Application for Consent to conduct Marine Scientific Research

Date: 3/12/2019

1. General Information

1.1 Cruise name and/or number: APP CV20024
INTERREG SeaMonitor Survey Glider deployment and ADCP/CTD & Mapping survey

1.2 Sponsoring Institution(s):	
Name:	Marine Institute
Address:	Rinville, Oranmore, Co. Galway H91 R673
Name of Director:	Dr Paul Connolly

1.3 Scientist in charge of the Project:	
Name:	Dr Niall Ó Maoiléidigh
Country:	Ireland
Affiliation:	Marine Institute
Address:	Marine Institute Newport, Co. Mayo, F28
	PF65
Telephone:	00353 87 6296393
Fax:	
Email:	Niall.omaoileidigh@marine.ie
Website (for CV and photo):	

1.4 Entity(ies)/Participant(s) from coast	stal State involved in the planning of the project:
Name:	Ross McGill
Affiliation:	Loughs Agency
Address:	22 Victoria Rd, Londonderry BT47 2AB
Telephone:	028 7134 2100
Fax:	
Email:	Ross.McGill@loughs-agency.org
Website (for CV and photo):	

2. Description of Project

2.1 Nature and objectives of the project:

The Marine Institute was recently successful in securing over €1 million in funding in an INTERREG VA Ireland, N. Ireland and Scotland call resulting the formation of the SeaMonitor project.

The INTERREG VA SeaMonitor project is a novel and comprehensive project focussing on a wide range of issues across the Programme Area (Scotland, Ireland and N. Ireland). It will directly deliver the INTERREG V objective of developing cross-border capacity for the monitoring and management of marine protected areas and species. It will result in a corresponding increase in cross-border monitoring and management capacity. This will facilitate the development and growth of a regional 'blue economy' based on its maritime resources and the alignment of regional activities with the EU's Atlantic Strategy through the

potential of e.g. developing and strengthening the growth of marine tourism, providing management plans and enabling sustainable development to occur in often sensitive environments.

The project will deliver 5 models, 3 management plans/groups and extend the INTERREG VA COMPASS network of buoys from the east coast of the Island of Ireland to the North establishing a physical connection of acoustic receivers between the Island of Ireland and Scotland thus providing a tangible monitoring network to the INTERREG programme. SeaMonitor has been jointly developed by all the partners and will be jointly implemented with partners working together across a range of activities.

SeaMonitor will establish a network of buoys for regional seas, including telemetry and oceanographic monitoring (e.g. for seals, cetaceans and salmonids).

2.2 If designated as part of a larger scale project, then provide the name of the project and the Organisation responsible for coordinating the project:

Led by the Loughs Agency, a cross boarder UK/Ireland body, this s an INTERREG VA EU funded project with 9 partners i.e. Loughs Agency (UK, Ireland), Marine Institute (Ireland), Queens University Belfast (UK), Agri-Food and Biosciences Institute for Northern Ireland (UK), University of Glasgow (UK), University College Cork (Ireland), Galway-Mayo Institute of Technology (Ireland), Ocean Tracking Network (Canada), Dalhousie University (Canada). University of California Davies (USA).

2.3 Relevant previous or future research projects:

INTERREG Compass Project led by the AFBI (UK) is a sister project and INTERREG MARPAMM led by AFBI are associated projects.

2.4 Previous publications relating to the project:

Abecasis, David, Andre Steckenreuter, Jan Reubens, Kim Aarestrup, Josep Alós, Fabio Badalamenti, Lenore Bajona et al. "A review of acoustic telemetry in Europe and the need for a regional aquatic telemetry network." Animal Biotelemetry 6, no. 1 (2018): 12.

3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in Latitude and longitude in decimal degrees, including coordinates of cruise/track/way points/sampling stations). Please provide coordinates in a separate excel spreadsheet.

A total of 108 Acoustic Listening Stations (ALS) are planned to be deployed at different locations across the North Channel from Malin Head to Scotland (Islay) (Main array) to detect the presence of acoustically tagged fish and marine mammals.

The precise location for the main and the Foyle acoustic listening stations are detailed in the end of this document (See appendix, Table 1).

3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical

Areas of the intended work and, as far as practicable, the location and depth of sampling Stations, the tracks of survey lines, and the locations of installations and equipment.



Each flag represents a single acoustic listening station (See section 4.6 for full details).

4. Methods and means to be used

4.1 Particulars of vessel:	
Name:	R.V. Celtic Voyager
Type/Class:	100 A1 Research Vessel, LMC
Nationality (Flag State):	Irish
Identification Number (IMO/Lloyds No.):	9154842
Owner:	Marine Institute
Operator:	P&O Maritime Services
Overall length (meters):	32.45
Maximum draught:	4m
Displacement/Gross Tonnage:	340
Propulsion:	Wärtsilä UD25M5 (626 kW),
Cruising & maximum speed:	<= 10 knots
Call sign:	EIQN
INMARSAT number and method and	GMDSS A class, E-mail. Mini M SAT C and GSM
capability of communication (including emergency	00 353 91 423396 / 00870 763066755 00870-764687325 / 764687326
frequencies):	000,070,100,0207,10100,020
Name of Master:	
Number of Crew:	
Number of Scientists on board:	

4.2 Particulars of Aircraft:

Name:	
Make/Model:	
Nationality (flag State):	
Website for diagram & Specifications:	
Owner:	
Operator:	
Overall Length (meters):	
Propulsion:	
Cruising & Maximum speed:	
Registration No.:	
Call Sign:	
Method and capability of communication	
(including emergency frequencies):	
Name of Pilot:	
Number of crew:	
Number of scientists on board:	
Details of sensor packages:	
Other relevant information:	

4.3 Particulars of Autonomous Underwater	r Vehicle (AUV):
Name:	Teledyne
Manufacturer and make/model:	Teledyne Webb G2
Nationality (Flag State):	Ireland
Website for diagram & Specifications:	http://www.teledynemarine.com/slocum-
	<u>glider</u>
Owner:	Marine Institute
Operator:	Marine Institute
Overall length (meters):	
Displacement/Gross tonnage:	
Cruising & Maximum speed:	
Range/Endurance:	
Method and capability of communication	
(including emergency frequencies):	
Details of sensor packages:	
Other relevant information:	

4.4 other craft in the project, including its use:	

4.5 Particulars of method	ods, full description of	scientific instruments t	to be used (for
fishing gear specify ty	pe and dimension) and	nd location	
Types of samples and Measurements:	Methods to be used:	Instruments to be used:	To be carried out within 12nm (yes or no):
Deployment and removal of scientific instruments	Acoustic telemetry equipment for fish tracking	Vemco's VR2AR	YES and NO. Acoustic receivers and glider will be

Deployment and removal of scientific instruments	Monitoring and removal of acoustic receivers	ROV	deployed within and beyond the 12nm limit.
Oceanographic survey	Oceanography	ADCP/CTD	
Marine habitat survey	Habitat mapping	Side scan	
Tracking	Marine species	Glider	
	tracking		
Bathymetry surveys	Habitat &	Multibeam EM2040	Position of
	bathymetry	and Sub bottom	Acoustic receivers
	mapping	profiler	will be ascertained
			and mapped
			within and beyond
			the 12nm limit

4.6 Indicate nature and quantity of substances to be released into the marine environment:

A bespoke acoustic listening station is needed for fish tracking as detailed in Figure 1. T

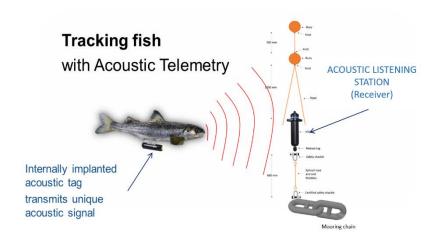


Figure 1: Principles of acoustic tracking for the detection of migrating fish.

In this regard, a total of 108 Acoustic Listening Stations (ALS) are planned to be deployed. After the conclusion of each tracking season in September, acoustic receivers will be recovered from the water by sending an acoustic signal that activates a releasing mechanism allowing the receiver to float to the surface. The mooring chain will be left on the sea bed as sea conditions in the study area are not adequate for a safely removal of the chains.

In this case, a total of 108 units of 2 stud-link iron chain @ 70 Kg/unit= 14,000 Kg will be left on the sea bed.

4.7 Indicate whether drilling will be carried out. If yes, please specify: No drilling will be carried out.

4.8 Indicate whether explosives will be used. If yes, please specify type and trade name,

Chemical content, depth of trade class and stowage, size, depth of detonation, frequency of

Detonation, and position in latitude and longitude:

No explosives will be used.

5. Installations and Equipment

5.1 Details of installations and equipment (including dates of laying, servicing, method and Anticipated timeframe for recover, as far as possible exact locations and depth, and Measurements):

See section 4.6.

Locations of the surveys are the same as those in Table 1 (See appendix).

6. Dates

6.1 Expected dates of first entry into and final departure from the research area by the research vessel and/or other platforms:

Equipment monitoring/ Oceanographic surveys:

Start Date: 28/05/2020 End Date: 05/06/20

Locations of the surveys are the same as those in Table 1 (See appendix).

