

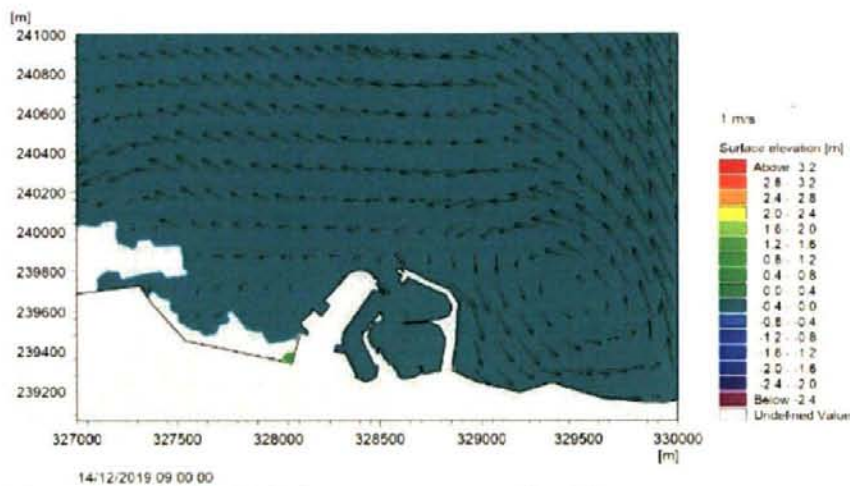


Figure 15: Mid Flood Tidal Currents, Proposed Works

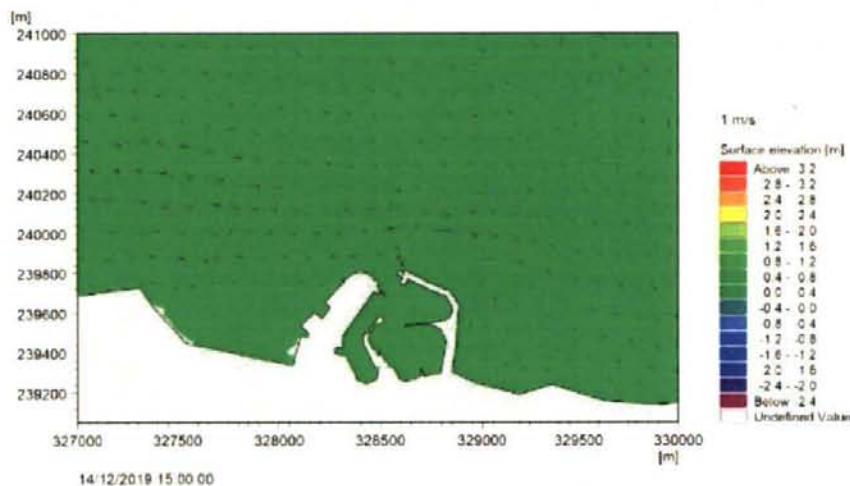


Figure 16: Mid Ebb Tidal Currents, Proposed Works

A more detailed assessment of existing tidal currents and potential changes due to the proposed works is given below.

4.5.3 Existing currents

In relation to the existing situation an examination of the tidal current plots from 0400 to 1900 indicated the following:

- Tidal currents turn approximately 1 to 2 hours before low tide and high tide. They then maintain the same direction for approximately 6 hours. There is a short period of slack water at the turn.
- Tidal currents in the general vicinity of Howth Harbour are towards the west and north west from 1 to 2 hours before low tide until 1 to 2 hours before the following high tide.

- Tidal currents in the general vicinity of Howth Harbour are towards the east and south east from 1 to 2 hours before high tide until 1 to 2 hours before the following low tide.
- Maximum tidal currents just north of the harbour mouth are approximately 0.5 to 1m/s.
- Tidal currents in the area immediately west of the harbour are low. The above figures would indicate that they are less than 0.1m/s, and decrease towards the high-water mark. At some stages of the tide there is a weak eddy just west of the head of the west pier. The majority of this eddy lies within the area of the proposed works.
- There is an eddy in the area to the east of the east pier.

In summary, tidal currents on the latter quarter of the ebb and for most of the flood sweep around Howth Head and move north-west past the mouth of the harbour. On the latter quarter of the flood and most of the ebb the currents sweep back from the north and west and out into the Irish Sea east of Howth Head. The currents fill and empty Baldoyle Estuary to the west.

4.5.4 Comparison of Currents for Existing Situation and with Proposed Development

A comparison of tidal currents for the existing and proposed situations is given in Table 9 below.

Table 9 Tidal Currents Summary of Comparison between existing and proposed works.

Time	Tidal stage	Tidal directions	Comment
0400	LW-2hrs	South east	Tidal currents the same
0500	LW-1hr	Slack	Tidal currents to same
0600	LW	North west	Slightly greater currents out of Baldoyle for existing.
0700	HW-5.5hrs	North west	Slightly lower currents just west of west pier
0800	HW-4.5hrs	North west	Tidal currents the same, less (in extent) of an eddy in area just west of proposed works.
0900	HW-3.5hrs	North west	Tidal currents the same
1000	HW-2.5hrs	West	Tidal currents the same, slightly bigger (in extent) eddy east of the harbour.
1100	HW-1.5hrs	South east	Tidal currents west of the harbour are slightly less with the development, beach area (SAC) currents are the same.
1200	HW-0.5hrs	East	Tidal currents the same
1300	HW+0.5hrs	East	Tidal currents the same, very weak eddy just west of the works.
1400	HW+1.5hrs	East	Tidal currents the same, slightly lower currents in the SAC area west of works.
1500	HW+2.5hrs	South east	Tidal currents the same.
1600	HW+3.5hrs	South east	Tidal currents the same, slightly weaker eddy west of works.
1700	HW+4.5hrs	Slack	Tidal currents the same
1800	HW+5.5hrs	North west	Tidal currents the same, slightly stronger currents north east of the harbour

1900	LW	North west	Tidal currents the same.
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In summary, the proposed works have little impact on the tidal currents except to a slight degree in the area just off Claremount beach to the west of the proposed works, where the currents appear to be reduced slightly, and in the vicinity of the existing eddy just off the northern end of the west pier within the area of the reclamation.

4.5.5 Tidal Current Timeline Plots, Existing and with Proposed Development

Figures 17 to 19 below show tidal currents for existing and proposed development for the three beach locations. The locations are within the inter-tidal area and are only subject to water currents on the upper half of the tide, hence the gaps in the plot where no current is recorded.

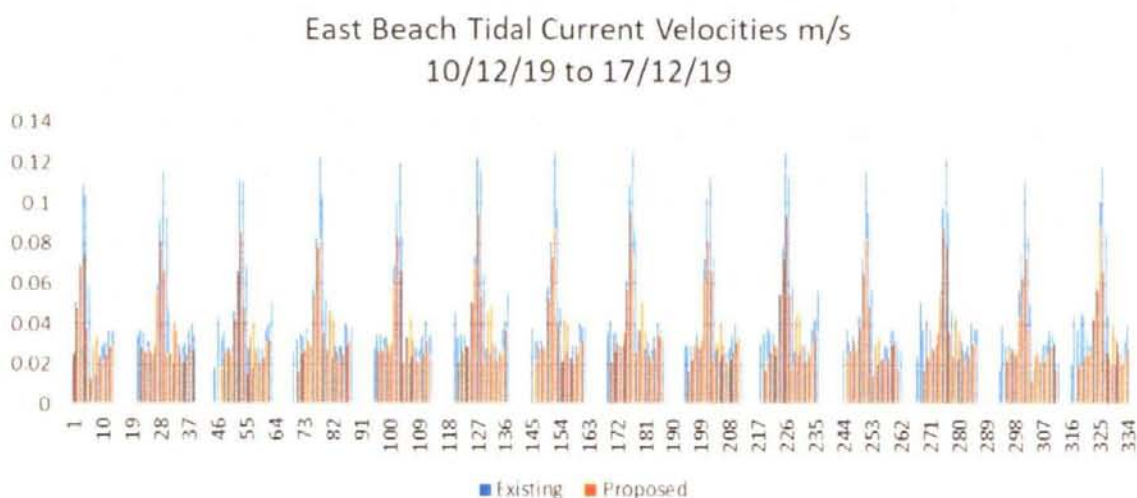


Figure 17: East Beach, tidal currents existing and with proposed development

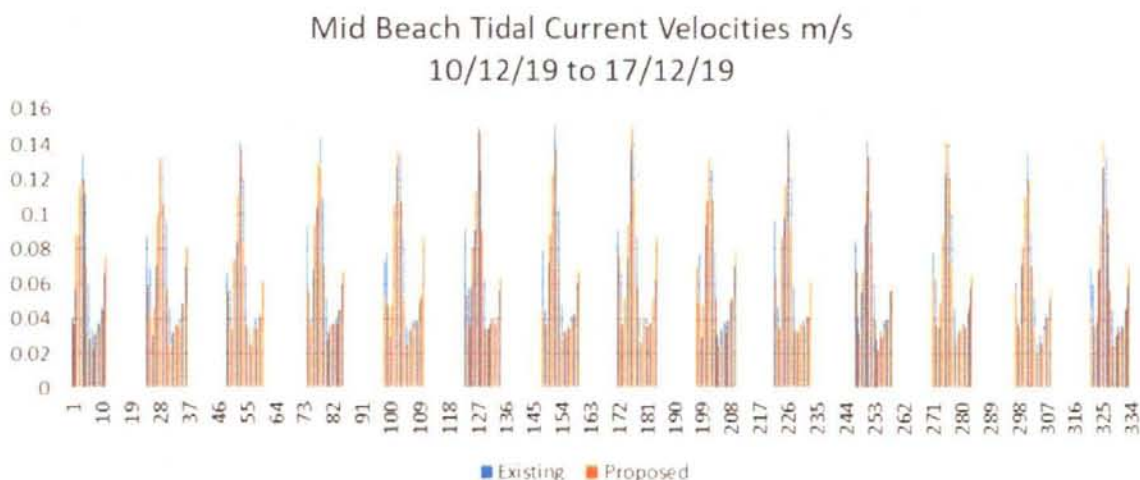


Figure 18: Mid Beach, tidal currents existing and with proposed development

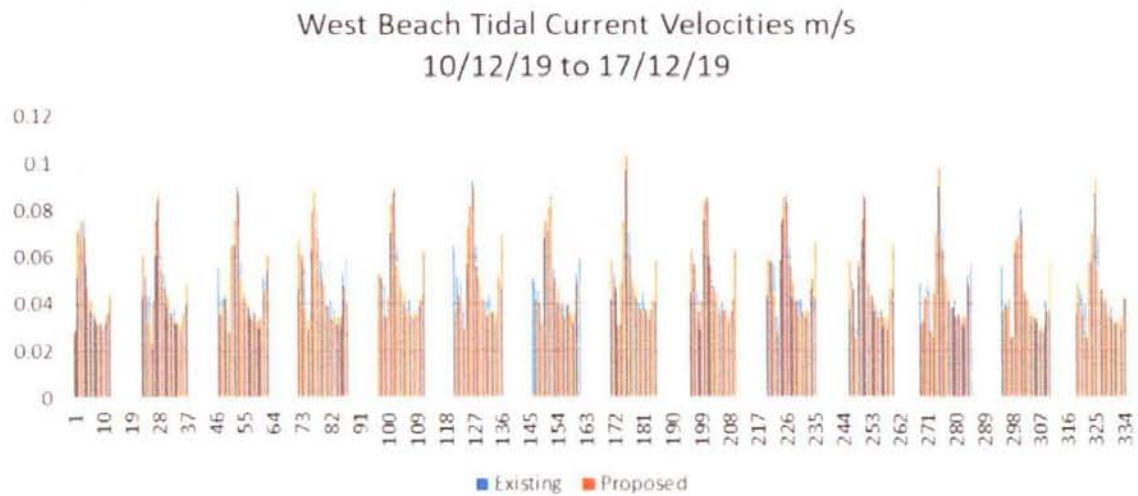


Figure 19: West Beach, tidal currents existing and with proposed development

Figures 17 to 19 show:

- For the east beach, existing currents can reach to 0.12m/s towards high tide. The proposed works will tend to reduce velocities in this area to a maximum of 0.08m/s. A comparison of tidal currents indicates that the maximum decrease is in the order of 0.06m/s.
- The mid beach's existing currents can reach to 0.15m/s towards high tide. The proposed works will tend to reduce velocities in this area to a maximum of 0.14m/s. A comparison of tidal currents indicates that the maximum decrease is in the order of 0.04m/s.
- The west beach's existing currents can reach to 0.10m/s towards high tide. The proposed works will tend to reduce velocities in this area to a maximum of just over 0.10m/s. A comparison of tidal currents indicates that the maximum decrease is in the order of 0.06m/s, with the majority less than 0.02m/s.

