.181534E	5.8	126
30/08/26	12:37	SOL	raw_166	36.197753N	15.181534E	5.8	126
30/08/26	12:43	EOL	raw_166	36.201397N	15.182775E	4.5	126
30/08/26	12:43	SOL	raw_167	36.201397N	15.182775E	4.5	126
30/08/26	14:24	EOL	raw_168	36.329838N	14.882921E	9	125
30/08/26	14:24	SOL	raw_169	36.329838N	14.882921E	9	125
30/08/26	14:27	EOL	raw_169	36.332292N	14.886948E	9.9	125
30/08/26	14:27	SOL	raw_170	36.332292N	14.886948E	9.9	125
30/08/26	16:04	EOL	raw_170	36.206548N	15.182072E	8.6	127
30/08/26	16:04	SOL	raw_171	36.206548N	15.182072E	8.6	127
30/08/26	16:08	EOL	raw_171	36.211756N	15.179960E	9.8	125
30/08/26	16:08	SOL	raw_172	36.211756N	15.179960E	9.8	125
30/08/26	17:44	EOL	raw_172	36.336655N	14.888343E	9.1	126
30/08/26	17:48	SOL	raw_173	36.336655N	14.888343E	9.1	126
30/08/26	17:48	EOL	raw_173	36.338859N	14.893149E	10	124
30/08/26	17:48	SOL	raw_174	36.338859N	14.893149E	10	124
30/08/26	19:20	EOL	raw_174	36.216073N	15.180696E	8.2	118
30/08/26	19:20	SOL	raw_175	36.216073N	15.180696E	8.2	118
30/08/26	19:26	EOL	raw_175	36.212984N	15.187049	0.9	127
30/08/26	20:07	SOL	raw_176	36.217534N	15.185937E	5.8	126
30/08/26	21:48	EOL	raw_176	36.322238N	14.896188E	9.6	121
30/08/26	21:48	SOL	raw_177	36.322238N	14.896188E	9.6	121
30/08/26	21:56	EOL	raw_177	36.346569N	14.895194E	8.4	122
30/08/26	21:56	SOL	raw_178	36.346569N	14.895194E	8.4	122
30/08/26	23:32	EOL	raw_178	36.222676N	15.186479E	8.4	126
30/08/26	23:32	SOL	raw_179	36.222676N	15.186479E	8.4	126
30/08/26	23:41	EOL	raw_179	36.224530N	15.192274E	3.9	127
30/08/26	23:41	SOL	raw_180	36.224530N	15.192274E	3.9	127
31/08/26	01:25	EOL	raw_180	36.350551N	14.898547E	6.3	123
31/08/26	01:25	SOL	raw_181	36.350551N	14.898547E	6.3	123
31/08/26	01:33	EOL	raw_181	36.354298N	14.900654E	5.2	114
31/08/26	01:33	SOL	raw_182	36.354298N	14.900654E	5.2	114
31/08/26	03:13	EOL	raw_182	36.226794N	15.198982E	9	128
31/08/26	03:13	SOL	raw_183	36.226794N	15.198982E	9	128
31/08/26	03:17	EOL	raw_183	36.231440N	14.196845E	9.2	126