6.2 Indicate if multiple entries are expected:

Yes, multiple entries are expected on the dates detailed in section 6.1.

7. Port Calls

7.1 Dates and Names of intended ports of call:

Northern Ireland

- -Greencastle harbour
- -Foyle port
- -Malin Head Coast Guard. Radio VHF Channels 16,67,23,85 DSC70
- -Malin Head MRSC.

Scotland

-Glesanda port

7.2 Any special logistical requirements at ports of call:

- Equipment upload at Greencastle harbour.

7.3 Name/Address/Telephone of shipping agent (if available):

5. Farticipation of the representative of the coastal State	3.	Participation of the representative of the coastal State
---	----	--

8.1 Modalities of the participation of the representative of the coastal State in the research
Project:

8.2 Proposed dates and ports for embarkation/disembarkation:

Greencastle Harbour (Donegal County Council, County Donegal) is the preferred option for embarkation and disembarkation. The use of the harbour will be daily from:

- 28th May to 4th June 2020

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should include the expected dates of submission of the data and research results:

Coastal state is a partner in the INTERREG VA project (Loughs Agency is lead, with University of Glasgow and Marine Scotland are on the project Board), so will have access to all information and interim reports during the project

9.2 Anticipated dates of submission to the coastal State of the final report:

Final Report Due in April 2023

9.3 Proposed means for access by coastal State to data (including format) and samples:

Coastal state is a partner in the INTERREG VA project (Loughs Agency is lead, with University of Glasgow and Marine Scotland are on the project Board), so will have direct access to all information and interim reports during the project

9.4 Proposed means to provide coastal State with assessment of data, samples and Research results:

Results will be provided in tabular, database and report format as required. Access to central database for partners including coastal state will be established. Requirement under INTERREG to have data and in some cases samples available post the project.

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples

And research results:

Marine Institute will guarantee that data will be extracted, analysed and categorised after each recovery so data analyses will be ongoing once monitoring starts. One year of data will be modelled at the end of 2020 and the overall dataset by Dec 2021. Results will be generated at 4/5 monthly periods when equipment is recovered to facilitate collaboration with existing projects and to identify significant trends over the duration of the project. All progress will be updated in quarterly reports and summary results delivered when available. Extensive analysis of data will also be delivered when available for quarterly reports but this will be dependent on deployment and retrieval of equipment.

9.6 Proposed means of making results internationally available:

We will produce 8 peer reviewed publications by December 2024. This will be after the programme finishes but due to the length of time in getting the data analysed and going through the peer review process this is a more realistic target than the end of the programme in March 2022.

10. Other permits Submitted

10.1 Indicate other types of coastal state permits anticipated for this research (received or Pending):

11. List of Supporting Documentation

11.1 List of attachments, such as additional forms required by the coastal State, etc.:

Signature:

Contact information of the focal point:

Name: Niall Ó Maoiléidigh

Country: Ireland

Affiliation: Marine Institute

Address: Marine Institute, Newport, Co. Mayo Ireland, F28 PF65

Telephone: 00353 98 42300

Fax:

Email: niall.omaoileidigh@marine.ie

Appendix

Table 1: Coordinates of the main Array between Mailin Head (Northern Ireland) and Portnahaven (Isle of Islay, Scotland) across the North Channel.