4.6 SEDIMENT MOVEMENT

4.6.1 General

This section deals with the movement of suspended sediment as the movement and deposition of such sediment is of particular interest during dredging operations.

Tidal current modelling and wave modelling indicates that there will be little change in tidal currents and wave action except perhaps in the immediate vicinity of the reclamation area. This would indicate that there will be no change in sediment movement patterns due to tidal currents away from the reclamation area. This relates to the operational phase of the development.

However, during the construction phase, material will be dredged from the seabed within the harbour for a considerable length of time, for up to 18 months. During this time fine material that escapes into the water column during the dredging could be carried by tidal currents out of the harbour and into areas outside the harbour.

Sediment will be carried out of the harbour on the ebb tide. Of the material that remains in suspension, some will be carried by the latter quarter of the ebb tide and much of the flood tide towards the west of the harbour and into the areas adjacent to Claremount and Burrow beaches. This will continue for the full duration of the dredging.

4.6.2 Potential Impacts

During dredging there may be an impact on water quality due to an increase in suspended sediment in the water column. In addition, there could be smothering of the seabed as the increased suspended sediment deposits out of the water column. The assessment initially focusses on suspended sediment aspects, followed by a discussion of potential depositional impacts.

The proposed dredging will be carried out in a phased manner. Firstly, it will be necessary to partly construct the perimeter bund of the proposed reclamation area to form an area in which to place the harbour dredged material. This will be undertaken without dredging the foundation of the bund. The foundation will be constructed by the placement of relatively large stones on the existing seabed, letting them sink in the soft material and forming a foundation for the bund material above. Once a section of perimeter is constructed dredging of the harbour will commence. Use of the proposed perimeter bund construction methodology means that the suspended sediment scenario to be examined relates to the dredging within the harbour.

4.6.3 Nature of the Material to be Dredged

An assessment of the grain size of the material to be dredged was made based on the grain size distribution of the samples taken from the overburden from the ground investigation of 2015. Sediment fall velocities were examined for a range of grain sizes and based on water depths and water velocities within the harbour and an assessment was made of the likely size of material that would be transported by tidal currents out of the harbour on an ebb tide. This assessment indicated medium sand and coarser which have sufficient fall velocities that if they enter the water column at the dredge location they are likely to fall to the seabed before exiting the harbour. An assessment was then made of the % of fine

sand, silt and clay in the overburden to be dredged. The assessment results are given in Tables 1,2 and 3 above.

It has been estimated that:

- Fine sand, silt and clay makes up 60% of the overburden material to be dredged.
- Silt and clay makes up 50% of the overburden material to be dredged.

4.6.4 Volume and Rate of Dredging

Dredge areas are given in Figure 1. Dredge volumes are given in Table 1. The total volume of material to be dredged during the construction of the proposed development is estimated to be 240,000m³. Approximately 90% of this or 216,000m³ comprises overburden material. Of the overburden some 60% comprises material that may, if lost into the water column during the dredging process, be carried out of the harbour on ebb tides.

4.6.5 Rate of Dredging and loss of material into the water column

The rate at which material escapes into the water column depends on the rate of dredging. In the proposed works the treatment rate will dictate the long-term dredging rate. It is anticipated that the maximum treatment rate is approximately 500m³/day for each set of treatment plant, and this rate would dictate the average dredge rate as there is little scope for storing dredge material prior to treatment. Based on a 10 hour day, this gives a dredging rate of less than 1m³/minute. Depending on the area and the equipment used, dredging rates of more than ten times this value are possible, though given the plan shape of the harbour, such high rates are unlikely to be achieved in Howth and would be ineffective as the critical path for the works are likely to be dictated by the treatment process. However, it might be possible to have more than one treatment process in operation at the same time, and so for the purpose of ascertaining potential impacts a higher dredging rate is used in the analysis.

It should be noted that the slower the dredging rate the longer the process will continue. A dredging rate of approximately 500m³/day would mean that the dredging/treatment element of the works could take some 18 months. If a faster rate is used the time period will be shorter.

In order to permit some flexibility in the dredging rate during construction a high value is used for impact assessment and it is assumed that this high value continues 24/7. The higher the rate the potentially higher will be increases in suspended sediment and potential smothering effects. A rate of 2,400m³/day is used based on dredging for 24 hours. This gives a rate of 100m³/hr. This rate together with an assumed (high) density of seabed material of 1800kg/m³, and a rate of loss into the water column of 3%, gives a 1.5kg/s loss of dredge spoil into the water column.

An assessment of the grain size of the seabed material indicated that approximately 60% of the seabed material is clay/ silt and the rest is coarser material, see Table 1. Therefore approximately 0.9kg/s of clay/ silt/ fine sand material could be lost into the water column. For the purposes of the modelling this value is assumed to apply 24/7.

In reality a lower dredging rate will be used during construction and it will be intermittent as there will be no night work, no Sunday work, and a shorter day on Saturday. The proposed working hours relate to approximately half of a week. This means that the time during which dredging operations are undertaken is approximately half that used in the modelling analysis.

4.6.6 Suspended Sediment Concentrations

4.6.6.1 Coarser Fraction

Material coarser than the silt/ clay fraction has a relatively high fall velocity, and if stirred up into the water column quickly falls to the seabed. Such material would therefore fall close to the dredging point. The distance depends on the size of the material, the tidal current and the depth of water. For example, medium sand with a minimum grain size of 0.2mm has a fall velocity of 26.5mm/s. It would take such a grain about 4 minutes to drop through 6m of water, during which time a 0.1m/s tidal current would have transported the grain in suspension approximately 24m. In addition, material would be lost close to the seabed and up through the water column as the dredging grab or bucket is raised. This would halve the average distance travelled in suspension to 12m. Such material is unlikely to escape from the harbour during dredging operations.

For the case of a fine sand with a mid-range grain size of 0.1mm, the fall velocity is 6.6mm/s, during which time a 0.1m/s current would transport the grain 90m and could escape from the harbour.

The assessment of impacts of suspended sediment outside the harbour is therefore based on the fine sand/ silt/ clay fraction.

The finer fraction is assumed to escape, and modelling of the movement and concentrations of suspended sediment is based on such a fine grain size.

Material coarser than medium sand would also fall to the seabed near the dredge bucket.

4.6.6.2 Fine Sand Silt Clay Fraction

The fine sand/ silt/ clay sized material can stay in suspension longer than the coarser fraction and can therefore be transported by tidal currents out of the harbour. The modelling of such movement was used to estimate suspended sediment concentrations and smothering depths due to material settling on the seabed.

For model runs it was assumed that dredging would take place 24 hours a day, seven days a week. Initially a model run for a 14-day period showing suspended sediment concentrations was made. Initial examination of the output video showing suspended sediment concentrations outside the harbour showed the dredge plume oscillating about the harbour mouth from east to west. Given the ecological sensitivities of the area to the west, a number of points were selected just off the western perimeter of the proposed reclamation and along the Claremount beach area and model output in terms of suspended sediment concentrations and material deposition at intervals over a number of tidal cycles were made.

A model run was made for a one-year period. This was run on the basis of 2,400m³/day giving an escape rate of 0.9kg/s running 24/7. Over a one-year period this would amount to a total dredge volume of 876,000m³, over 3 times the proposed amount of material to be dredged.

Output at the 6 locations on Figure 4 included suspended sediment concentrations and net deposition over a period towards the end of the years modelling. This was to ensure that any cumulative effects of the dredging were included in the results.

The areas of greatest concern were considered to be those close to Claremount Beach. Suspended sediment and deposition output is given for three locations fronting the beach East, Mid and West and shown in Figures 20, 21, and 22. Also shown are Figures 23 to 25 which shows the deposition for the same three locations. Locations East, Mid, and West are the same as locations 4, 5 and 6 respectively in Figure 8.

Higher concentrations were found along the perimeter of the proposed development, but these are away from the designated area.

The one-year model run output for locations along the beach and perimeter were obtained to see if there would be cumulative effects due to the ongoing nature of the dredging. As the dredging continued there would be material escaping into the water column in an ongoing manner. However, this material though fine and consequently having a low settling velocity would be dissipated further and further from the harbour and would settle out over a very large area resulting in a limit to the cumulative effect.

It should be noted that the year run output relates to more than 3 times the overall volume of material to be dredged from the harbour and so is likely to overestimate any smothering effect. In addition, the dredge plume modelling is based on a very low fall velocity of 0.00265mm/s. In the literature on suspended sediment concentrations there are indications that the finer material may form flocs and have a higher settling velocity, with values in the range of 0.5 to 2mm/s quoted. If such flocs formed in the case of the proposed dredging at Howth, the dredge plume concentrations within the harbour would be higher than the modelled estimates but the concentrations outside and away from the harbour mouth would be much less.

Suspended sediment concentrations due to dredging activities can be further reduced by the management of the dredging process and the use of mitigation measures such as silt curtains. Silt curtains are considered to reduce sediment concentrations by 80 to 90% outside the curtain and can be used together with environmental dredging buckets if agreed limits on suspended sediment concentrations are exceeded.

4.6.6.3 Suspended Sediment Timeline Plots

Figures 20 to 22 (towards the end of year) show that for the existing situation:

- Suspended sediment concentrations at the east beach location can reach 0.018kg/m³, or 18mg/l, towards high tide. However, most of the readings are less than 3mg/l.
- Suspended sediment concentrations at the mid beach location can reach 0.005kg/m³, or 5mg/l, towards high tide. Most of the readings are less than 2mg/l.
- Suspended sediment concentrations at the west beach location can reach 0.014kg/m³, or 14g/l, towards high tide. Most of the readings are less than 4mg/l.

Figures 26 to 29 are from the first month of suspended sediment modelling. Figure 29 is a plot of tide levels during this period. The figures show that the maximum concentrations occur for dredging with the existing situation at the east and west beach points. In the middle beach location the concentrations with the perimeter in place seem slightly higher than with the existing situation. It

should be noted that the average concentrations are a fraction of the maximum values and at some stages of the tide, concentration levels can be very low.

It would also appear from figures 26 to 29 that suspended sediment concentrations are greater on neap tides than spring tides. The tidal excursions on the spring tides would carry the material over a larger area than on the neap tides and therefore it would be expected that suspended sediment concentrations would be less.