31/08/26	03:17	SOL	raw_184	36.231440N	14.196845E	9.2	126
31/08/26	05:00	EOL	raw_184	36.361247N	14.896087E	8.4	123
31/08/26	05:00	SOL	raw_185	36.361247N	14.896087E	8.4	123
31/08/26	05:04	EOL	raw_185	36.362167N	14.904518E	9.7	103
31/08/26	05:04	SOL	raw_186	36.362167N	14.904518E	9.7	103
31/08/26	05:50	EOL	raw_186	36.304741N	15.037759E	8	85
31/08/26	05:50	SOL	raw_187	36.304741N	15.037759E	8	85
31/08/26	05:53	EOL	raw_187	36.308256N	15.036258E	10	87
31/08/26	05:53	SOL	raw_188	36.308256N	15.036258E	10	87
31/08/26	06:38	EOL	raw_188	36.369061N	14.900418E	7.8	121
31/08/26	07:18	SOL	raw_189	36.370465N	14.897215E	3.6	122
31/08/26	07:33	EOL	raw_189	36.382199N	14.894063E	8.7	121
31/08/26	07:33	SOL	raw_190	36.382199N	14.894063E	8.7	121
31/08/26	09:17	EOL	raw_190	36.245967N	15.191021E	5.9	124
31/08/26	09:17	SOL	raw_191	36.245967N	15.191021E	5.9	124
31/08/26	09:39	EOL	raw_191	36.271498N	15.193872E	5.8	122
31/08/26	09:39	SOL	raw_192	36.271498N	15.193872E	5.8	122
31/08/26	11:17	EOL	raw_192	36.405965N	14.902158E	9.3	117
31/08/26	11:17	SOL	raw_193	36.405965N	14.902158E	9.3	117
31/08/26	11:27	EOL	raw_193	36.415043N	14.904629E	7.1	115
31/08/26	11:27	SOL	raw_194	36.415043N	14.904629E	7.1	115
31/08/26	11:49	EOL	raw_194	36.461848N	14.956518E	9.5	88
31/08/26	11:49	SOL	raw_195	36.461848N	14.956518E	9.5	88
31/08/26	12:14	EOL	raw_195	36.452219N	14.945390E	1.6	86
31/08/26	13:11	SOL	raw_196	36.452705N	14.943027E	6	86
31/08/26	13:28	EOL	raw_196	36.478970N	14.912080E	5.1	105
31/08/26	13:34	SOL	raw_197	36.480405N	14.918412E	9.6	104
31/08/26	13:59	EOL	raw_197	36.444948N	14.990280E	9,8	99
31/08/26	14:06	SOL	raw_198	36.443908N	14.984813E	9,4	99
31/08/26	14:31	EOL	raw_198	36.476730N	14.915585E	9.3	105
31/08/26	14:36	SOL	raw_199	36.473178N	14.912316E	9.7	107
31/08/26	15:02	EOL	raw_199	36.434841N	14.993296E	8.5	100
31/08/26	15:08	SOL	raw_200	36.428667N	14.985049E	9.1	98
31/08/26	15:40	EOL	raw_200	36.471941N	14.896851E	5	110
31/08/26	15:48	SOL	raw_201	36.469390N	14.892626E	10	112
31/08/26	16:17	EOL	raw_201	36.427155N	14.978176E	8.5	99
31/08/26	16:20	SOL	raw_202	36.425854N	14.972289E	9.1	99
31/08/26	16:50	EOL	raw_202	36.464176N	14.892537E	9.1	113
31/08/26	16:52	SOL	raw_203	36.460485N	14.892484E	9	113
31/08/26	17:18	EOL	raw_203	36.422917N	14.968182E	9	102
31/08/26	17:22	SOL	raw_204	36.420724N	14.963107E	10	103
31/08/26	17:49	EOL	raw_204	36.457652N	14.888477E	8.9	115
31/08/26	17:52	SOL	raw_205	36.451293N	14.891464E	10.7	114
31/08/26	18:16	EOL	raw_205	36.4172 N	14.9608 E	10	105

Annex 3 – Box core and gravity cors sites

Survey: BRIDGES		**Vessel: Gaia Blu**				
Box cores						
Date	**Time UTC**	**Name**		**Latitude (dd)**	**Longitude (dd)**	**Water depth (m)**
27/08	9:20	**BR26_BC_01 ex BC_01**	Bc in Water	36.236113	14.993297	
27/08	9:21		Bc on Bottom	36.236116	14.993352	71
27/08	9:23		Bc on Board	36.236121	14.993380	
27/08	12:58	**BR26_BC_02 ex BC_02**	Bc in Water	36.248160	14.917136	118
27/08	13:05		Bc on Bottom	36.248131	14.917140	118
27/08	13:11		Bc on Board	36.248143	14.917129	188
29/08	06:51	**BR26_BC_03 ex GC_07**	Bc in Water	36.207736	15.135165	118
29/08	06:57		Bc on Bottom	36.207732	15.135170	118
29/08	07:00		Bc on Board	36.207752	15.135163	118
29/08	11:28	**BR26_BC_04 ex GC_11**	Bc in Water	36.255245	15.156297	116
29/08	11:33		Bc on Bottom	36.255272	15.156306	116
29/08	11:40		Bc on Board	36.255260	15.156306	116
31/08	12:32	**BR26_BC_05 ex GC_04**	Bc in Water	36.452231N	14.945666E	86
31/08	12:42		Bc on Bottom	36.452214824	14.945417	86
31/08	12:47		Bc on Board	36.452197291	14.945388	86

Gravity cores						
Date	**Time UTC**	**Name**		**Latitude (dd)**	**Longitude (dd)**	**Water depth (m)**
27/08	14:10	**BR26_GC_01 ex BC_02**	Bc in Water	36.248114	14.997201	118
27/08	14:14		Bc on Bottom	36.248102	14.917223	118
27/08	14:20		Bc on Board	36.248108	14.917239	118
29/08	08:06	**BR26_GC_02 ex GC_07**	Bc in Water	36.208087	15.134879	118
29/08	08:08		Bc on Bottom	36.208089	15.134883	118
29/08	08:11		Bc on Board	36.208106	15.134867	118
29/08	09:13	**BR26_GC_02bis ex GC_07**	Bc in Water	36.208160	15.134968	118
29/08	09:16		Bc on Bottom	36.208160	15.134962	118
29/08	09:24		Bc on Board	36.208153	15.134963	118
29/08	12:32	**BR26_GC_03 ex GC_11**	Bc in Water	36.2553222	15.156364	**117**
29/08	12:42		Bc on Bottom	36.2553213	15.156351	**117**
29/08	12:55		Bc on Board	36.2553219	15.156349	**117**
29/08	13:59	**BR26_GC_04**	Bc in Water	36.2559610	15.155450	**117**
29/08	14:03		Bc on Bottom	36.2559660	15.155481	**117**
29/08	14:21		Bc on Board	36.2559420	15.1554813	**117**