3 SeaMonitor_3 Main -7.32039387 55.38221713 62 S. 4 SeaMonitor_4 Main -7.32039387 55.38221713 62 S. 5 SeaMonitor_5 Main -7.30764025 55.3869472 64 S. 6 SeaMonitor_6 Main -7.30657223 55.3869472 64 S. 6 SeaMonitor_7 Main -7.30161477 55.39383855 66 S. 8 SeaMonitor_8 Main -7.29360513 55.39622445 67 S. 9 SeaMonitor_9 Main -7.28636697 55.39939348 68 S. 10 SeaMonitor_10 Main -7.27397061 55.40704169 70 S. 11 SeaMonitor_11 Main -7.27397061 55.40704169 70 S. 12 SeaMonitor_12 Main -7.26846937 55.41121477 71 S. 13 SeaMonitor_13 Main -7.26836937 55.41121477 71 S. 13 SeaMonitor_14 Main -7.26536361 55.41538705 72 S. 14 SeaMonitor_15 Main -7.25013709 55.4360205 74 S. 15 SeaMonitor_16 Main -7.25013709 55.4360205 74 S. 16 SeaMonitor_16 Main -7.24570043 55.42613308 75 S. 17 SeaMonitor_17 Main -7.20956935 55.43881763 77 S. 18 SeaMonitor_19 Main -7.20954385 55.43881763 77 S. 19 SeaMonitor_19 Main -7.20934385 55.43881763 77 S. 19 SeaMonitor_20 Main -7.1954211 55.44579326 79 S. 20 SeaMonitor_21 Main -7.18816026 55.44939234 80 S. 21 SeaMonitor_22 Main -7.18816026 55.44939234 80 S. 22 SeaMonitor_23 Main -7.1854211 55.44579326 79 S. 23 SeaMonitor_24 Main -7.1656129 55.45995485 83 S. 24 SeaMonitor_25 Main -7.18956825 55.46341929 84 S. 25 SeaMonitor_26 Main -7.15956825 55.46341929 84 S. 26 SeaMonitor_27 Main -7.1656129 55.47904978 86 S. 27 SeaMonitor_29 Main -7.1895675 55.47904978 86 S. 28 SeaMonitor_29 Main -7.1656129 55.47904978 86 S. 29 SeaMonitor_20 Main -7.17333368 55.47904978 86 S. 30 SeaMonitor_30 Main -7.17383368 55.4790093 93 S. 31 SeaMonitor_31 Main -7.107461213 55.50503308 96 S. 33 SeaMonitor_33 Main -7.0958795 55.55933149 97 S. 34 SeaMonitor_34 Main -7.0958795 55.55933149 97 S. 35 SeaMonitor_35 Main -7.0958795 55.553318970 98 S. 36 SeaMonitor_36 Main -7.0958765 55.48781441 91 S. 36 SeaMonitor_39 Main -7.00588765 55.548781441 91 S. 37 SeaMonitor_30 Main -7.0058765 55.548781441 91 S. 38 SeaMonitor_30 Main -7.0058765 55.548781441 91 S. 39 SeaMonitor_30 Main -7.0058765 55.548781441 91 S. 30 SeaMonitor_30 Main -7.0058765 55.54878144	Id	name	Array	xcoord ycoord
SeaMonitor_3				
4 SeaMonitor_4 Main -7.30764022 55.3839365 63 SeaMonitor_6 6 SeaMonitor_6 Main -7.30764022 55.38893351 65 SeaMonitor_7 7 SeaMonitor_7 Main -7.30161477 55.39383855 66 SeaMonitor_7 9 SeaMonitor_9 Main -7.29360513 55.39622445 67 SeaMonitor_7 9 SeaMonitor_10 Main -7.279096 55.40247373 69 SeaMonitor_11 10 SeaMonitor_12 Main -7.279096 55.40247373 69 SeaMonitor_12 11 SeaMonitor_12 Main -7.26846937 55.41121477 71 SeaMonitor_12 12 SeaMonitor_14 Main -7.26846937 55.41121477 71 SeaMonitor_14 13 SeaMonitor_14 Main -7.25033709 55.42360205 74 SeaMonitor_14 14 SeaMonitor_15 Main -7.25033709 55.42360205 74 SeaMonitor_14 15 SeaMonitor_15 Main -7.25053878 55.4388136 75	2	SeaMonitor_2	Main	-7.3230723 55.37852407
5 SeaMonitor_5 Main -7.30764022 55.3869472 64 SeaMonitor_6 6 SeaMonitor_7 Main -7.30657223 55.38923351 65 SeaMonitor_6 8 SeaMonitor_8 Main -7.29360513 55.39622445 67 SeaMonitor_6 9 SeaMonitor_10 Main -7.28360513 55.39622445 67 SeaMonitor_10 10 SeaMonitor_10 Main -7.279906 55.40247373 69 SeaMonitor_11 11 SeaMonitor_11 Main -7.279906 55.40247373 69 SeaMonitor_12 12 SeaMonitor_13 Main -7.26253616 55.41538705 72 SeaMonitor_17 13 SeaMonitor_13 Main -7.26535878 55.41528705 72 SeaMonitor_17 14 SeaMonitor_14 Main -7.2563878 55.41538705 72 SeaMonitor_7 15 SeaMonitor_15 Main -7.256704355.426005 74 SeaMonitor_7 16 SeaMonitor_17 Main -7.257035955.435881763 77 SeaMonitor_7 17 Sea	3	SeaMonitor_3	Main	-7.32039387 55.38221713
6 SeaMonitor_6 Main -7.30161477 55.3938855 65 SeaMonitor_61 8 SeaMonitor_7 Main -7.30161477 55.3938855 66 SeaMonitor_61 8 SeaMonitor_9 Main -7.28636697 55.39939348 68 SeaMonitor_61 10 SeaMonitor_11 Main -7.29906 55.40247373 69 SeaMonitor_61 11 SeaMonitor_11 Main -7.26846937 55.41721477 71 SeaMonitor_7.7 13 SeaMonitor_13 Main -7.26846937 55.41121477 71 SeaMonitor_7.7 14 SeaMonitor_14 Main -7.26846937 55.41121477 71 SeaMonitor_7.7 15 SeaMonitor_14 Main -7.26535878 55.412860025 72 SeaMonitor_7.7 16 SeaMonitor_16 Main -7.20157099 55.43860025 74 SeaMonitor_7.7 16 SeaMonitor_18 Main -7.20157099 55.43881763 75 SeaMonitor_7.7 17 SeaMonitor_19 Main -7.21570099 55.43881763 77 SeaMonitor_7.8 18	4	SeaMonitor_4	Main	-7.30848841 55.38393665
7 SeaMonitor_7 Main -7.30161477 55.39383855 66 SeaMonitor_6 9 SeaMonitor_10 Main -7.29360513 55.39622445 67 SeaMonitor_10 10 SeaMonitor_10 Main -7.279096 55.40247373 69 SeaMonitor_60 11 SeaMonitor_11 Main -7.279906 55.40747373 69 SeaMonitor_70 12 SeaMonitor_12 Main -7.26846937 55.41121477 71 SeaMonitor_71 13 SeaMonitor_14 Main -7.26836878 55.41588705 72 SeaMonitor_71 14 SeaMonitor_15 Main -7.2653878 55.41588705 72 SeaMonitor_71 15 SeaMonitor_14 Main -7.25633878 55.41966623 73 SeaMonitor_72 16 SeaMonitor_15 Main -7.25633878 55.41966623 73 SeaMonitor_72 16 SeaMonitor_17 Main -7.2570099 55.43584336 75 SeaMonitor_72 17 SeaMonitor_29 Main -7.2065955 55.43881763 77 SeaMonitor_72 18	5	SeaMonitor_5	Main	-7.30764022 55.3869472
8 SeaMonitor_8 Main -7.2936051355.39622445 67 SeaMonitor_67 9 SeaMonitor_10 Main -7.2863669755.39939348 68 SeaMonitor_61 11 SeaMonitor_11 Main -7.273906 55.40704169 70 SeaMonitor_70 12 SeaMonitor_13 Main -7.28646937 55.41121477 71 SeaMonitor_13 SeaMonitor_13 Main -7.2653616 55.41538705 72 SeaMonitor_72 13 SeaMonitor_14 Main -7.2653616 55.41538705 72 SeaMonitor_72 14 SeaMonitor_14 Main -7.26536878 55.41966623 73 SeaMonitor_72 15 SeaMonitor_16 Main -7.26536878 55.41966623 73 SeaMonitor_72 16 SeaMonitor_16 Main -7.26536878 55.41966623 73 SeaMonitor_72 16 SeaMonitor_18 Main -7.205709955.43584336 75 SeaMonitor_72 16 SeaMonitor_19 Main -7.2073438555.442330 75 SeaMonitor_72 17 SeaMonitor_29 Main	6	SeaMonitor_6	Main	-7.30657223 55.38923351