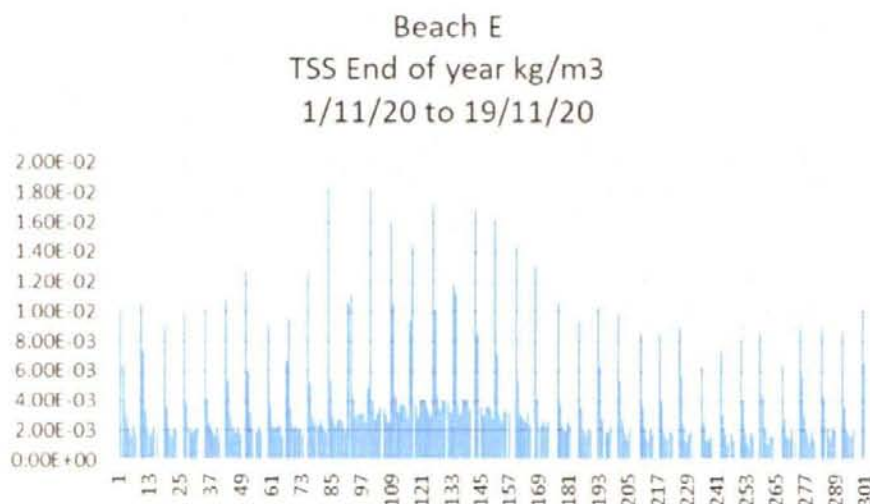


Figure 20 : Suspended sediment concentrations at the east beach location

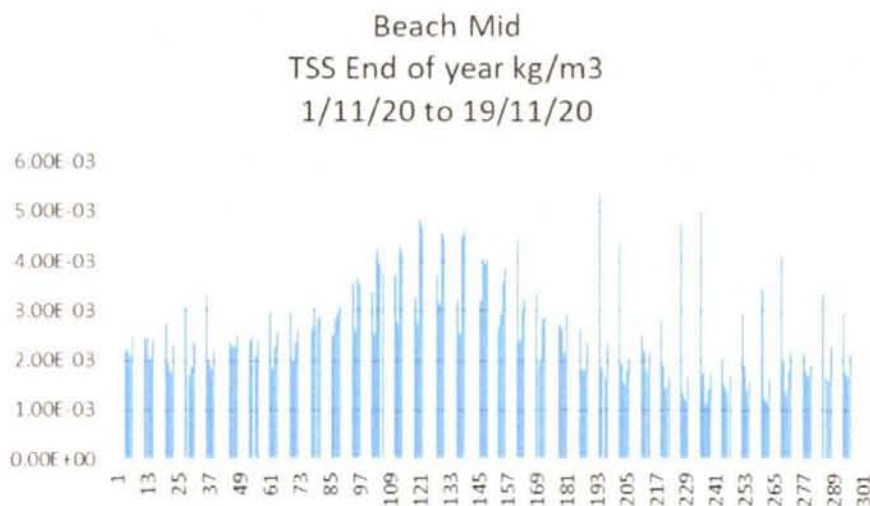


Figure 21: Suspended sediment concentrations at the mid beach location

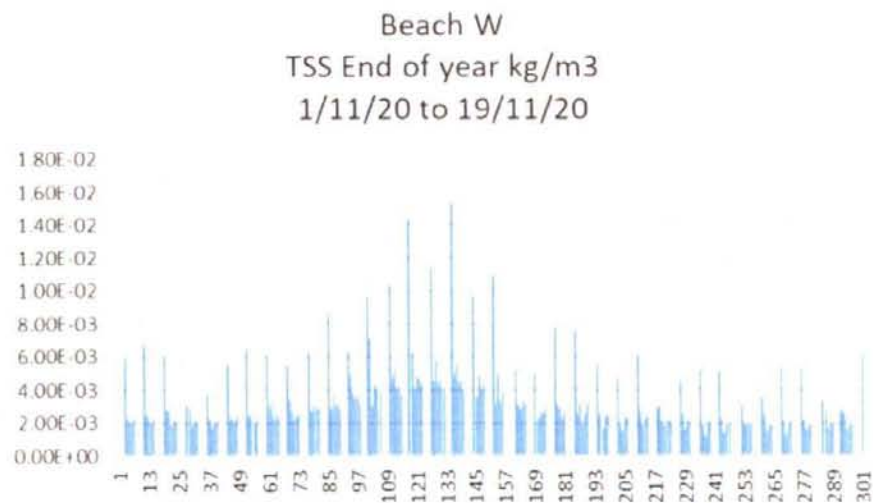


Figure 22: Suspended sediment concentrations at the west beach location

4.6.6.4 Net Deposition Timeline Plots

An examination of the net deposition plots indicate:

- At the end of the modelled year, it is estimated that there will have been a net deposition of 0.4mm at the east beach location.
- At the end of the year there will have been a net deposition of 0.2mm at the mid beach location.
- At the end of the year there will have been a net deposition of 0.25mm at the mid beach location.

The above values are very small and are indicative that the fine material that deposits during slack tides is taken away on the next tide and is carried much further from the vicinity of the site.

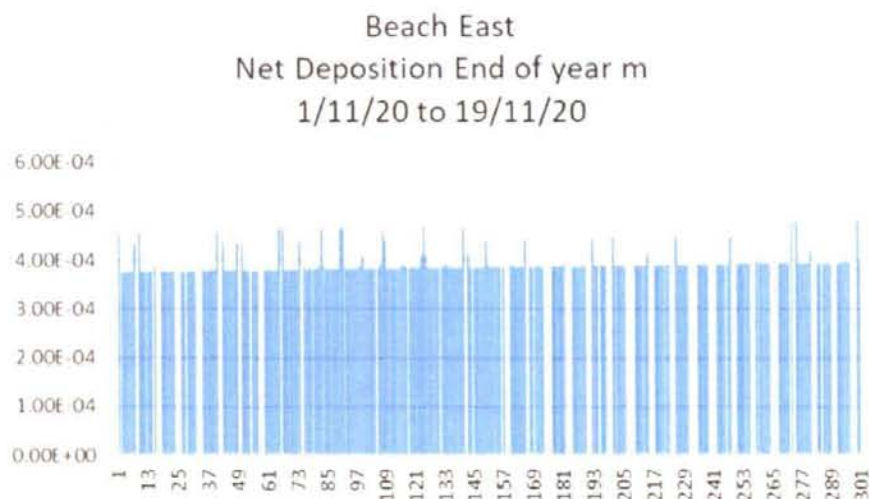
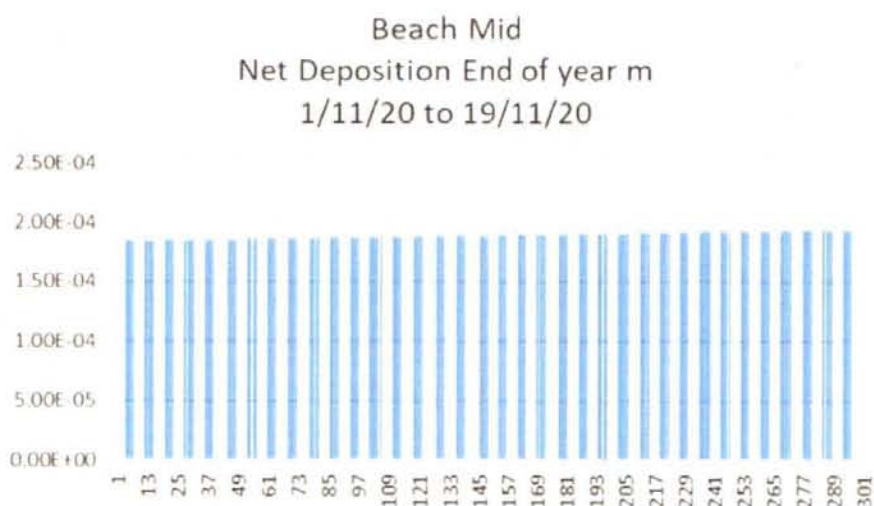
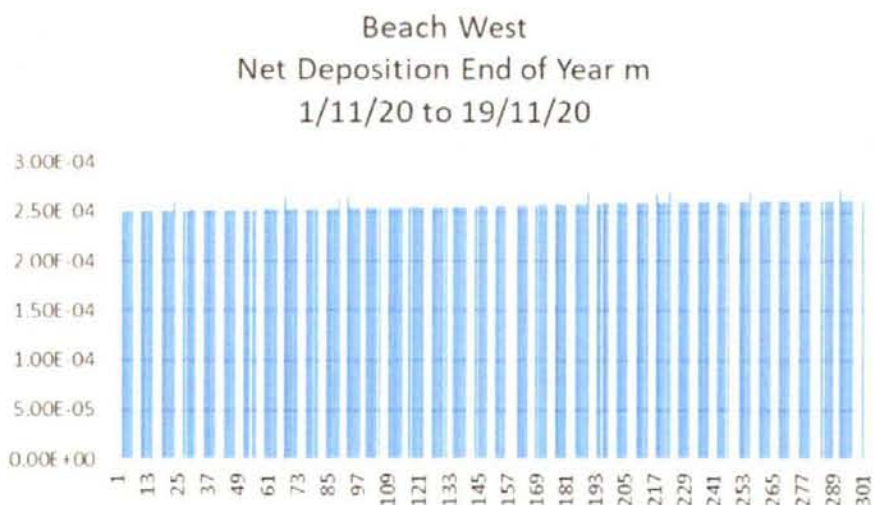


Figure 23 Beach East, Net deposition existing situation**Figure 24 Beach Mid, Net deposition existing situation****Figure 25 Beach West, Net deposition existing situation**

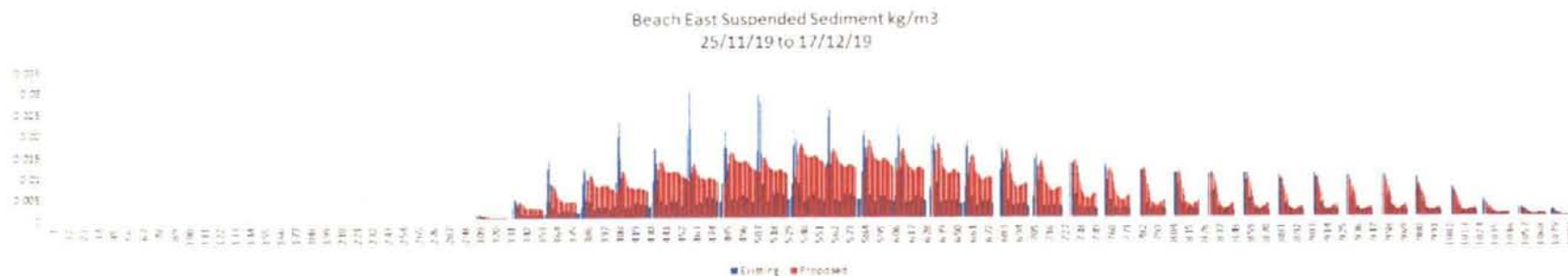


Figure 26 : Suspended sediment concentrations at the east beach location

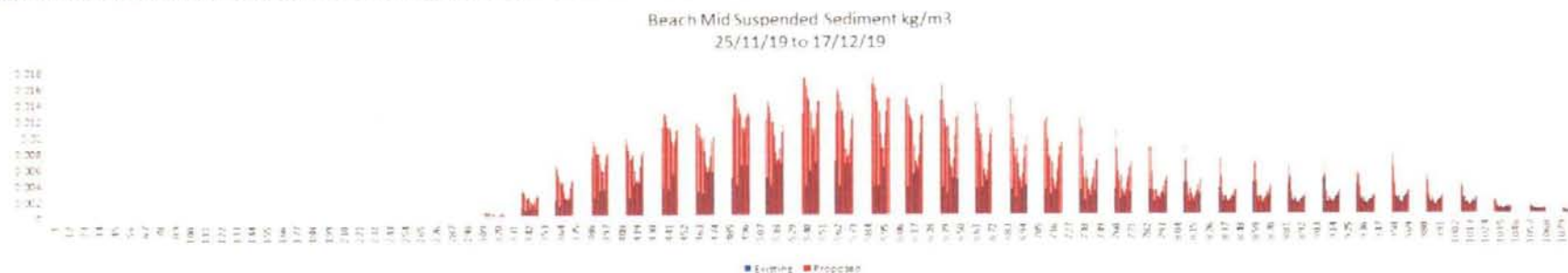


Figure 27 : Suspended sediment concentrations at the mid beach location

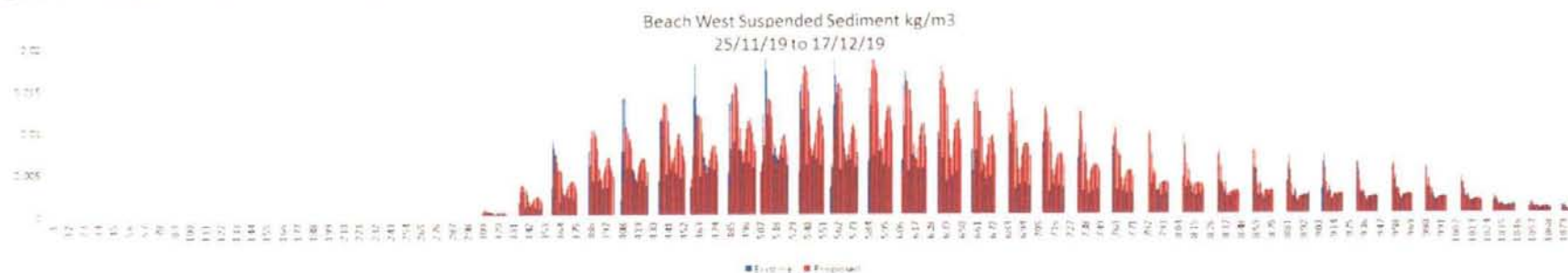


Figure 28 : Suspended sediment concentrations at the west beach location



Figure 29: tide levels for suspended sediment plots for first month's modelling

4.6.7 Erosion / Accretion Patterns

Erosion accretion patterns are due to a combination of tidal currents and wave action with the largest changes occurring during storms. The sediment characteristics (sandy beach) of the upper beach area are due to a combination of source of material, the effects of waves and to a lesser degree wind (Aeolian transport). Aeolian transport blowing sand can cause sand to build up landwards of the intertidal area. This is happening to a degree at either end of the section of coastline immediately adjacent to the DART line just west of the harbour. During periods of calm weather wind can accumulate sand in front of more permanent dunes to form embryo dunes. Such dunes are a transient phenomenon because during storms the embryo dunes can be removed by wave action.

The proposed development would appear to slightly reduce wave heights and tidal currents in this area. This would result in a slight increase in any tendency for sand to accrete in this area. However, given that the impacts on waves and currents are small, the general nature of the beach materials will not change in a significant way. For example, though reduced slightly, wave action will still be sufficient to move sand sized material and will therefore prevent the build-up of finer material.

4.7 POSSIBLE MITIGATION

Suggested mitigations to reduce impacts on the hydrodynamic and sediment regime include:

- Dredge using method that limits loss of material into water column. It is proposed to use an environmental bucket to limit the loss of material into the water column during the dredging process.
- Monitoring of turbidity/ suspended sediment will be used to check on suspended sediment levels in sensitive areas.
- While silt curtains are not considered to be necessary, they should be held in reserve to be used in the event that monitoring shows that suspended sediment concentrations exceed agreed levels.
- Further mitigation, if found to be necessary, could include the management of the dredging process to reduce the suspended sediment concentrations leaving the harbour.

4.8 POTENTIAL RESIDUAL IMPACTS

Residual impacts on the hydrodynamic and sediment regime are assessed to be:

- Impacts on tide levels and wave action are considered to be minimal.
- Impacts on wave driven erosion / accretion patterns on the west of the harbour are considered to be minimal. Impacts on other areas of coastline are considered imperceptible.
- Impacts on tidal currents would be confined to the immediate vicinity of the perimeter of the proposed reclamation area. Away from the perimeter, impacts are considered minimal.
- Tidal Currents:
 - The changes in tidal currents are, localised and relatively small being in the order of less than 0.1m/s in the area just west of the proposed development. Impacts towards the beach areas are much less.
- Suspended sediments during dredging:
 - There will be residual impacts in the form of temporary increased levels of suspended sediment during dredging. The most critical area will be that west of the development. However, the increases are small, they are temporary in the sense that they depend on the stage of the tide, the dredging will be intermittent, and the overall dredging campaign will last in the order of 18months or less. However, they need to be combined with the level of contaminants to fully assess their potential impact, see Generic Qualitative Risk Assessment.

4.9 CONCLUSION

The conclusions of this assessment of potential impacts on the hydrodynamic and sediment regime are:

- Impacts on bedrock and drift geology, tide levels and wave action and wave driven erosion accretion patterns are considered to be minimal.
- There will be some slight residual impacts on tidal currents. However, these are immediately adjacent to the perimeter of the proposed reclamation and greatest at the northern end – away from the SAC to the west.
- During dredging, impacts in terms of a temporary increased suspended sediment concentrations will occur both east and west of the harbour entrance. Suspended sediment increases of 18mg/l may occur at some stages of the tide in the vicinity of the beaches west of the proposed development. A small amount of deposition of dredged sediment may occur in this area. The increases in suspended sediment vary with the stage of the tide and the dredging and are likely to have a minimal impact. In addition, potential deposition of finer dredge material may occur, but this is likely to be less than a few millimetres of material over a long time period and if finer than fine sand is likely to be quickly removed by wave action from the intertidal and above tide areas.
- The increased turbidity in the vicinity of the beach to the west of the site during dredging, may, if conditions are calm, result in the deposition of such material in the intertidal area. However, such deposition will be temporary and will be removed by subsequent wave action.

**Appendix A Oceanographic survey recordings, December 2019, Hydrographic Surveys Ltd,
Department of Agriculture, Food and the Marine.**

Tidal Currents						
Site:		Howth				
Project number:		PH19030				
Date:		03/12/2019				
Instrument:		Valeport 106				
Date	Time [GMT]	Tide [ODM]	Station	Depth (m)	Speed (m/s)	Direction (mag)
03/12/2019	06:19:25	0.21	1	1.0	0.000	290.5
03/12/2019	06:20:45	0.13	1	2.0	0.000	296.7
03/12/2019	06:21:45	0.13	1	3.0	0.000	336.4
03/12/2019	06:33:54	0.06	2	1.0	0.023	65.5
03/12/2019	06:34:54	0.06	2	2.0	0.022	61.7
03/12/2019	06:37:14	0.01	2	3.0	0.043	93.2
03/12/2019	06:38:54	0.01	2	4.0	0.047	84.9
03/12/2019	06:39:54	0.01	2	4.5	0.024	72.1
03/12/2019	06:50:34	-0.13	3	1.0	0.269	123.2
03/12/2019	06:52:14	-0.13	3	2.0	0.260	102.2
03/12/2019	06:53:34	-0.13	3	3.0	0.344	111.9
03/12/2019	06:55:14	-0.18	3	4.0	0.353	98.2
03/12/2019	06:56:54	-0.18	3	5.0	0.316	106.6
03/12/2019	06:57:54	-0.18	3	6.0	0.395	97.7
03/12/2019	06:59:14	-0.18	3	7.0	0.341	93.2
03/12/2019	07:00:34	-0.23	3	8.0	0.313	92.0
03/12/2019	07:02:14	-0.23	3	9.0	0.329	91.6
03/12/2019	07:03:14	-0.23	3	10.0	0.315	92.3
03/12/2019	07:04:14	-0.23	3	11.0	0.315	111.8
03/12/2019	07:04:54	-0.25	3	13.0	0.349	89.6
03/12/2019	07:17:14	-0.36	1	1.0	0.005	208.2
03/12/2019	07:18:34	-0.36	1	2.0	0.000	185.1
03/12/2019	07:20:14	-0.40	1	3.0	0.005	282.9
03/12/2019	07:21:14	-0.40	1	4.0	0.006	261.4
03/12/2019	07:45:14	-0.63	2	1.0	0.006	331.1
03/12/2019	07:46:54	-0.63	2	2.0	0.072	260.0
03/12/2019	07:48:14	-0.63	2	3.0	0.000	217.3
03/12/2019	07:49:34	-0.63	2	4.0	0.007	202.0
03/12/2019	08:02:54	-0.75	3	1.0	0.150	335.1
03/12/2019	08:04:14	-0.75	3	2.0	0.153	353.3
03/12/2019	08:05:14	-0.75	3	3.0	0.139	4.7
03/12/2019	08:06:14	-0.75	3	4.0	0.122	15.9
03/12/2019	08:07:14	-0.75	3	5.0	0.106	5.8
03/12/2019	08:08:14	-0.75	3	6.0	0.106	21.4
03/12/2019	08:09:14	-0.75	3	7.0	0.115	20.8
03/12/2019	08:10:14	-0.80	3	8.0	0.093	2.7
03/12/2019	08:11:14	-0.80	3	9.0	0.097	25.3
03/12/2019	08:12:14	-0.80	3	10.0	0.109	14.0
03/12/2019	08:13:14	-0.80	3	11.0	0.110	6.2
03/12/2019	08:14:14	-0.80	3	12.0	0.105	38.9
03/12/2019	08:15:14	-0.87	3	13.0	0.108	9.7
03/12/2019	08:16:14	-0.87	3	14.0	0.114	14.9
03/12/2019	08:28:34	-0.89	1	1.0	0.000	36.1
03/12/2019	08:29:34	-0.89	1	2.0	0.007	20.9
03/12/2019	08:30:34	-0.96	1	3.0	0.009	328.4
03/12/2019	08:43:34	-0.97	2	1.0	0.050	267.2
03/12/2019	08:44:34	-0.97	2	2.0	0.078	254.8
03/12/2019	08:45:34	-1.04	2	3.0	0.000	125.0
03/12/2019	08:53:34	-1.06	3	1.0	0.347	301.3
03/12/2019	08:54:34	-1.06	3	2.0	0.223	323.3
03/12/2019	08:55:34	-1.05	3	3.0	0.233	348.1
03/12/2019	08:56:34	-1.05	3	4.0	0.235	328.5
03/12/2019	08:57:34	-1.05	3	5.0	0.237	326.9
03/12/2019	08:58:34	-1.05	3	6.0	0.227	326.3
03/12/2019	08:59:34	-1.05	3	7.0	0.210	327.6
03/12/2019	09:00:34	-1.07	3	8.0	0.203	313.4
03/12/2019	09:01:34	-1.07	3	9.0	0.184	317.6
03/12/2019	09:02:34	-1.07	3	10.0	0.187	308.6
03/12/2019	09:03:34	-1.07	3	11.0	0.148	318.9
03/12/2019	09:04:34	-1.07	3	12.0	0.154	300.4
03/12/2019	09:05:34	-1.12	3	13.0	0.154	318.8
03/12/2019	09:21:54	-1.14	1	1.0	0.000	309.7
03/12/2019	09:22:54	-1.14	1	2.0	0.006	303.7