9 SeaMonitor_10 Main -7.28635697 55.39939348 68 SeaMonitor_69 111 SeaMonitor_11 Main -7.27397061 55.40247373 69 SeaMonitor_69 112 SeaMonitor_11 Main -7.27397061 55.40704169 70 SeaMonitor_70 113 SeaMonitor_12 Main -7.26846937 55.41121477 71 SeaMonitor_71 12 SeaMonitor_13 Main -7.26635878 55.40704169 70 SeaMonitor_71 13 SeaMonitor_14 Main -7.25635878 55.41966623 73 SeaMonitor_73 14 SeaMonitor_15 Main -7.25635878 55.41966623 73 SeaMonitor_73 15 SeaMonitor_16 Main -7.25635878 55.41966623 73 SeaMonitor_73 16 SeaMonitor_17 Main -7.25013709 55.42560205 74 SeaMonitor_73 17 SeaMonitor_17 Main -7.21570099 55.42560205 74 SeaMonitor_75 18 SeaMonitor_18 Main -7.20954935 55.4388136 76 SeaMonitor_75 19 SeaMonitor_19 Main -7.20954935 55.43881763 77 SeaMonitor_78 19 SeaMonitor_19 Main -7.20924385 55.44386754 78 SeaMonitor_78 10 SeaMonitor_20 Main -7.1954211 55.44579326 79 SeaMonitor_78 10 SeaMonitor_21 Main -7.18669739 55.4384136 80 SeaMonitor_80 11 SeaMonitor_22 Main -7.18069739 55.45991234 81 SeaMonitor_80 12 SeaMonitor_23 Main -7.16056129 55.45995485 83 SeaMonitor_80 12 SeaMonitor_24 Main -7.16656129 55.45995485 83 SeaMonitor_80 12 SeaMonitor_25 Main -7.159568215 55.46931929 84 SeaMonitor_80 12 SeaMonitor_27 Main -7.1453027 55.47040798 86 SeaMonitor_80 12 SeaMonitor_27 Main -7.1453027 55.47040798 86 SeaMonitor_80 12 SeaMonitor_28 Main -7.11956885 55.48781441 91 SeaMonitor_80 13 SeaMonitor_30 Main -7.11948385 85.480504 89 SeaMonitor_80 14 SeaMonitor_31 Main -7.107461215 55.50503308 96 SeaMonitor_90 15 SeaMonitor_32 Main -7.107461215 55.50503308 96 SeaMonitor_91 15 SeaMonitor_40 Main -7.0987898 55.48781441 91 SeaMonitor_91 15 SeaMonitor_40 Main -7.0987898 55.548781441 91 SeaMonitor_91 15 SeaMonitor_40 Main -7.0987898 55.533369 100 SeaMonitor_91 16 SeaMonitor_40 Main -7.0987898 55.533369 100 SeaMonitor_91 17 SeaMonitor_40 Main -7.0987898 55.533369 100 SeaMonitor_91 18 SeaMonitor_40 Main -7.0987898 55.533369 100 SeaMonitor_91 18 SeaMonitor_40 Main -7.01893125 55.5533369 100 SeaMonitor_91 18 SeaMonitor_54 Main -6.990203255.553336	7	SeaMonitor_7	Main	-7.30161477 55.39383855
SeaMonitor_10	8	SeaMonitor_8	Main	-7.29360513 55.39622445
111 SeaMonitor_11 Main	9	SeaMonitor_9	Main	-7.28636697 55.39939348
12 SeaMonitor_12 Main	10	SeaMonitor_10	Main	-7.279096 55.40247373
13 SeaMonitor_13 Main -7.26253616 55.41538705 72 SeaMonitor_73 14 Main -7.25635878 55.41966623 73 SeaMonitor_73 15 SeaMonitor_16 Main -7.25635878 55.4260205 74 SeaMonitor_74 16 SeaMonitor_16 Main -7.24570043 55.42613308 75 SeaMonitor_76 18 SeaMonitor_18 Main -7.2056935 55.43881763 77 SeaMonitor_77 19 SeaMonitor_19 Main -7.20234385 55.442597526 79 SeaMonitor_77 20 SeaMonitor_21 Main -7.1994211 55.44579326 79 SeaMonitor_70 21 SeaMonitor_21 Main -7.18816026 55.445939234 80 SeaMonitor_80 22 SeaMonitor_20 Main -7.18816026 55.445939234 81 SeaMonitor_80 23 SeaMonitor_24 Main -7.15956825 54.4593705 82 SeaMonitor_80 24 SeaMonitor_3 Main -7.15956825 55.46341929 84 SeaMonitor_80 25 SeaMonitor_3	11	SeaMonitor_11	Main	-7.27397061 55.40704169
144 SeaMonitor_14 Main -7.25635878 55.41966623 73 SeaMonitor_73 15 SeaMonitor_15 Main -7.25635878 55.41966623 74 SeaMonitor_74 16 SeaMonitor_16 Main -7.24570043 55.42613308 75 SeaMonitor_75 17 SeaMonitor_17 Main -7.21570099 55.43584336 76 SeaMonitor_75 18 SeaMonitor_19 Main -7.2057099 55.43584336 76 SeaMonitor_77 19 SeaMonitor_19 Main -7.2057099 55.43584336 77 SeaMonitor_78 19 SeaMonitor_19 Main -7.2034385 55.44236754 78 SeaMonitor_78 10 SeaMonitor_20 Main -7.1954211 55.44579326 79 SeaMonitor_78 11 SeaMonitor_21 Main -7.188160265 55.444393234 80 SeaMonitor_80 12 SeaMonitor_22 Main -7.188160265 55.44939234 80 SeaMonitor_80 12 SeaMonitor_23 Main -7.18069739 55.45291234 81 SeaMonitor_81 12 SeaMonitor_23 Main -7.18069739 55.45291234 81 SeaMonitor_81 12 SeaMonitor_24 Main -7.16566129 55.4595485 83 SeaMonitor_81 12 SeaMonitor_25 Main -7.15956825 55.46341929 84 SeaMonitor_84 12 SeaMonitor_26 Main -7.15956825 55.46341929 84 SeaMonitor_84 12 SeaMonitor_26 Main -7.15244227 55.46688465 85 SeaMonitor_86 12 SeaMonitor_27 Main -7.1453027 55.47040798 86 SeaMonitor_88 12 SeaMonitor_28 Main -7.13833368 55.47382419 87 SeaMonitor_88 13 SeaMonitor_30 Main -7.12468358 55.480504 89 SeaMonitor_88 14 SeaMonitor_30 Main -7.12468358 55.480504 89 SeaMonitor_88 15 SeaMonitor_31 Main -7.11713897 55.48141116 90 SeaMonitor_91 15 SeaMonitor_31 Main -7.1027042155.49127825 92 SeaMonitor_92 15 SeaMonitor_33 Main -7.1027042155.49127825 92 SeaMonitor_93 16 SeaMonitor_34 Main -7.0958765 55.48781441 91 SeaMonitor_91 17 SeaMonitor_93 Main -7.09578498 55.5803308 96 SeaMonitor_93 18 SeaMonitor_30 Main -7.00588985 55.582912132 101 SeaMonitor_94 18 SeaMonitor_30 Main -7.0648286 55.5189706 98 SeaMonitor_90 SeaMo	12	SeaMonitor_12	Main	-7.26846937 55.41121477
15 SeaMonitor_15 Main	13	SeaMonitor_13	Main	-7.26253616 55.41538705
166 SeaMonitor_16 Main -7.24570043 55.42613308 75 SeaMonitor_75 SeaMonitor_17 Main -7.21570099 55.43584336 76 SeaMonitor_76 SeaMonitor_76 Main -7.20234385 55.43881763 77 SeaMonitor_78 SeaMonitor_19 Main -7.20234385 55.43881763 77 SeaMonitor_78 SeaMonitor_20 Main -7.18816026 55.44939234 80 SeaMonitor_80 SeaMonitor_20 Main -7.18816026 55.44939234 80 SeaMonitor_81 SeaMonitor_22 Main -7.18816026 55.44939234 81 SeaMonitor_81 SeaMonitor_22 Main -7.18069739 55.45291234 81 SeaMonitor_81 SeaMonitor_23 Main -7.16565129 55.45995485 83 SeaMonitor_82 SeaMonitor_25 Main -7.1595825 55.46381929 84 SeaMonitor_82 SeaMonitor_25 Main -7.1595825 55.46688465 85 SeaMonitor_84 SeaMonitor_27 Main -7.1453027 55.47040798 86 SeaMonitor_85 SeaMonitor_86 SeaMonitor_87 SeaMonitor_88 SeaMonitor_89 SeaMonitor_89 SeaMonitor_89 SeaMonitor_89 Main -7.12468358 55.47820923 88 SeaMonitor_89 SeaMonitor_89 SeaMonitor_30 Main -7.12468358 55.48781441 91 SeaMonitor_89 SeaMonitor_30 Main -7.10987665 55.48781441 91 SeaMonitor_90 SeaMonitor_30 Main -7.10987665 55.48781441 91 SeaMonitor_90 SeaMonitor_30 Main -7.10987665 55.48781441 91 SeaMonitor_90 SeaMonitor_90 SeaMonitor_30 Main -7.10987665 55.48781441 91 SeaMonitor_90	14	SeaMonitor_14	Main	-7.25635878 55.41966623
SeaMonitor_17	L5	SeaMonitor_15	Main	-7.25013709 55.42360205
18 SeaMonitor_18 Main -7.20965935 55.43881763 77 SeaMonitor_77 19 SeaMonitor_19 Main -7.20234385 55.44236754 78 SeaMonitor_78 20 SeaMonitor_21 Main -7.18816006 55.445393234 80 SeaMonitor_80 21 SeaMonitor_22 Main -7.18816006 55.44939234 80 SeaMonitor_80 22 SeaMonitor_22 Main -7.18816006 55.44939234 81 SeaMonitor_81 23 SeaMonitor_22 Main -7.1656129 55.465705 82 SeaMonitor_81 24 SeaMonitor_24 Main -7.1656129 55.45995485 83 SeaMonitor_84 25 SeaMonitor_25 Main -7.15244227 55.46688465 85 SeaMonitor_84 26 SeaMonitor_27 Main -7.1453027 55.47040798 86 SeaMonitor_86 27 SeaMonitor_29 Main -7.1433027 55.47720923 88 SeaMonitor_87 28 SeaMonitor_30 Main -7.12468358 55.480504 89 SeaMonitor_80 29 <td>16</td> <td>SeaMonitor_16</td> <td>Main</td> <td>-7.24570043 55.42613308</td>	16	SeaMonitor_16	Main	-7.24570043 55.42613308
9 SeaMonitor_19 Main	7	SeaMonitor_17	Main	-7.21570099 55.43584336