03/12/2019	09:23:54	-1.14	1	2.5	0.000	304.5
03/12/2019	09:34:40	-1.14	2	1.0	0.009	309.5
03/12/2019	09:35:40	-1.12	2	2.0	0.005	292.4
03/12/2019	09:36:40	-1.12	2	3.0	0.017	268.4
03/12/2019	09:37:40	-1.12	2	3.5	0.000	228.4
03/12/2019	09:45:20	-1.12	3	1.0	0.190	294.8
03/12/2019	09:48:20	-1.12	3	2.0	0.253	329.2
03/12/2019	09:49:20	-1.12	3	3.0	0.273	323.3
03/12/2019	09:50:20	-1.11	3	4.0	0.299	317.3
03/12/2019	09:51:20	-1.11	3	5.0	0.295	311.7
03/12/2019	09:52:20	-1.11	3	6.0	0.304	322.0
03/12/2019	09:53:20	-1.11	3	7.0	0.292	310.4
03/12/2019	09:54:20	-1.11	3	8.0	0.293	314.2
03/12/2019	09:55:20	-1.12	3	9.0	0.241	318.5
03/12/2019	09:56:20	-1.12	3	10.0	0.247	306.3
03/12/2019	09:57:20	-1.12	3	11.0	0.233	324.7
03/12/2019	09:58:20	-1.12	3	12.0	0.212	317.0
03/12/2019	09:59:20	-1.12	3	13.0	0.247	316.6
03/12/2019	10:11:20	-1.08	1	1.0	0.009	99.7
03/12/2019	10:12:20	-1.08	1	2.0	0.020	110.9
03/12/2019	10:13:20	-1.08	1	2.5	0.019	128.6
03/12/2019	10:19:40	-1.08	2	1.0	0.080	71.9
03/12/2019	10:20:40	-1.05	2	2.0	0.040	93.1
03/12/2019	10:21:40	-1.05	2	3.0	0.010	91.1
03/12/2019	10:33:11	-1.01	3	1.0	0.395	284.9
03/12/2019	10:34:11	-1.01	3	2.0	0.291	305.5
03/12/2019	10:35:11	-0.99	3	3.0	0.283	327.6
03/12/2019	10:37:11	-0.99	3	4.0	0.309	301.1
03/12/2019	10:38:11	-0.99	3	5.0	0.293	315.0
03/12/2019	10:39:11	-0.99	3	6.0	0.261	307.9
03/12/2019	10:40:11	-0.98	3	7.0	0.280	300.8
03/12/2019	10:41:11	-0.98	3	8.0	0.275	301.5
03/12/2019	10:42:11	-0.98	3	9.0	0.276	301.9
03/12/2019	10:43:31	-0.98	3	10.0	0.185	282.4
03/12/2019	10:44:31	-0.98	3	11.0	0.219	287.3
03/12/2019	10:45:31	-0.93	3	12.0	0.116	256.9
03/12/2019	10:56:31	-0.90	1	1.0	0.000	95.1
03/12/2019	10:57:31	-0.90	1	2.0	0.000	96.8
03/12/2019	10:58:31	-0.90	1	2.5	0.042	105.4
03/12/2019	11:03:14	-0.84	2	1.0	0.075	96.2
03/12/2019	11:04:34	-0.84	2	2.0	0.009	69.0
03/12/2019	11:05:14	-0.82	2	3.0	0.008	63.6
03/12/2019	11:06:14	-0.82	2	3.5	0.009	69.0
03/12/2019	11:13:54	-0.81	3	1.0	0.316	306.4
03/12/2019	11:14:54	-0.81	3	2.0	0.395	257.1
03/12/2019	11:18:17	-0.75	3	3.0	0.315	288.4
03/12/2019	11:19:37	-0.75	3	4.0	0.266	294.0
03/12/2019	11:20:17	-0.69	3	5.0	0.242	299.5
03/12/2019	11:21:17	-0.69	3	6.0	0.310	281.2
03/12/2019	11:22:17	-0.69	3	7.0	0.281	302.5
03/12/2019	11:23:17	-0.69	3	8.0	0.324	280.6
03/12/2019	11:24:17	-0.69	3	9.0	0.288	293.5
03/12/2019	11:25:17	-0.68	3	10.0	0.253	297.1
03/12/2019	11:26:17	-0.68	3	11.0	0.266	288.1
03/12/2019	11:27:17	-0.68	3	12.0	0.253	286.0
03/12/2019	11:28:17	-0.68	3	13.0	0.215	295.8
03/12/2019	11:43:57	-0.58	1	1.0	0.162	155.7
03/12/2019	11:44:57	-0.58	1	2.0	0.090	184.1
03/12/2019	11:46:37	-0.50	1	2.5	0.084	160.1
03/12/2019	11:53:57	-0.48	2	1.0	0.105	41.9
03/12/2019	11:54:57	-0.48	2	2.0	0.107	23.9
03/12/2019	11:55:57	-0.42	2	3.0	0.174	53.5
03/12/2019	11:56:57	-0.42	2	4.0	0.105	55.8
03/12/2019	12:07:17	-0.37	3	1.0	0.310	278.8
03/12/2019	12:08:17	-0.37	3	2.0	0.198	296.5
03/12/2019	12:09:17	-0.37	3	3.0	0.262	282.3
03/12/2019	12:10:17	-0.31	3	4.0	0.244	289.9
03/12/2019	12:11:17	-0.31	3	5.0	0.236	281.3
03/12/2019	12:12:17	-0.31	3	6.0	0.235	283.0
03/12/2019	12:13:17	-0.31	3	7.0	0.215	278.1

03/12/2019	12:14:17	-0.31	3	8.0	0.213	272.9
03/12/2019	12:15:17	-0.29	3	9.0	0.180	269.4
03/12/2019	12:16:17	-0.29	3	10.0	0.152	261.9
03/12/2019	12:17:17	-0.29	3	11.0	0.180	261.9
03/12/2019	12:18:17	-0.29	3	12.0	0.161	268.6
03/12/2019	12:19:17	-0.29	3	13.0	0.180	253.2
03/12/2019	13:13:35	0.18	1	1.0	0.105	146.7
03/12/2019	13:14:15	0.18	1	2.0	0.172	158.3
03/12/2019	13:14:55	0.18	1	3.0	0.199	160.3
03/12/2019	13:21:45	0.26	2	1.0	0.116	30.4
03/12/2019	13:22:45	0.26	2	2.0	0.112	98.8
03/12/2019	13:24:05	0.26	2	3.0	0.099	65.0
03/12/2019	13:25:05	0.33	2	4.0	0.111	61.9
03/12/2019	13:26:05	0.33	2	5.0	0.069	63.2
03/12/2019	13:35:25	0.38	3	1.0	0.068	119.1
03/12/2019	13:36:25	0.38	3	2.0	0.097	181.1
03/12/2019	13:37:25	0.38	3	3.0	0.171	198.1
03/12/2019	13:38:25	0.38	3	4.0	0.203	231.5
03/12/2019	13:39:25	0.38	3	5.0	0.187	225.4
03/12/2019	13:40:25	0.45	3	6.0	0.284	244.5
03/12/2019	13:49:44	0.47	3	7.0	0.137	233.9
03/12/2019	13:50:44	0.52	3	8.0	0.118	242.3
03/12/2019	13:51:44	0.52	3	9.0	0.133	213.7
03/12/2019	13:52:44	0.52	3	10.0	0.091	229.3
03/12/2019	13:53:44	0.52	3	11.0	0.083	225.8
03/12/2019	13:54:44	0.52	3	12.0	0.082	184.7
03/12/2019	13:55:44	0.54	3	13.0	0.083	210.5
03/12/2019	13:56:44	0.54	3	14.0	0.000	181.8
03/12/2019	14:06:04	0.62	1	1.0	0.000	209.1
03/12/2019	14:07:04	0.62	1	2.0	0.009	139.7
03/12/2019	14:08:04	0.62	1	3.0	0.000	102.3
03/12/2019	14:09:04	0.62	1	4.0	0.086	165.9
03/12/2019	14:10:04	0.64	1	5.0	0.000	125.0
03/12/2019	14:16:41	0.71	2	1.0	0.076	77.0
03/12/2019	14:17:41	0.71	2	2.0	0.195	65.2
03/12/2019	14:18:41	0.71	2	3.0	0.195	65.3
03/12/2019	14:21:41	0.71	2	4.0	0.202	56.4
03/12/2019	14:22:41	0.71	2	5.0	0.168	57.2
03/12/2019	14:23:41	0.71	2	6.0	0.000	325.9
03/12/2019	14:31:21	0.78	3	1.0	0.076	148.9
03/12/2019	14:32:21	0.78	3	2.0	0.035	163.0
03/12/2019	14:33:21	0.78	3	3.0	0.124	163.5
03/12/2019	14:34:21	0.78	3	4.0	0.112	167.5
03/12/2019	14:35:21	0.83	3	5.0	0.115	188.3
03/12/2019	14:36:21	0.83	3	6.0	0.111	168.4
03/12/2019	14:37:21	0.83	3	7.0	0.178	169.7
03/12/2019	14:38:21	0.83	3	8.0	0.141	160.2
03/12/2019	14:39:21	0.83	3	9.0	0.179	159.3
03/12/2019	14:40:21	0.85	3	10.0	0.117	172.9
03/12/2019	14:41:21	0.85	3	11.0	0.142	169.7
03/12/2019	14:42:21	0.85	3	12.0	0.117	172.0
03/12/2019	14:43:21	0.85	3	13.0	0.144	167.7
03/12/2019	14:44:21	0.85	3	14.0	0.131	159.3
03/12/2019	14:45:21	0.88	3	15.0	0.172	152.9
03/12/2019	14:53:41	0.91	1	1.0	0.023	203.9
03/12/2019	14:54:41	0.91	1	2.0	0.018	193.1
03/12/2019	14:55:41	0.93	1	3.0	0.000	186.8
03/12/2019	14:56:41	0.93	1	4.0	0.000	148.6
03/12/2019	14:57:41	0.93	1	5.0	0.000	116.0
03/12/2019	15:04:36	0.96	2	1.0	0.197	63.4
03/12/2019	15:05:36	1.01	2	2.0	0.271	52.0
03/12/2019	15:06:36	1.01	2	3.0	0.234	70.0
03/12/2019	15:07:36	1.01	2	4.0	0.219	66.7
03/12/2019	15:08:36	1.01	2	5.0	0.203	64.7
03/12/2019	15:09:36	1.01	2	6.0	0.127	73.3
03/12/2019	15:19:00	1.03	3	1.0	0.244	112.4
03/12/2019	15:20:00	1.04	3	2.0	0.483	100.7
03/12/2019	15:21:00	1.04	3	3.0	0.360	131.7
03/12/2019	15:22:00	1.04	3	4.0	0.385	138.8
03/12/2019	15:23:00	1.04	3	5.0	0.376	140.4

03/12/2019	15:24:00	1.04	3	6.0	0.385	137.4
03/12/2019	15:25:00	1.08	3	7.0	0.397	139.2
03/12/2019	15:26:00	1.08	3	8.0	0.333	138.7
03/12/2019	15:27:00	1.08	3	9.0	0.365	131.7
03/12/2019	15:28:00	1.08	3	10.0	0.363	136.7
03/12/2019	15:29:00	1.08	3	11.0	0.374	133.8
03/12/2019	15:30:00	1.09	3	12.0	0.319	142.4
03/12/2019	15:31:00	1.09	3	13.0	0.292	138.0
03/12/2019	15:32:00	1.09	3	14.0	0.351	141.4
03/12/2019	15:33:00	1.09	3	15.0	0.234	139.6
03/12/2019	15:43:00	1.13	1	1.0	0.000	25.2
03/12/2019	15:44:00	1.13	1	2.0	0.006	42.0
03/12/2019	15:45:00	1.13	1	3.0	0.008	116.9
03/12/2019	15:46:00	1.13	1	4.0	0.008	131.3
03/12/2019	15:47:00	1.13	1	4.5	0.000	243.3
03/12/2019	15:53:59	1.16	2	1.0	0.127	63.5
03/12/2019	15:54:59	1.16	2	2.0	0.044	301.8
03/12/2019	15:55:59	1.16	2	3.0	0.247	61.5
03/12/2019	15:56:59	1.16	2	4.0	0.219	73.5
03/12/2019	15:57:59	1.16	2	5.0	0.215	72.7
03/12/2019	15:58:59	1.16	2	6.0	0.176	65.6
03/12/2019	16:06:59	1.17	3	1.0	0.499	120.6
03/12/2019	16:07:59	1.17	3	2.0	0.553	102.2
03/12/2019	16:08:59	1.17	3	3.0	0.481	140.3
03/12/2019	16:09:59	1.17	3	4.0	0.507	134.9
03/12/2019	16:10:59	1.18	3	5.0	0.481	143.8
03/12/2019	16:11:59	1.18	3	6.0	0.472	133.9
03/12/2019	16:12:59	1.18	3	7.0	0.405	136.1
03/12/2019	16:13:59	1.18	3	8.0	0.397	139.1
03/12/2019	16:14:59	1.18	3	9.0	0.465	137.9
03/12/2019	16:15:59	1.19	3	10.0	0.406	133.0
03/12/2019	16:16:59	1.19	3	11.0	0.477	144.2
03/12/2019	16:17:59	1.19	3	12.0	0.413	129.7
03/12/2019	16:18:59	1.19	3	13.0	0.403	134.3
03/12/2019	16:19:59	1.19	3	14.0	0.453	132.7
03/12/2019	16:20:59	1.19	3	15.0	0.427	132.1
03/12/2019	16:29:59	1.18	1	1.0	0.073	126.9
03/12/2019	16:30:59	1.18	1	2.0	0.161	86.9
03/12/2019	16:31:59	1.18	1	3.0	0.007	267.4
03/12/2019	16:32:59	1.18	1	4.0	0.142	280.4
03/12/2019	16:39:19	1.15	2	1.0	0.100	54.9
03/12/2019	16:40:19	1.16	2	2.0	0.162	76.2