20 SeaMonitor_20 Main -7.1954211 55.44579326 79 SeaMonitor_79 M 21 SeaMonitor_21 Main -7.18816026 55.44939234 80 SeaMonitor_80 M 22 SeaMonitor_22 Main -7.178069739 55.45291234 81 SeaMonitor_81 M 23 SeaMonitor_23 Main -7.17353131 55.45637705 82 SeaMonitor_82 M 24 SeaMonitor_24 Main -7.16565129 55.45995485 83 SeaMonitor_82 M 25 SeaMonitor_25 Main -7.16565129 55.46361299 84 SeaMonitor_83 M 26 SeaMonitor_26 Main -7.15956825 55.46341299 84 SeaMonitor_85 M 27 SeaMonitor_27 Main -7.15948225 5.46364199 86 SeaMonitor_86 M 28 SeaMonitor_27 Main -7.1453027 55.47040798 86 SeaMonitor_86 M 29 SeaMonitor_29 Main -7.13139261 55.47720923 88 SeaMonitor_88 M 29 SeaMonitor_30 Main -7.12468385 55.4854191 87 SeaMonitor_89 M 30 SeaMonitor_31 Main -7.12468385 55.4854191 87 SeaMonitor_89 M 31 SeaMonitor_31 Main -7.10785765 55.48784141 91 SeaMonitor_90 M 32 SeaMonitor_32 Main -7.10985765 55.48784141 91 SeaMonitor_91 M 33 SeaMonitor_33 Main -7.10270421 55.49127825 92 SeaMonitor_91 M 34 SeaMonitor_35 Main -7.0987697 55.49816685 94 SeaMonitor_92 M 35 SeaMonitor_36 Main -7.0987697 55.49816685 94 SeaMonitor_94 M 36 SeaMonitor_37 Main -7.09878498 55.49470093 93 SeaMonitor_95 M 37 SeaMonitor_38 Main -7.09878498 55.49470093 93 SeaMonitor_95 M 38 SeaMonitor_38 Main -7.09878498 55.4950033 93 SeaMonitor_96 M 39 SeaMonitor_39 Main -7.08876977 55.49816685 94 SeaMonitor_96 M 39 SeaMonitor_39 Main -7.06759602 55.50837469 97 SeaMonitor_99 M 30 SeaMonitor_30 Main -7.06759602 55.50837469 97 SeaMonitor_99 M 30 SeaMonitor_41 Main -7.06759602 55.50837469 97 SeaMonitor_99 M 30 SeaMonitor_44 Main -7.06759602 55.50837469 97 SeaMonitor_90 M 31 SeaMonitor_44 Main -7.06759602 55.50837469 97 SeaMonitor_100 M 32 SeaMonitor_44 Main -7.09322566 55.52192132 101 SeaMonitor_100 M 33 SeaMonitor_45 Main -7.09322566 55.52192132 101 SeaMonitor_100 M 34 SeaMonitor_46 Main -7.09322566 55.52331765 104 SeaMonitor_100 M 34 SeaMonitor_50 Main -6.99702021 55.548636293 108 SeaMonitor_100 M 35 SeaMonitor_50 Main -6.99702021 55.548636293 108 SeaMonitor_100 M 36 SeaMonitor_50 Main -6.	18	SeaMonitor_18	Main	-7.20965935 55.43881763
21 SeaMonitor_21 Main -7.18816026 55.44939234 80 SeaMonitor_80 Microscopy 22 SeaMonitor_22 Main -7.18069739 55.45291234 81 SeaMonitor_81 Microscopy 24 SeaMonitor_24 Main -7.16556129 55.45697565 82 SeaMonitor_82 Microscopy 25 SeaMonitor_25 Main -7.1595313155.45638465 83 SeaMonitor_83 Microscopy 26 SeaMonitor_26 Main -7.159421275.55.46688465 85 SeaMonitor_86 Microscopy 27 SeaMonitor_27 Main -7.138333368 55.47382419 87 SeaMonitor_86 Microscopy 28 SeaMonitor_28 Main -7.13833368 55.47382419 87 SeaMonitor_86 Microscopy 29 SeaMonitor_30 Main -7.138333368 55.47382419 87 SeaMonitor_88 Microscopy 29 SeaMonitor_30 Main -7.13833368 55.47382419116 89 SeaMonitor_80 Microscopy 30 SeaMonitor_31 Main -7.117133897 55.48419116	19	SeaMonitor_19	Main	-7.20234385 55.44236754
22 SeaMonitor_22 Main -7.18069739 55.45291234 81 SeaMonitor_81 Michael 23 SeaMonitor_23 Main -7.17553131 55.45637705 82 SeaMonitor_82 Michael 24 SeaMonitor_25 Main -7.16656129 55.45995485 83 SeaMonitor_83 Michael 25 SeaMonitor_26 Main -7.1526825 55.46341929 84 SeaMonitor_84 Michael 26 SeaMonitor_27 Main -7.125284227 55.46688465 85 SeaMonitor_84 Michael 27 SeaMonitor_27 Main -7.1343027 55.47040798 86 SeaMonitor_86 Michael 28 SeaMonitor_29 Main -7.13139261 55.47720923 88 SeaMonitor_88 Michael 29 SeaMonitor_30 Main -7.12468358 55.480504 89 SeaMonitor_88 Michael 30 SeaMonitor_31 Main -7.10798765555.48781441 91 SeaMonitor_90 Michael 40 SeaMonitor_33 Main -7.109578498 55.49470093 93 SeaMonitor	20	SeaMonitor_20	Main	-7.1954211 55.44579326
23 SeaMonitor_23 Main -7.1735313155.45637705 82 SeaMonitor_82 MiseaMonitor_24 Main -7.16566129.55.45995485 83 SeaMonitor_83 MiseaMonitor_25 Main -7.16566129.55.45995485 83 SeaMonitor_84 MiseaMonitor_26 Main -7.15956825.55.46341929 84 SeaMonitor_85 MiseaMonitor_27 Main -7.15244227.55.46688465 85 SeaMonitor_85 MiseaMonitor_27 Main -7.1453027.55.47040798 86 SeaMonitor_86 MiseaMonitor_28 Main -7.13833368.55.47382419 87 SeaMonitor_87 MiseaMonitor_29 Main -7.13433261.55.47720923 88 SeaMonitor_88 MiseaMonitor_30 Main -7.12468358.54.7382419 87 SeaMonitor_88 MiseaMonitor_30 Main -7.11468358.55.47720923 88 SeaMonitor_89 MiseaMonitor_30 Main -7.11468358.55.47820419 90 SeaMonitor_89 MiseaMonitor_30 Main -7.11468358.55.47820419116 90 SeaMonitor_90 MiseaMonitor_31 Main -7.10270421.55.49127825 92 SeaMonitor_90 MiseaMonitor_91 MiseaMonitor_33 Main -7.10270421.55.49127825 92 SeaMonitor_91 MiseaMonitor_91 MiseaMonitor_33 Main -7.09578498.55.49470093 93 SeaMonitor_91 MiseaMonitor_34 Main -7.08876977.55.49816685 94 SeaMonitor_94 MiseaMonitor_36 Main -7.08876977.55.49816685 94 SeaMonitor_95 MiseaMonitor_37 Main -7.06759602.55.0837469 95 SeaMonitor_95 MiseaMonitor_37 Main -7.06759602.55.0837469 97 SeaMonitor_96 MiseaMonitor_96 MiseaMonitor_40 Main -7.0639205.55.0837469 97 SeaMonitor_98 MiseaMonitor_40 Main -7.0639205.55.0837469 97 SeaMonitor_99 MiseaMonitor_40 Main -7.0639205.55.50837469 97 SeaMonitor_99 MiseaMonitor_40 Main -7.0639205.55.50837469 97 SeaMonitor_90 MiseaMonitor_40 Main -7.0639205.55.50837469 97 SeaMonitor_90 MiseaMonitor_40 Main -7.03228589.55.5533365 100 SeaMonitor_100 MiseaMonitor_40 Main -7.03228589.55.5533365 100 SeaMonitor_101 MiseaMonitor_40 Main -7.03228589.55.5533365 100 SeaMonitor_101 MiseaMonitor_40 Main -7.03202506.55.52192132 101 SeaMonitor_101 MiseaMonitor_40 Main -7.03202506.55.52192132 101 SeaMonitor_101 MiseaMonitor_40 Main -7.03202506.55.52192132 101 SeaMonitor_103 MiseaMonitor_55 Main -6.997802032.55.54636293 108 SeaMonitor_104 MiseaMonitor_55 Main -6.997802032.55.54636293 108 SeaMonitor_55 Main -6.	21	SeaMonitor_21	Main	-7.18816026 55.44939234
SeaMonitor_24 Main	22	SeaMonitor_22	Main	-7.18069739 55.45291234
25 SeaMonitor_25 Main -7.15956825 55.46341929 84 SeaMonitor_84 Mic 26 SeaMonitor_26 Main -7.15244227 55.46688465 85 SeaMonitor_85 Mic 27 SeaMonitor_27 Main -7.1453027 55.47040798 86 SeaMonitor_86 Mic 28 SeaMonitor_28 Main -7.1333368 55.47382419 87 SeaMonitor_87 Mic 29 SeaMonitor_29 Main -7.13139261 55.47720923 88 SeaMonitor_88 Mic 30 SeaMonitor_31 Main -7.12468388 55.480504 89 SeaMonitor_90 Mic 31 SeaMonitor_31 Main -7.10985765 55.48781441 91 SeaMonitor_90 Mic 32 SeaMonitor_32 Main -7.10985765 55.48781441 91 SeaMonitor_91 Mic 33 SeaMonitor_34 Main -7.109778498 55.49470093 93 SeaMonitor_92 Mic 34 SeaMonitor_35 Main -7.08141648 55.50165898 95 SeaMonitor_93 Mic <td></td> <td></td> <td>Main</td> <td>-7.17353131 55.45637705</td>			Main	-7.17353131 55.45637705
26 SeaMonitor_26 Main -7.15244227 55.46688465 85 SeaMonitor_85 Min 27 SeaMonitor_27 Main -7.1453027 55.47040798 86 SeaMonitor_86 Min 28 SeaMonitor_28 Main -7.13833368 55.47382419 87 SeaMonitor_87 Min 29 SeaMonitor_29 Main -7.12468358 55.4870923 88 SeaMonitor_89 Min 30 SeaMonitor_31 Main -7.11713897 55.48419116 90 SeaMonitor_90 Min 31 SeaMonitor_32 Main -7.10270421 55.49127825 92 SeaMonitor_91 Min 32 SeaMonitor_33 Main -7.10270421 55.49127825 92 SeaMonitor_92 Min 33 SeaMonitor_34 Main -7.087578498 55.49470093 93 SeaMonitor_92 Min 34 SeaMonitor_35 Main -7.0876977 55.49816685 94 SeaMonitor_94 Min 36 SeaMonitor_36 Main -7.07461213 55.50503308 95 SeaMonitor_94 Min </td <td>24</td> <td>SeaMonitor_24</td> <td>Main</td> <td>-7.16656129 55.45995485</td>	24	SeaMonitor_24	Main	-7.16656129 55.45995485