03/12/2019	16:41:19	1.16	2	3.0	0.216	62.3
03/12/2019	16:42:19	1.16	2	4.0	0.235	60.9
03/12/2019	16:43:19	1.16	2	5.0	0.212	60.2
03/12/2019	16:44:19	1.16	2	6.0	0.164	56.6
03/12/2019	16:51:59	1.14	3	1.0	0.559	106.7
03/12/2019	16:52:59	1.14	3	2.0	0.419	143.1
03/12/2019	16:53:59	1.14	3	3.0	0.449	134.0
03/12/2019	16:54:59	1.14	3	4.0	0.375	146.9
03/12/2019	16:55:59	1.14	3	5.0	0.437	138.1
03/12/2019	16:56:59	1.14	3	6.0	0.420	134.9
03/12/2019	16:57:59	1.14	3	7.0	0.434	137.0
03/12/2019	16:58:59	1.14	3	8.0	0.451	137.2
03/12/2019	16:59:59	1.14	3	9.0	0.498	135.3
03/12/2019	17:01:59	1.14	3	10.0	0.436	132.2
03/12/2019	17:02:59	1.14	3	11.0	0.417	134.6
03/12/2019	17:03:59	1.14	3	12.0	0.374	138.1
03/12/2019	17:04:59	1.14	3	13.0	0.479	134.6
03/12/2019	17:05:59	1.09	3	14.0	0.480	132.0
03/12/2019	17:06:59	1.09	3	15.0	0.405	123.0
03/12/2019	17:15:39	1.08	1	1.0	0.110	108.8
03/12/2019	17:16:39	1.08	1	2.0	0.070	81.4
03/12/2019	17:17:39	1.08	1	3.0	0.000	43.7
03/12/2019	17:18:39	1.08	1	4.0	0.129	258.3
03/12/2019	17:24:39	1.05	2	1.0	0.197	24.1
03/12/2019	17:25:39	1.03	2	2.0	0.211	87.7
03/12/2019	17:26:39	1.03	2	3.0	0.214	68.4
03/12/2019	17:27:39	1.03	2	4.0	0.208	64.3
03/12/2019	17:28:39	1.03	2	5.0	0.196	68.4
03/12/2019	17:29:39	1.03	2	6.0	0.138	69.6
03/12/2019	17:40:19	0.94	3	1.0	0.512	126.2
03/12/2019	17:41:19	0.94	3	2.0	0.575	122.9
03/12/2019	17:42:19	0.94	3	3.0	0.531	128.3
03/12/2019	17:43:19	0.94	3	4.0	0.548	129.7
03/12/2019	17:44:19	0.94	3	5.0	0.584	131.2
03/12/2019	17:45:19	0.90	3	6.0	0.546	130.1
03/12/2019	17:46:19	0.90	3	7.0	0.558	121.1
03/12/2019	17:47:19	0.90	3	8.0	0.442	128.0
03/12/2019	17:48:19	0.90	3	9.0	0.547	129.0
03/12/2019	17:49:19	0.90	3	10.0	0.491	127.0
03/12/2019	17:50:19	0.85	3	11.0	0.542	122.1
03/12/2019	17:51:19	0.85	3	12.0	0.262	162.9
03/12/2019	17:52:19	0.85	3	13.0	0.234	183.7
03/12/2019	17:53:19	0.85	3	14.0	0.293	204.4
03/12/2019	17:54:19	0.85	3	15.0	0.259	210.7
03/12/2019	18:03:19	0.80	1	1.0	0.068	27.9
03/12/2019	18:04:19	0.80	1	2.0	0.196	278.2
03/12/2019	18:05:19	0.73	1	3.0	0.036	291.6
03/12/2019	18:06:19	0.73	1	4.0	0.000	193.9
03/12/2019	18:07:19	0.73	1	5.0	0.000	205.7
03/12/2019	18:13:39	0.72	2	1.0	0.166	1.7
03/12/2019	18:14:39	0.72	2	2.0	0.158	83.2
03/12/2019	18:15:39	0.64	2	3.0	0.181	75.5
03/12/2019	18:16:39	0.64	2	4.0	0.172	77.6
03/12/2019	18:17:39	0.64	2	5.0	0.113	58.2
03/12/2019	18:18:39	0.64	2	6.0	0.079	84.2
03/12/2019	18:25:19	0.57	1	1.0	0.217	307.9
03/12/2019	18:26:19	0.57	1	2.0	0.010	303.0

03/12/2019	18:27:19	0.57	1	3.0	0.056	308.1
03/12/2019	18:28:19	0.57	1	4.0	0.008	298.4
03/12/2019	18:29:19	0.57	1	5.0	0.133	285.8
03/12/2019	18:42:59	0.43	2	1.0	0.126	61.8
03/12/2019	18:43:59	0.43	2	2.0	0.113	44.1
03/12/2019	18:44:59	0.43	2	3.0	0.153	76.3
03/12/2019	18:45:59	0.37	2	4.0	0.127	72.2
03/12/2019	18:46:59	0.37	2	5.0	0.138	87.3
03/12/2019	18:47:59	0.37	2	6.0	0.000	66.6
03/12/2019	18:53:39	0.32	1	1.0	0.120	297.0
03/12/2019	18:54:39	0.32	1	2.0	0.050	329.4
03/12/2019	18:55:39	0.27	1	3.0	0.006	298.8
03/12/2019	18:56:39	0.27	1	4.0	0.007	267.7
03/12/2019	19:04:19	0.22	2	1.0	0.212	332.3
03/12/2019	19:05:19	0.18	2	2.0	0.123	71.9
03/12/2019	19:06:19	0.18	2	3.0	0.132	80.1
03/12/2019	19:07:19	0.18	2	4.0	0.081	83.0
03/12/2019	19:08:19	0.18	2	5.0	0.087	104.3
03/12/2019	19:15:19	0.08	1	1.0	0.114	68.7
03/12/2019	19:16:19	0.08	1	2.0	0.000	357.7
03/12/2019	19:17:19	0.08	1	3.0	0.154	281.5
03/12/2019	19:18:19	0.08	1	4.0	0.081	287.7
03/12/2019	19:26:59	-0.02	2	1.0	0.127	343.3
03/12/2019	19:27:59	-0.02	2	2.0	0.104	70.5
03/12/2019	19:28:59	-0.02	2	3.0	0.107	50.2
03/12/2019	19:29:59	-0.02	2	4.0	0.104	83.1
03/12/2019	19:30:59	-0.08	2	5.0	0.082	58.8
03/12/2019	19:37:19	-0.13	1	1.0	0.045	11.0
03/12/2019	19:38:19	-0.13	1	2.0	0.233	280.5
03/12/2019	19:39:19	-0.13	1	3.0	0.027	299.3
03/12/2019	19:40:19	-0.19	1	4.0	0.000	200.3
03/12/2019	19:50:39	-0.30	2	1.0	0.080	28.9
03/12/2019	19:51:39	-0.30	2	2.0	0.073	97.7
03/12/2019	19:52:39	-0.30	2	3.0	0.047	120.6
03/12/2019	19:53:39	-0.30	2	4.0	0.089	118.1
03/12/2019	19:54:39	-0.30	2	5.0	0.008	147.6
03/12/2019	20:00:59	-0.39	1	1.0	0.013	56.3
03/12/2019	20:01:59	-0.39	1	2.0	0.217	284.6
03/12/2019	20:02:59	-0.39	1	3.0	0.033	318.1
03/12/2019	20:03:59	-0.39	1	4.0	0.007	328.2
03/12/2019	20:13:39	-0.47	2	1.0	0.021	43.6
03/12/2019	20:14:39	-0.47	2	2.0	0.095	97.1
03/12/2019	20:15:39	-0.54	2	3.0	0.000	46.9
03/12/2019	20:16:39	-0.54	2	4.0	0.006	87.0

Site:	Howth						
Project number:	PH19030						
Date:	12/12/2019						
Instrument:	Valeport 106						
Date	Time [GMT]	Tide [ODM]	Station	Depth (m)	Speed (m/s)	Direction (mag)	
12/12/2019	06:32:57	-1.03	1	1.0	0.080	110.9	
12/12/2019	06:33:57	-1.03	1	1.5	0.056	121.4	
12/12/2019	06:44:17	-0.92	2	1.0	0.023	27.9	
12/12/2019	06:46:37	-0.86	2	2.0	0.021	197.7	
12/12/2019	06:47:37	-0.86	2	3.0	0.008	118.6	
12/12/2019	07:07:37	-0.60	3	1.0	0.358	279.2	
12/12/2019	07:08:37	-0.60	3	2.0	0.356	278.2	
12/12/2019	07:09:37	-0.60	3	3.0	0.299	290.3	
12/12/2019	07:10:17	-0.57	3	4.0	0.290	270.5	
12/12/2019	07:11:17	-0.57	3	5.0	0.310	284.8	
12/12/2019	07:11:57	-0.57	3	6.0	0.333	276.3	
12/12/2019	07:12:17	-0.57	3	7.0	0.270	280.2	
12/12/2019	07:12:57	-0.57	3	8.0	0.253	270.6	
12/12/2019	07:14:37	-0.57	3	9.0	0.236	256.6	
12/12/2019	07:14:37	-0.57	3	10.0	0.215	261.2	
12/12/2019	07:15:17	-0.47	3	11.0	0.260	265.1	
12/12/2019	07:15:57	-0.47	3	12.0	0.183	264.5	
12/12/2019	07:16:17	-0.47	3	13.0	0.194	250.9	
12/12/2019	07:16:37	-0.47	3	14.0	0.206	249.8	
12/12/2019	07:28:09	-0.38	1	1.0	0.209	173.8	
12/12/2019	07:30:29	-0.29	1	1.5	0.123	211.4	
12/12/2019	07:37:29	-0.26	2	1.0	0.123	65	
12/12/2019	07:38:29	-0.26	2	2.0	0.073	57.9	
12/12/2019	07:39:28	-0.26	2	3.0	0.010	26.8	
12/12/2019	07:40:28	-0.19	2	4.0	0.019	271.1	
12/12/2019	07:41:29	-0.19	2	4.5	0.086	133.4	
12/12/2019	07:49:49	-0.12	3	1.0	0.363	259.9	
12/12/2019	07:50:29	-0.06	3	2.0	0.281	268.4	
12/12/2019	07:51:09	-0.06	3	3.0	0.254	264.9	
12/12/2019	07:51:49	-0.06	3	4.0	0.202	261.4	
12/12/2019	07:52:29	-0.06	3	5.0	0.204	253.7	
12/12/2019	07:53:09	-0.06	3	6.0	0.244	266.5	
12/12/2019	07:53:49	-0.06	3	7.0	0.249	257.5	
12/12/2019	07:54:29	-0.06	3	8.0	0.287	252.2	
12/12/2019	07:55:09	0.00	3	9.0	0.245	255	
12/12/2019	07:55:49	0.00	3	10.0	0.250	251.3	
12/12/2019	07:56:29	0.00	3	11.0	0.214	246.5	
12/12/2019	07:57:09	0.00	3	12.0	0.200	230.7	
12/12/2019	07:57:49	0.00	3	13.0	0.252	235.6	
12/12/2019	07:58:29	0.00	3	14.0	0.209	234	
12/12/2019	08:16:09	0.25	1	1.0	0.117	166.1	
12/12/2019	08:17:09	0.25	1	2.0	0.131	170	
12/12/2019	08:18:09	0.25	1	3.0	0.150	189.7	
12/12/2019	08:19:09	0.25	1	3.5	0.146	115.8	
12/12/2019	08:25:09	0.37	2	1.0	0.093	47.9	
12/12/2019	08:26:09	0.37	2	2.0	0.048	320.6	
12/12/2019	08:27:08	0.37	2	3.0	0.082	248.7	
12/12/2019	08:28:08	0.37	2	4.0	0.006	243.1	
12/12/2019	08:29:08	0.37	2	5.0	0.031	159.8	
12/12/2019	08:37:09	0.48	3	1.0	0.124	179.6	
12/12/2019	08:37:49	0.48	3	2.0	0.412	228.5	
12/12/2019	08:38:29	0.48	3	3.0	0.355	239.2	
12/12/2019	08:39:09	0.48	3	4.0	0.275	252.8	
12/12/2019	08:39:49	0.48	3	5.0	0.256	255.9	
12/12/2019	08:40:29	0.54	3	6.0	0.149	253	
12/12/2019	08:41:09	0.54	3	7.0	0.183	248.3	
12/12/2019	08:41:49	0.54	3	8.0	0.129	232.3	
12/12/2019	08:42:29	0.54	3	9.0	0.164	247.2	
12/12/2019	08:43:09	0.54	3	10.0	0.174	238.9	
12/12/2019	08:43:49	0.54	3	11.0	0.207	234.4	
12/12/2019	08:44:29	0.54	3	12.0	0.217	237.8	
12/12/2019	08:45:09	0.60	3	13.0	0.220	225.6	
12/12/2019	08:45:49	0.60	3	14.0	0.219	236.1	
12/12/2019	08:46:29	0.60	3	14.5	0.268	215.1	

12/12/2019	08:55:43	0.71	1	1.0	0.110	160.7
12/12/2019	08:57:03	0.71	1	2.0	0.102	153
12/12/2019	08:57:43	0.71	1	3.0	0.109	163.6
12/12/2019	08:59:43	0.71	1	3.5	0.089	170.9
12/12/2019	09:07:23	0.81	2	1.0	0.050	42.3
12/12/2019	09:08:23	0.81	2	2.0	0.043	26.7
12/12/2019	09:09:23	0.81	2	3.0	0.105	22.6
12/12/2019	09:10:23	0.87	2	4.0	0.099	76.2
12/12/2019	09:19:43	0.92	3	1.0	0.050	168.3
12/12/2019	09:20:43	0.96	3	2.0	0.091	200.5
12/12/2019	09:21:43	0.96	3	3.0	0.112	203
12/12/2019	09:22:43	0.96	3	4.0	0.108	193.8
12/12/2019	09:23:43	0.96	3	5.0	0.130	184.5
12/12/2019	09:24:43	0.96	3	6.0	0.150	191.4
12/12/2019	09:25:43	1.02	3	7.0	0.179	193
12/12/2019	09:26:43	1.02	3	8.0	0.184	196
12/12/2019	09:27:43	1.02	3	9.0	0.181	180.3
12/12/2019	09:28:43	1.02	3	10.0	0.196	177.6
12/12/2019	09:29:43	1.02	3	11.0	0.144	177.1
12/12/2019	09:30:43	1.07	3	12.0	0.153	162.8
12/12/2019	09:31:43	1.07	3	13.0	0.156	172.9
12/12/2019	09:32:43	1.07	3	14.0	0.118	163.9
12/12/2019	09:33:43	1.07	3	15.0	0.115	180
12/12/2019	09:45:23	1.22	1	1.0	0.090	146.7
12/12/2019	09:46:23	1.22	1	2.0	0.189	162.8
12/12/2019	09:47:23	1.22	1	3.0	0.110	142.2
12/12/2019	09:48:23	1.22	1	4.0	0.135	180.7
12/12/2019	09:54:02	1.24	2	1.0	0.000	55.4
12/12/2019	09:58:03	1.31	2	2.0	0.217	50.2
12/12/2019	09:59:03	1.31	2	3.0	0.165	64
12/12/2019	09:59:43	1.31	2	4.0	0.205	69.7
12/12/2019	10:00:23	1.33	2	5.0	0.182	60.3
12/12/2019	10:01:03	1.33	2	5.5	0.192	59.5
12/12/2019	10:13:43	1.40	3	1.0	0.360	121.2
12/12/2019	10:14:23	1.40	3	2.0	0.435	116.4
12/12/2019	10:15:03	1.47	3	3.0	0.377	128
12/12/2019	10:15:43	1.47	3	4.0	0.386	103.2
12/12/2019	10:16:23	1.47	3	5.0	0.312	97
12/12/2019	10:17:03	1.47	3	6.0	0.436	108.9
12/12/2019	10:17:43	1.47	3	7.0	0.459	121.7
12/12/2019	10:18:23	1.47	3	8.0	0.359	136.9
12/12/2019	10:19:03	1.47	3	9.0	0.352	135.5
12/12/2019	10:19:43	1.47	3	10.0	0.332	134
12/12/2019	10:20:23	1.48	3	11.0	0.410	129.7
12/12/2019	10:21:03	1.48	3	12.0	0.335	137.8
12/12/2019	10:21:43	1.48	3	13.0	0.360	135.8
12/12/2019	10:22:23	1.48	3	14.0	0.250	140.9
12/12/2019	10:23:03	1.48	3	15.0	0.257	143.8
12/12/2019	10:23:43	1.48	3	16.0	0.242	141.8
12/12/2019	10:33:23	1.55	1	1.0	0.006	283.3
12/12/2019	10:34:23	1.55	1	2.0	0.102	222.4
12/12/2019	10:35:23	1.58	1	3.0	0.125	203.8
12/12/2019	10:36:23	1.58	1	4.0	0.092	199.2
12/12/2019	10:47:43	1.66	2	1.0	0.246	89
12/12/2019	10:48:43	1.66	2	2.0	0.254	82.7
12/12/2019	10:49:43	1.66	2	3.0	0.286	69
12/12/2019	10:50:43	1.66	2	4.0	0.278	61.7
12/12/2019	10:51:43	1.66	2	5.0	0.258	58.4
12/12/2019	10:52:43	1.66	2	6.0	0.272	54.8
12/12/2019	10:59:43	1.68	3	1.0	0.667	99.8
12/12/2019	11:00:43	1.69	3	2.0	0.491	145.2
12/12/2019	11:01:43	1.69	3	3.0	0.575	136.1
12/12/2019	11:02:03	1.69	3	4.0	0.525	148.6
12/12/2019	11:02:23	1.69	3	5.0	0.565	138.3
12/12/2019	11:03:03	1.69	3	6.0	0.617	139.5
12/12/2019	11:03:43	1.69	3	7.0	0.512	133.2
12/12/2019	11:04:43	1.69	3	8.0	0.358	133.9
12/12/2019	11:05:03	1.69	3	9.0	0.506	135.9
12/12/2019	11:05:43	1.69	3	10.0	0.713	128.2
12/12/2019	11:06:03	1.69	3	11.0	0.581	141.4

12/12/2019	11:06:23	1.69	3	12.0	0.554	135.2
12/12/2019	11:06:43	1.69	3	13.0	0.573	133.2
12/12/2019	11:18:23	1.71	1	1.0	0.100	146.7
12/12/2019	11:19:23	1.71	1	2.0	0.025	148.7
12/12/2019	11:20:23	1.72	1	3.0	0.024	114.7
12/12/2019	11:21:23	1.72	1	4.0	0.049	314
12/12/2019	11:27:23	1.72	2	1.0	0.275	67.6
12/12/2019	11:28:23	1.72	2	2.0	0.337	73.3
12/12/2019	11:29:23	1.72	2	3.0	0.348	67.5
12/12/2019	11:30:23	1.73	2	4.0	0.345	69.4
12/12/2019	11:31:23	1.73	2	5.0	0.350	64.3
12/12/2019	11:32:23	1.73	2	6.0	0.305	61.4
12/12/2019	11:48:23	1.69	3	1.0	0.743	137.7
12/12/2019	11:49:23	1.69	3	2.0	0.800	130
12/12/2019	11:50:03	1.68	3	3.0	0.804	128.1
12/12/2019	11:50:43	1.68	3	4.0	0.612	137.8
12/12/2019	11:51:23	1.68	3	5.0	0.653	129.2
12/12/2019	11:52:03	1.68	3	6.0	0.672	131.5
12/12/2019	11:52:43	1.68	3	7.0	0.623	132.6
12/12/2019	11:54:23	1.68	3	8.0	0.604	134.2
12/12/2019	11:55:03	1.67	3	9.0	0.618	124.6
12/12/2019	11:55:43	1.67	3	10.0	0.600	133.1
12/12/2019	11:56:23	1.67	3	11.0	0.632	124.5
12/12/2019	11:57:03	1.67	3	12.0	0.551	130.8
12/12/2019	11:57:43	1.67	3	13.0	0.574	132.2
12/12/2019	11:58:43	1.67	3	15.0	0.527	131.5
12/12/2019	11:59:23	1.67	3	16.0	0.522	0
12/12/2019	12:15:03	1.55	1	1.0	0.055	120.6
12/12/2019	12:16:03	1.55	1	2.0	0.076	20.8
12/12/2019	12:17:03	1.55	1	3.0	0.092	326
12/12/2019	12:18:03	1.55	1	4.0	0.026	291.8
12/12/2019	12:25:43	1.48	2	1.0	0.251	77.4
12/12/2019	12:26:43	1.48	2	2.0	0.260	69
12/12/2019	12:27:43	1.48	2	3.0	0.246	73.5
12/12/2019	12:28:43	1.48	2	4.0	0.281	68.7
12/12/2019	12:29:43	1.48	2	5.0	0.236	62.1
12/12/2019	12:30:43	1.44	2	6.0	0.265	54.9
12/12/2019	13:17:49	0.94	1	1.0	0.062	304.5
12/12/2019	13:18:49	0.94	1	2.0	0.204	252.4
12/12/2019	13:19:49	0.94	1	3.0	0.048	186.7
12/12/2019	13:20:49	0.87	1	4.0	0.043	217.7
12/12/2019	13:26:49	0.80	2	1.0	0.213	75.1
12/12/2019	13:27:49	0.80	2	2.0	0.243	76.3
12/12/2019	13:28:49	0.80	2	3.0	0.228	72.1
12/12/2019	13:32:49	0.73	2	4.0	0.238	63.3
12/12/2019	13:33:49	0.73	2	5.0	0.170	56.4
12/12/2019	13:42:49	0.58	3	1.0	0.711	108.3
12/12/2019	13:43:49	0.58	3	2.0	0.709	108
12/12/2019	13:44:49	0.58	3	3.0	0.739	113.9
12/12/2019	13:45:49	0.50	3	4.0	0.719	108
12/12/2019	13:46:49	0.50	3	5.0	0.681	113.7
12/12/2019	13:47:49	0.50	3	6.0	0.675	110.2
12/12/2019	13:48:49	0.50	3	7.0	0.624	106.6
12/12/2019	13:49:49	0.50	3	8.0	0.655	112.8
12/12/2019	13:50:49	0.42	3	9.0	0.715	110.7
12/12/2019	13:51:49	0.42	3	10.0	0.657	101.4
12/12/2019	13:52:49	0.42	3	11.0	0.688	107.4
12/12/2019	13:53:49	0.42	3	12.0	0.742	113.8
12/12/2019	13:54:49	0.42	3	13.0	0.601	110.3
12/12/2019	13:55:49	0.36	3	14.0	0.686	104.5
12/12/2019	14:07:49	0.19	1	1.0	0.009	255.7
12/12/2019	14:08:49	0.19	1	2.0	0.008	314
12/12/2019	14:09:49	0.19	1	3.0	0.000	329.3
12/12/2019	14:14:09	0.10	2	1.0	0.222	56.8
12/12/2019	14:15:09	0.03	2	2.0	0.069	71.3
12/12/2019	14:16:09	0.03	2	3.0	0.208	51.7
12/12/2019	14:17:09	0.03	2	4.0	0.189	52.2
12/12/2019	14:18:09	0.03	2	5.0	0.096	44.8
12/12/2019	14:25:09	-0.13	3	1.0	0.505	108.5
12/12/2019	14:26:09	-0.13	3	3.0	0.627	100.5