27 SeaMonitor_27 Main -7.1453027 55.47040798 86 SeaMonitor_86 Main 28 SeaMonitor_28 Main -7.13833368 55.47382419 87 SeaMonitor_87 Min 29 SeaMonitor_29 Main -7.13139261 55.47720923 88 SeaMonitor_89 Min 30 SeaMonitor_30 Main -7.12468358 55.480504 89 SeaMonitor_89 Min 31 SeaMonitor_31 Main -7.10985765 55.48781441 91 SeaMonitor_90 Min 32 SeaMonitor_32 Main -7.10270421 55.49127825 92 SeaMonitor_91 Min 33 SeaMonitor_34 Main -7.09578498 55.49470093 93 SeaMonitor_92 Min 34 SeaMonitor_35 Main -7.08876977 55.49816685 94 SeaMonitor_93 Min 35 SeaMonitor_36 Main -7.08141648 55.50165898 95 SeaMonitor_95 Min 36 SeaMonitor_38 Main -7.06759602 55.50837469 97 SeaMonitor_97 <t< td=""><td>25</td><td>SeaMonitor_25</td><td>Main</td><td>-7.15956825 55.46341929</td></t<>	25	SeaMonitor_25	Main	-7.15956825 55.46341929
28 SeaMonitor_28 Main -7.13833368 55.47382419 87 SeaMonitor_87 Main 29 SeaMonitor_29 Main -7.13139261 55.47720923 88 SeaMonitor_88 Mil 30 SeaMonitor_30 Main -7.12468358 55.480504 89 SeaMonitor_89 Mil 31 SeaMonitor_31 Main -7.11713897 55.48419116 90 SeaMonitor_90 Mil 32 SeaMonitor_32 Main -7.10270421 55.49127825 92 SeaMonitor_91 Mil 33 SeaMonitor_33 Main -7.10270421 55.49127825 92 SeaMonitor_92 Mil 34 SeaMonitor_34 Main -7.09578498 55.49470093 93 SeaMonitor_93 Mil 35 SeaMonitor_36 Main -7.08141648 55.50165898 94 SeaMonitor_94 Mil 36 SeaMonitor_37 Main -7.07461213 55.50503308 96 SeaMonitor_96 Mil 37 SeaMonitor_38 Main -7.06759602 55.0837469 97 SeaMonitor_97 Mil </td <td>26</td> <td>SeaMonitor_26</td> <td>Main</td> <td>-7.15244227 55.46688465</td>	26	SeaMonitor_26	Main	-7.15244227 55.46688465
29 SeaMonitor_29 Main -7.13139261 55.47720923 88 SeaMonitor_88 Mis 30 SeaMonitor_30 Main -7.12468358 55.480504 89 SeaMonitor_89 Mis 31 SeaMonitor_31 Main -7.11713897 55.48419116 90 SeaMonitor_90 Mis 32 SeaMonitor_32 Main -7.10985765 55.48781441 91 SeaMonitor_91 Mis 33 SeaMonitor_34 Main -7.09578498 55.49470093 93 SeaMonitor_92 Mis 34 SeaMonitor_35 Main -7.08876977 55.49816685 94 SeaMonitor_93 Mis 36 SeaMonitor_36 Main -7.08141648 55.50165898 95 SeaMonitor_95 Mis 37 SeaMonitor_37 Main -7.07461213 55.50503308 96 SeaMonitor_96 Mis 38 SeaMonitor_38 Main -7.06759602 55.50837469 97 SeaMonitor_96 Mis 39 SeaMonitor_39 Main -7.056048286 55.51189706 98 SeaMonitor_96 Mis <	27	SeaMonitor_27	Main	-7.1453027 55.47040798
SeaMonitor_30 Main -7.12468358 55.480504 89 SeaMonitor_89 Min SeaMonitor_31 Main -7.11713897 55.48419116 90 SeaMonitor_90 Min SeaMonitor_31 Main -7.10985765 55.48781441 91 SeaMonitor_91 Min SeaMonitor_33 Main -7.10270421 55.49127825 92 SeaMonitor_92 Min SeaMonitor_34 Main -7.09578498 55.49470093 93 SeaMonitor_93 Min SeaMonitor_35 Main -7.08876977 55.49816685 94 SeaMonitor_94 Min SeaMonitor_36 Main -7.08141648 55.50165898 95 SeaMonitor_95 Min SeaMonitor_37 Main -7.07461213 55.50503308 96 SeaMonitor_96 Min SeaMonitor_38 Main -7.0679602 55.50837469 97 SeaMonitor_97 Min SeaMonitor_39 Main -7.06048286 55.51189706 98 SeaMonitor_98 Min SeaMonitor_40 Main -7.05334282 55.51533565 99 SeaMonitor_99 Min SeaMonitor_41 Main -7.04634271 55.51867336 100 SeaMonitor_100 Min SeaMonitor_42 Main -7.03922506 55.52192132 101 SeaMonitor_101 Min SeaMonitor_44 Main -7.02509545 55.5289419 103 SeaMonitor_102 Min SeaMonitor_45 Main -7.01808723 55.53231765 104 SeaMonitor_104 Min SeaMonitor_46 Main -7.01808723 55.53231765 104 SeaMonitor_105 Min SeaMonitor_47 Main -7.00389832 55.53213897 106 SeaMonitor_105 Min SeaMonitor_49 Main -6.997020915 55.54283203 107 SeaMonitor_107 Min SeaMonitor_50 Main -6.998288718 55.553313897 106 SeaMonitor_107 Min -6.998288718 55.553313897 106 SeaMonitor_108 Min -6.998288718 55.553313897 106 SeaMonitor_107 Min -6.998288718 55.553313897 106 SeaMonitor_108 Min -6.998288718 55.553313897 106 SeaMonitor_108 Min -6.998289718 55.553313897 106 SeaMonitor_50 Min -6.998289718 55.553313897 106 SeaMonitor_50 Min -6.99828971	28	SeaMonitor_28	Main	-7.13833368 55.47382419
31 SeaMonitor_31 Main -7.11713897 55.48419116 90 SeaMonitor_90 Main 32 SeaMonitor_32 Main -7.10985765 55.48781441 91 SeaMonitor_91 Min 33 SeaMonitor_34 Main -7.09578498 55.49470093 93 SeaMonitor_92 Min 34 SeaMonitor_35 Main -7.08876977 55.49816685 94 SeaMonitor_94 Min 36 SeaMonitor_36 Main -7.08141648 55.50165898 95 SeaMonitor_95 Min 37 SeaMonitor_37 Main -7.07461213 55.50503308 96 SeaMonitor_96 Min 38 SeaMonitor_38 Main -7.06759602 55.50837469 97 SeaMonitor_96 Min 40 SeaMonitor_39 Main -7.06759602 55.50837469 97 SeaMonitor_98 Min 40 SeaMonitor_40 Main -7.05334282 55.51189706 98 SeaMonitor_98 Min 41 SeaMonitor_41 Main -7.04634271 55.51867336 100 SeaMonitor_100 Min	29	_	Main	-7.13139261 55.47720923
32 SeaMonitor 32 Main -7.10985765 55.48781441 91 SeaMonitor_91 Mais 33 SeaMonitor 33 Main -7.10270421 55.49127825 92 SeaMonitor_92 Mais 34 SeaMonitor 34 Main -7.08876977 55.49816685 94 SeaMonitor_94 Mais 35 SeaMonitor 36 Main -7.08876977 55.49816685 94 SeaMonitor_94 Mais 36 SeaMonitor 36 Main -7.08876977 55.49816685 94 SeaMonitor_94 Mais 37 SeaMonitor 37 Main -7.07461213 55.50503308 96 SeaMonitor_96 Mais 38 SeaMonitor 38 Main -7.06759602 55.50837469 97 SeaMonitor_97 Mais 39 SeaMonitor 39 Main -7.06048286 55.51189706 98 SeaMonitor_98 Mais 40 SeaMonitor 40 Main -7.0634282 55.51533565 99 SeaMonitor_98 Mais 41 SeaMonitor 41 Main -7.03228589 55.52533269 100 SeaMonitor_100 Mais 42 SeaMonitor 40 Main -7.013228589 55.52533189 102 SeaMonitor_10	30	_	Main	-7.12468358 55.480504
SeaMonitor_33 Main -7.10270421 55.49127825 92 SeaMonitor_92 Mis SeaMonitor_34 Main -7.09578498 55.49470093 93 SeaMonitor_93 Mis SeaMonitor_35 Main -7.08876977 55.49816685 94 SeaMonitor_94 Mis SeaMonitor_36 Main -7.08141648 55.50165898 95 SeaMonitor_95 Mis SeaMonitor_37 Main -7.07461213 55.50503308 96 SeaMonitor_95 Mis SeaMonitor_38 Main -7.06759602 55.50837469 97 SeaMonitor_97 Mis SeaMonitor_98 Min -7.06048286 55.51189706 98 SeaMonitor_97 Mis SeaMonitor_40 Main -7.06048286 55.51189706 98 SeaMonitor_99 Mis SeaMonitor_41 Main -7.04634271 55.51867336 100 SeaMonitor_99 Mis SeaMonitor_42 Main -7.0322506 55.52192132 101 SeaMonitor_100 Mis SeaMonitor_44 Main -7.03228589 55.52533269 102 SeaMonitor_101 Mis SeaMonitor_44 Main -7.0328589 55.52533269 102 SeaMonitor_102 Mis SeaMonitor_45 Main -7.01808723 55.53231765 104 SeaMonitor_103 Mis SeaMonitor_46 Main -7.0193116 55.53569024 105 SeaMonitor_104 Mis SeaMonitor_47 Main -7.0193116 55.53569024 105 SeaMonitor_105 Mis SeaMonitor_50 Main -6.99702021 55.54283203 107 SeaMonitor_106 Mis SeaMonitor_51 Main -6.99702032 55.54636293 108 SeaMonitor_107 Mis SeaMonitor_53 Main -6.9758587 55.5536251 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800873 55.52800875 56.52	31	_		-7.11713897 55.48419116
34 SeaMonitor_34 Main -7.09578498 55.49470093 93 SeaMonitor_93 Main 35 SeaMonitor_35 Main -7.08876977 55.49816685 94 SeaMonitor_94 Main 36 SeaMonitor_36 Main -7.08141648 55.50165898 95 SeaMonitor_95 Main 37 SeaMonitor_37 Main -7.07461213 55.50503308 96 SeaMonitor_96 Main 38 SeaMonitor_38 Main -7.06759602 55.50837469 97 SeaMonitor_97 Main 39 SeaMonitor_39 Main -7.06048286 55.51189706 98 SeaMonitor_98 Main 40 SeaMonitor_40 Main -7.05334282 55.51533565 99 SeaMonitor_99 Main 41 SeaMonitor_41 Main -7.03922506 55.52192132 101 SeaMonitor_100 Main 42 SeaMonitor_42 Main -7.03228589 55.52333269 102 SeaMonitor_101 Main 44 SeaMonitor_44 Main -7.01808723 55.53231765 104 SeaMonitor_102 <t< td=""><td>32</td><td>SeaMonitor_32</td><td>Main</td><td>-7.10985765 55.48781441</td></t<>	32	SeaMonitor_32	Main	-7.10985765 55.48781441
35 SeaMonitor_35 Main -7.08876977 55.49816685 94 SeaMonitor_94 Main 36 SeaMonitor_36 Main -7.08141648 55.50165898 95 SeaMonitor_95 Main 37 SeaMonitor_37 Main -7.07461213 55.50503308 96 SeaMonitor_96 Min 38 SeaMonitor_38 Main -7.067461213 55.50503308 96 SeaMonitor_96 Min 39 SeaMonitor_39 Main -7.06048286 55.51189706 98 SeaMonitor_98 Min 40 SeaMonitor_40 Main -7.06048286 55.51189706 98 SeaMonitor_99 Min 41 SeaMonitor_40 Main -7.0648271 55.51867336 100 SeaMonitor_99 Min 41 SeaMonitor_41 Main -7.03228589 55.52533269 102 SeaMonitor_100 Min 43 SeaMonitor_43 Main -7.03228589 55.52533269 102 SeaMonitor_102 Min 44 SeaMonitor_44 Main -7.01808725 55.5289419 103 SeaMonitor_102 Min </td <td>33</td> <td>_</td> <td></td> <td></td>	33	_		
36 SeaMonitor_36 Main -7.08141648 55.50165898 95 SeaMonitor_95 Main 37 SeaMonitor_37 Main -7.07461213 55.50503308 96 SeaMonitor_96 Main 38 SeaMonitor_38 Main -7.06759602 55.50837469 97 SeaMonitor_97 Main 40 SeaMonitor_40 Main -7.06048286 55.51189706 98 SeaMonitor_98 Main 40 SeaMonitor_40 Main -7.04634271 55.51867336 100 SeaMonitor_99 Main 41 SeaMonitor_41 Main -7.04634271 55.51867336 100 SeaMonitor_99 Main 42 SeaMonitor_42 Main -7.04634271 55.51867336 100 SeaMonitor_100 Main 43 SeaMonitor_43 Main -7.03228589 55.52533269 102 SeaMonitor_101 Main 44 SeaMonitor_43 Main -7.02509545 55.5289419 103 SeaMonitor_102 Main 45 SeaMonitor_45 Main -7.01808735.553231765 104 SeaMonitor_103 <	34	_	Main	-7.09578498 55.49470093
37 SeaMonitor_37 Main -7.07461213 55.50503308 96 SeaMonitor_96 Main 38 SeaMonitor_38 Main -7.06759602 55.50837469 97 SeaMonitor_97 Main 40 SeaMonitor_40 Main -7.06048286 55.51189706 98 SeaMonitor_98 Main 41 SeaMonitor_41 Main -7.04634271 55.51867336 100 SeaMonitor_100 Main 42 SeaMonitor_42 Main -7.04634271 55.51867336 100 SeaMonitor_100 Main 43 SeaMonitor_43 Main -7.03922506 55.52192132 101 SeaMonitor_101 Main 44 SeaMonitor_43 Main -7.03228589 55.52533269 102 SeaMonitor_102 Main 45 SeaMonitor_44 Main -7.02509545 55.5289419 103 SeaMonitor_103 Main 45 SeaMonitor_45 Main -7.01093116 55.53569024 105 SeaMonitor_104 Main 47 SeaMonitor_47 Main -7.00389832 55.542836293 106 SeaMonitor_107	35	_		
38 SeaMonitor_38 Main -7.06759602 55.50837469 97 SeaMonitor_97 Main 39 SeaMonitor_39 Main -7.06048286 55.51189706 98 SeaMonitor_98 Main 40 SeaMonitor_40 Main -7.05334282 55.51533565 99 SeaMonitor_99 Main 41 SeaMonitor_41 Main -7.04634271 55.51867336 100 SeaMonitor_100 Main 42 SeaMonitor_42 Main -7.03922506 55.52192132 101 SeaMonitor_101 Main 43 SeaMonitor_43 Main -7.03228589 55.52533269 102 SeaMonitor_102 Main 44 SeaMonitor_44 Main -7.02509545 55.5289419 103 SeaMonitor_103 Main 45 SeaMonitor_45 Main -7.01808723 55.53231765 104 SeaMonitor_104 Main 46 SeaMonitor_46 Main -7.01093116 55.53569024 105 SeaMonitor_105 Main 47 SeaMonitor_47 Main -6.99720201 55.54283203 107 SeaMonitor_106	36	_	Main	-7.08141648 55.50165898
39 SeaMonitor_39 Main -7.06048286 55.51189706 98 SeaMonitor_98 Main 40 SeaMonitor_40 Main -7.05334282 55.51533565 99 SeaMonitor_99 Main 41 SeaMonitor_41 Main -7.04634271 55.51867336 100 SeaMonitor_100 Main 42 SeaMonitor_42 Main -7.03228589 55.52532122 101 SeaMonitor_101 Main 43 SeaMonitor_44 Main -7.03228589 55.52533269 102 SeaMonitor_102 Main 44 SeaMonitor_44 Main -7.02509545 55.5289419 103 SeaMonitor_103 Main 45 SeaMonitor_45 Main -7.01808723 55.53231765 104 SeaMonitor_104 Main 46 SeaMonitor_46 Main -7.01993116 55.53569024 105 SeaMonitor_105 Main 48 SeaMonitor_47 Main -6.99702021 55.54283203 107 SeaMonitor_106 Main 49 SeaMonitor_50 Main -6.99402032 55.54636293 108 SeaMonitor_108				
40 SeaMonitor_40 Main -7.05334282 55.51533565 99 SeaMonitor_99 Main -7.04634271 55.51867336 100 SeaMonitor_100 Main -7.04634271 55.51867336 100 SeaMonitor_101 Main -7.03922506 55.52192132 101 SeaMonitor_101 Main -7.03922506 55.52192132 101 SeaMonitor_101 Main -7.03228589 55.52533269 102 SeaMonitor_102 Main -7.03228589 55.52533269 102 SeaMonitor_102 Main -7.02509545 55.5289419 103 SeaMonitor_103 Main -7.03808723 55.53231765 104 SeaMonitor_104 Main -7.01808723 55.53231765 104 SeaMonitor_104 Main -7.0193116 55.53569024 105 SeaMonitor_105 Main -7.0389832 55.53913897 106 SeaMonitor_105 Main -6.99702021 55.54283203 107 SeaMonitor_106 Main -6.99702021 55.54283203 107 SeaMonitor_107 Main -6.99020932 55.54636293 108 SeaMonitor_107 Main -6.99288718 55.54986651 SeaMonitor_51 Main -6.9758587 55.55336251 SeaMonitor_52 Main -6.96886242 55.55670747 55 SeaMonitor_53 Main -6.96178477 55.5600873 SeaMonitor_54 Main -6.994012066 55.57079208 SeaMonitor_55 Main -6.994012066 55.57079208 SeaMonitor_57 Main -6.93279795 55.57393686 SeaMonitor_58 Main -6.93279795 55.57393686 SeaMonitor_58 Main -6.93279795 55.57393686 SeaMonitor_58 Main -6.93279795 55.57393686 SeaMonitor_58 Main -6.92577653 55.57745161		_		
41 SeaMonitor_41 Main -7.04634271 55.51867336 100 SeaMonitor_100 Main -7.03922506 55.52192132 101 SeaMonitor_101 Main -7.03922506 55.52192132 101 SeaMonitor_101 Main -7.03228589 55.52533269 102 SeaMonitor_102 Main -7.03228589 55.52533269 102 SeaMonitor_102 Main -7.03228589 55.52533269 103 SeaMonitor_103 Main -7.03228589 55.52533269 103 SeaMonitor_103 Main -7.03808723 55.53231765 104 SeaMonitor_104 Main -7.01808723 55.53231765 104 SeaMonitor_104 Main -7.0193116 55.53569024 105 SeaMonitor_105 Main -7.00389832 55.53913897 106 SeaMonitor_105 Main -6.99702021 55.54283203 107 SeaMonitor_106 Main -6.99702021 55.54283203 107 SeaMonitor_107 Main -6.9920932 55.54636293 108 SeaMonitor_107 Main -6.98288718 55.54986651 SeaMonitor_51 Main -6.9758587 55.55336251 SeaMonitor_52 Main -6.9758587 55.55336251 SeaMonitor_53 Main -6.96178477 55.56000873 SeaMonitor_54 Main -6.95455316 55.56376044 SeaMonitor_55 Main -6.94012066 55.57079208 SeaMonitor_57 Main -6.94012066 55.57079208 SeaMonitor_58 Main -6.93279795 55.57393686 SeaMonitor_58 Main -6.92577653 55.57745161		_		
42 SeaMonitor_42 Main -7.03922506 55.52192132 101 SeaMonitor_101 Main 43 SeaMonitor_43 Main -7.03228589 55.52533269 102 SeaMonitor_102 Main 44 SeaMonitor_44 Main -7.02509545 55.5289419 103 SeaMonitor_103 Main 45 SeaMonitor_45 Main -7.01808723 55.53231765 104 SeaMonitor_104 Main 46 SeaMonitor_46 Main -7.01093116 55.53569024 105 SeaMonitor_105 Min 47 SeaMonitor_47 Main -7.00389832 55.53913897 106 SeaMonitor_106 Main 48 SeaMonitor_48 Main -6.99702021 55.54283203 107 SeaMonitor_107 Main 49 SeaMonitor_59 Main -6.99020932 55.54636293 108 SeaMonitor_108 Main 50 SeaMonitor_50 Main -6.99758587 55.55336251 SeaMonitor_50 Main -6.995886242 55.55607047 53 SeaMonitor_54 Main -6.995455316 55.56376044 SeaMonitor_54				
43 SeaMonitor_43 Main -7.03228589 55.52533269 102 SeaMonitor_102 Main -7.03245859 55.52533269 103 SeaMonitor_103 Main -7.02509545 55.5289419 103 SeaMonitor_103 Main -7.01509545 55.5289419 103 SeaMonitor_103 Main -7.015095165 55.5289419 104 SeaMonitor_104 Main -7.015095165 55.535231765 104 SeaMonitor_104 Main -7.01509516 55.53569024 105 SeaMonitor_105 Main -7.00389832 55.53913897 106 SeaMonitor_105 Main -8.0990209155.54283203 107 SeaMonitor_106 Main -6.990209155.54283203 107 SeaMonitor_107 Main -6.990209155.54283203 108 SeaMonitor_107 Main -6.98288718 55.54986651 SeaMonitor_51 Main -6.98288718 55.54986651 SeaMonitor_52 Main -6.96886242 55.55670747 SeaMonitor_53 Main -6.96886242 55.55670747 SeaMonitor_54 Main -6.96478477 55.56000873 SeaMonitor_55 Main -6.94012066 55.57079208 SeaMonitor_57 Main -6.93279795 55.57393686 SeaMonitor_58 Main -6.93279795 55.57393686 SeaMonitor_58 Main -6.92577653 55.57745161		_		
44 SeaMonitor_44 Main -7.02509545 55.5289419 103 SeaMonitor_103 Main 45 SeaMonitor_45 Main -7.01808723 55.53231765 104 SeaMonitor_104 Main 46 SeaMonitor_46 Main -7.01093116 55.53569024 105 SeaMonitor_105 Main 47 SeaMonitor_47 Main -7.00389382 55.53913897 106 SeaMonitor_106 Main 48 SeaMonitor_48 Main -6.99720201 55.54283203 107 SeaMonitor_107 Main 49 SeaMonitor_59 Main -6.99020932 55.54636293 108 SeaMonitor_108 Main 50 SeaMonitor_50 Main -6.99288718 55.54986651 51 SeaMonitor_51 Main -6.9758587 55.55336251 51 SeaMonitor_51 Main -6.96486242 55.55670747 53 SeaMonitor_53 Main -6.96178477 55.56000873 54 SeaMonitor_55 Main -6.94737651 55.56725605 56 SeaMonitor_56 Main -6.994012066 55.57079208 57 SeaMonitor_58 Mai		_		
45 SeaMonitor_45 Main -7.01808723 55.53231765 104 SeaMonitor_104 Main -7.0193116 55.53569024 105 SeaMonitor_105 Main -7.01093116 55.53569024 105 SeaMonitor_105 Main -7.00389832 55.53913897 106 SeaMonitor_106 Main -6.99702021 55.54283203 107 SeaMonitor_107 Main -6.99020932 55.54636293 108 SeaMonitor_107 Main -6.99020932 55.54636293 108 SeaMonitor_108 Main -6.99020932 55.54636293 108 SeaMonitor_108 Main -6.99288718 55.54986651 551 SeaMonitor_50 Main -6.98288718 55.54986651 552 SeaMonitor_51 Main -6.9758587 55.55336251 552 SeaMonitor_52 Main -6.96886242 55.55670747 553 SeaMonitor_53 Main -6.96178477 55.56000873 554 SeaMonitor_55 Main -6.94737651 55.56725605 564 SeaMonitor_56 Main -6.94737651 55.56725605 565 SeaMonitor_57 Main -6.93279795 55.57393686 565 SeaMonitor_58 Main -6.93279795 55.57393686 568 SeaMonitor_58 Main -6.93279795 55.57745161		_		
46 SeaMonitor_46 Main -7.01093116 55.53569024 105 SeaMonitor_105 Main 47 SeaMonitor_47 Main -7.00389832 55.53913897 106 SeaMonitor_106 Main 48 SeaMonitor_48 Main -6.99702021 55.54283203 107 SeaMonitor_107 Main 49 SeaMonitor_50 Main -6.99020932 55.54636293 108 SeaMonitor_108 Main 50 SeaMonitor_50 Main -6.99288718 55.54986651 SeaMonitor_51 Main -6.9758587 55.55336251 52 SeaMonitor_51 Main -6.9758587 55.55336251 SeaMonitor_53 SeaMonitor_53 Main -6.96178477 55.56000873 54 SeaMonitor_54 Main -6.95455316 55.56376044 SeaMonitor_56 SeaMonitor_56 Main -6.94737651 55.56725605 56 SeaMonitor_56 Main -6.93279795 55.57393686 SeaMonitor_58 SeaMonitor_58 Main -6.92577653 55.57745161		_		
47 SeaMonitor_47 Main -7.00389832 55.53913897 106 SeaMonitor_106 Main -6.99702021 55.54283203 107 SeaMonitor_107 Main -6.99702021 55.54283203 108 SeaMonitor_107 Main -6.99020932 55.54636293 108 SeaMonitor_108 Main -6.98288718 55.54986651 51 SeaMonitor_51 Main -6.9758587 55.55336251 52 SeaMonitor_52 Main -6.96886242 55.55670747 53 SeaMonitor_53 Main -6.96178477 55.56000873 54 SeaMonitor_54 Main -6.95455316 55.56376044 55 SeaMonitor_55 Main -6.94737651 55.56376044 55 SeaMonitor_56 Main -6.94737651 55.56725605 56 SeaMonitor_57 Main -6.94012066 55.57079208 57 SeaMonitor_57 Main -6.93279795 55.57393686 58 SeaMonitor_58 Main -6.92577653 55.57745161		_		
48		_		
49		_		
50 SeaMonitor_50 Main -6.98288718 55.54986651 51 SeaMonitor_51 Main -6.9758587 55.55336251 52 SeaMonitor_52 Main -6.96886242 55.55670747 53 SeaMonitor_53 Main -6.96178477 55.56000873 54 SeaMonitor_54 Main -6.95455316 55.56376044 55 SeaMonitor_55 Main -6.94737651 55.56725605 56 SeaMonitor_56 Main -6.94012066 55.57079208 57 SeaMonitor_57 Main -6.93279795 55.57393686 58 SeaMonitor_58 Main -6.92577653 55.57745161		_		
51 SeaMonitor_51 Main -6.9758587 55.55336251 52 SeaMonitor_52 Main -6.96886242 55.55670747 53 SeaMonitor_53 Main -6.96178477 55.56000873 54 SeaMonitor_54 Main -6.95455316 55.56376044 55 SeaMonitor_55 Main -6.94737651 55.56725605 56 SeaMonitor_56 Main -6.94012066 55.57079208 57 SeaMonitor_57 Main -6.93279795 55.57393686 58 SeaMonitor_58 Main -6.92577653 55.57745161		_		
52 SeaMonitor_52 Main -6.96886242 55.55670747 53 SeaMonitor_53 Main -6.96178477 55.56000873 54 SeaMonitor_54 Main -6.95455316 55.56376044 55 SeaMonitor_55 Main -6.94737651 55.56725605 56 SeaMonitor_56 Main -6.94012066 55.57079208 57 SeaMonitor_57 Main -6.93279795 55.57393686 58 SeaMonitor_58 Main -6.92577653 55.57745161				
53 SeaMonitor_53 Main -6.96178477 55.56000873 54 SeaMonitor_54 Main -6.95455316 55.56376044 55 SeaMonitor_55 Main -6.94737651 55.56725605 56 SeaMonitor_56 Main -6.94012066 55.57079208 57 SeaMonitor_57 Main -6.93279795 55.57393686 58 SeaMonitor_58 Main -6.92577653 55.57745161		_		
54 SeaMonitor_54 Main -6.95455316 55.56376044 55 SeaMonitor_55 Main -6.94737651 55.56725605 56 SeaMonitor_56 Main -6.94012066 55.57079208 57 SeaMonitor_57 Main -6.93279795 55.57393686 58 SeaMonitor_58 Main -6.92577653 55.57745161		_		
55 SeaMonitor_55 Main -6.94737651 55.56725605 56 SeaMonitor_56 Main -6.94012066 55.57079208 57 SeaMonitor_57 Main -6.93279795 55.57393686 58 SeaMonitor_58 Main -6.92577653 55.57745161				
56 SeaMonitor_56 Main -6.94012066 55.57079208 57 SeaMonitor_57 Main -6.93279795 55.57393686 58 SeaMonitor_58 Main -6.92577653 55.57745161		_		
57 SeaMonitor_57 Main -6.93279795 55.57393686 58 SeaMonitor_58 Main -6.92577653 55.57745161				
58 SeaMonitor_58 Main -6.92577653 55.57745161		_		
-		_		
59 SeaMonitor_59 Main -6.91/30/9/ 55.5/98/84/		_		
	59	SeaMonitor_59	Main	-6.91/30/9755.57987847