12/12/2019	14:27:09	-0.13	3	5.0	0.610	117.3
12/12/2019	14:28:09	-0.13	3	7.0	0.536	103.5
12/12/2019	14:29:09	-0.13	3	9.0	0.529	111.6
12/12/2019	14:30:09	-0.21	3	11.0	0.537	91.9
12/12/2019	14:31:09	-0.21	3	13.0	0.551	114.3
12/12/2019	14:32:09	-0.21	3	14.0	0.518	104.5
12/12/2019	14:44:09	-0.37	1	1.0	0.132	10.8
12/12/2019	14:45:09	-0.42	1	2.0	0.125	188.6
12/12/2019	14:46:09	-0.42	1	3.0	0.000	351.3
12/12/2019	14:51:09	-0.50	2	1.0	0.136	62.9
12/12/2019	14:52:09	-0.50	2	2.0	0.140	50
12/12/2019	14:53:09	-0.50	2	3.0	0.026	63.1
12/12/2019	14:54:09	-0.50	2	4.0	0.032	39.4
12/12/2019	15:05:49	-0.73	3	1.0	0.427	94.5
12/12/2019	15:06:49	-0.73	3	3.0	0.401	91.8
12/12/2019	15:07:49	-0.73	3	5.0	0.418	107.5
12/12/2019	15:08:49	-0.73	3	7.0	0.387	85
12/12/2019	15:09:49	-0.73	3	9.0	0.276	76.9
12/12/2019	15:10:49	-0.80	3	11.0	0.300	72.6
12/12/2019	15:11:49	-0.80	3	13.0	0.320	62.1
12/12/2019	15:12:49	-0.80	3	14.0	0.210	74.7
12/12/2019	15:30:49	-1.04	1	1.0	0.000	267.6
12/12/2019	15:31:49	-1.04	1	2.0	0.053	280
12/12/2019	15:39:49	-1.14	2	1.0	0.022	11.1
12/12/2019	15:40:49	-1.19	2	2.0	0.014	15.6
12/12/2019	15:41:49	-1.19	2	3.0	0.000	350.8
12/12/2019	15:50:49	-1.31	3	1.0	0.143	9.1
12/12/2019	15:51:49	-1.31	3	3.0	0.099	338.6
12/12/2019	15:52:49	-1.31	3	5.0	0.023	233.6
12/12/2019	15:53:49	-1.31	3	7.0	0.009	94.3
12/12/2019	15:54:49	-1.31	3	9.0	0.192	351.5
12/12/2019	15:55:49	-1.34	3	11.0	0.165	336.9
12/12/2019	15:57:29	-1.34	3	13.0	0.007	290.8
12/12/2019	15:58:29	-1.34	3	14.0	0.045	178.6
12/12/2019	16:08:09	-1.40	1	1.0	0.006	226.3
12/12/2019	16:09:09	-1.40	1	2.0	0.115	228.9
12/12/2019	16:14:49	-1.45	2	1.0	0.046	246.6
12/12/2019	16:15:49	-1.48	2	2.0	0.075	262.5
12/12/2019	16:16:49	-1.48	2	3.0	0.102	278.3
12/12/2019	16:25:49	-1.54	3	1.0	0.372	359.2
12/12/2019	16:26:49	-1.54	3	3.0	0.323	344.6
12/12/2019	16:27:49	-1.54	3	5.0	0.259	339.1
12/12/2019	16:28:49	-1.54	3	7.0	0.211	347.8
12/12/2019	16:29:49	-1.54	3	9.0	0.207	357.4
12/12/2019	16:30:49	-1.59	3	11.0	0.244	0.4
12/12/2019	16:31:49	-1.59	3	13.0	0.215	357.6
12/12/2019	16:41:49	-1.62	1	1.0	0.051	215.3
12/12/2019	16:42:49	-1.62	1	2.0	0.000	244.7
12/12/2019	16:48:29	-1.64	2	1.0	0.028	178.1
12/12/2019	16:49:29	-1.64	2	2.0	0.156	186.5
12/12/2019	16:50:29	-1.64	2	3.0	0.108	167
12/12/2019	16:58:49	-1.66	3	1.0	0.401	350.8
12/12/2019	16:59:49	-1.66	3	3.0	0.406	338.7
12/12/2019	17:00:49	-1.68	3	5.0	0.347	344.4
12/12/2019	17:01:49	-1.68	3	7.0	0.321	329.5
12/12/2019	17:02:49	-1.68	3	9.0	0.300	342.4
12/12/2019	17:03:49	-1.68	3	11.0	0.287	335.5
12/12/2019	17:04:49	-1.68	3	13.0	0.183	326.1
12/12/2019	17:13:49	-1.68	1	1.0	0.000	256.1
12/12/2019	17:19:49	-1.67	2	1.0	0.106	132.2
12/12/2019	17:20:49	-1.63	2	2.0	0.082	124.2
12/12/2019	17:21:49	-1.63	2	3.0	0.025	95.2

12/12/2019	17:31:09	-1.63	3	1.0	0.365	326.1
12/12/2019	17:32:09	-1.63	3	3.0	0.361	320.4
12/12/2019	17:33:09	-1.63	3	5.0	0.371	315.3
12/12/2019	17:34:09	-1.63	3	7.0	0.259	328
12/12/2019	17:35:09	-1.60	3	9.0	0.280	314.7
12/12/2019	17:36:09	-1.60	3	11.0	0.290	306.3
12/12/2019	17:37:09	-1.60	3	13.0	0.243	307.1
12/12/2019	17:47:49	-1.56	1	1.0	0.000	221.3
12/12/2019	17:48:49	-1.56	1	2.0	0.000	244.2
12/12/2019	17:58:29	-1.49	2	1.0	0.027	93.3
12/12/2019	17:59:29	-1.49	2	2.0	0.105	105.4
12/12/2019	18:00:29	-1.46	2	3.0	0.062	81.4
12/12/2019	18:11:49	-1.38	3	1.0	0.190	320.1
12/12/2019	18:12:49	-1.38	3	3.0	0.247	294.4
12/12/2019	18:13:49	-1.38	3	5.0	0.237	294.2
12/12/2019	18:14:49	-1.38	3	7.0	0.216	269
12/12/2019	18:15:49	-1.35	3	9.0	0.201	263
12/12/2019	18:16:49	-1.35	3	11.0	0.208	280.4
12/12/2019	18:17:49	-1.35	3	13.0	0.228	257.5
12/12/2019	18:28:09	-1.25	1	1.0	0.049	113.4
12/12/2019	18:29:09	-1.25	1	2.0	0.108	146.8
12/12/2019	18:35:29	-1.15	2	1.0	0.032	87.7
12/12/2019	18:36:29	-1.15	2	2.0	0.150	9.9
12/12/2019	18:37:29	-1.15	2	3.0	0.114	83.1
12/12/2019	18:38:29	-1.15	2	4.0	0.091	38.2
12/12/2019	18:47:09	-1.02	3	1.0	0.343	306.2
12/12/2019	18:48:09	-1.02	3	3.0	0.334	298.9
12/12/2019	18:49:09	-1.02	3	5.0	0.469	292.6
12/12/2019	18:50:09	-0.94	3	7.0	0.395	291.5
12/12/2019	18:51:09	-0.94	3	9.0	0.411	289.8
12/12/2019	18:52:09	-0.94	3	11.0	0.287	279
12/12/2019	18:53:09	-0.94	3	13.0	0.392	287.8
12/12/2019	19:03:29	-0.84	1	1.0	0.085	178.5
12/12/2019	19:04:29	-0.84	1	2.0	0.000	208.9
12/12/2019	19:11:49	-0.70	2	1.0	0.125	115.3
12/12/2019	19:12:49	-0.70	2	2.0	0.136	78
12/12/2019	19:13:49	-0.70	2	3.0	0.118	83.2
12/12/2019	19:14:49	-0.70	2	4.0	0.097	92.9
12/12/2019	19:23:49	-0.56	3	1.0	0.316	306.2
12/12/2019	19:24:49	-0.56	3	3.0	0.290	308.3
12/12/2019	19:25:49	-0.50	3	5.0	0.373	302.4
12/12/2019	19:26:49	-0.50	3	7.0	0.318	298.6
12/12/2019	19:27:49	-0.50	3	9.0	0.273	300.9
12/12/2019	19:28:49	-0.50	3	11.0	0.279	291.5
12/12/2019	19:29:49	-0.50	3	13.0	0.293	296.6
12/12/2019	19:30:49	-0.47	3	14.0	0.267	290.1
12/12/2019	19:39:49	-0.38	1	1.0	0.019	218.2
12/12/2019	19:40:49	-0.32	1	2.0	0.146	179.6
12/12/2019	19:41:49	-0.32	1	3.0	0.000	231.8
12/12/2019	19:48:29	-0.22	2	1.0	0.022	80.4
12/12/2019	19:49:29	-0.22	2	2.0	0.051	65.3
12/12/2019	19:50:29	-0.20	2	3.0	0.081	58
12/12/2019	19:51:29	-0.20	2	4.0	0.072	39.2
12/12/2019	20:00:29	-0.03	3	1.0	0.091	226.8
12/12/2019	20:01:29	-0.03	3	3.0	0.291	281.8
12/12/2019	20:02:29	-0.03	3	5.0	0.328	276.2
12/12/2019	20:03:29	-0.03	3	7.0	0.296	273
12/12/2019	20:04:29	-0.03	3	9.0	0.285	273.1
12/12/2019	20:05:29	0.04	3	11.0	0.240	251.3
12/12/2019	20:06:29	0.04	3	13.0	0.319	265.6
12/12/2019	20:07:29	0.04	3	14.0	0.323	263.4
12/12/2019	20:17:29	0.19	1	1.0	0.023	143.3
12/12/2019	20:18:29	0.19	1	2.0	0.006	176.4
12/12/2019	20:19:29	0.19	1	3.0	0.000	238.2
12/12/2019	20:25:49	0.33	2	1.0	0.173	47.7
12/12/2019	20:26:49	0.33	2	2.0	0.120	73.1
12/12/2019	20:27:49	0.33	2	3.0	0.113	52.4
12/12/2019	20:28:49	0.33	2	4.0	0.138	47.3
12/12/2019	20:29:49	0.33	2	5.0	0.129	46

Site:	Howth					
Project number:	PH19030					
Date:	17/12/2019					
Instrument:	Valeport 106					
Date	Time [GMT]	Tide [ODM]	Station	Depth (m)	Speed (m/s)	Direction (mag)
17/12/2019	06:23:51	-0.62	1	1	0.006	268.1
17/12/2019	06:24:51	-0.62	1	1.5	0.048	186.2
17/12/2019	07:01:36	-1.02	2	1	0.011	269.7
17/12/2019	07:02:36	-1.02	2	2	0.012	274.6
17/12/2019	07:03:36	-1.02	2	3	0.043	284.5
17/12/2019	07:16:06	-1.15	3	1	0.277	13.1
17/12/2019	07:17:21	-1.15	3	2	0.231	15.4
17/12/2019	07:18:06	-1.15	3	3	0.289	7.1
17/12/2019	07:19:06	-1.15	3	4	0.257	7.5
17/12/2019	07:20:06	-1.18	3	5	0.250	5.2
17/12/2019	07:21:06	-1.18	3	6	0.293	359.8
17/12/2019	07:22:06	-1.18	3	7	0.271	10.0
17/12/2019	07:23:06	-1.18	3	8	0.266	6.8
17/12/2019	07:24:06	-1.18	3	9	0.275	12.5
17/12/2019	07:25:06	-1.23	3	10	0.204	14.3
17/12/2019	07:26:06	-1.23	3	11	0.253	11.1
17/12/2019	07:27:06	-1.23	3	12	0.232	356.7
17/12/2019	07:28:06	-1.23	3	13	0.188	1.8
17/12/2019	07:43:36	-1.3	1	1	0.000	358.8
17/12/2019	07:51:36	-1.35	2	1	0.156	197.3
17/12/2019	07:52:36	-1.35	2	2	0.048	180.8
17/12/2019	07:53:36	-1.35	2	3	0.019	285.8
17/12/2019	08:01:06	-1.37	3	1	0.223	342.6
17/12/2019	08:02:06	-1.37	3	2	0.357	349.8
17/12/2019	08:03:06	-1.37	3	3	0.340	339.4
17/12/2019	08:04:06	-1.37	3	4	0.321	341.3
17/12/2019	08:05:06	-1.39	3	5	0.327	344.6
17/12/2019	08:06:06	-1.39	3	6	0.311	333.1
17/12/2019	08:07:06	-1.39	3	7	0.364	331.1
17/12/2019	08:08:06	-1.39	3	8	0.326	340.8
17/12/2019	08:09:06	-1.39	3	9	0.310	334.3
17/12/2019	08:10:06	-1.4	3	10	0.286	337.6
17/12/2019	08:11:06	-1.4	3	11	0.329	336.9
17/12/2019	08:12:06	-1.4	3	12	0.323	334.0
17/12/2019	08:13:06	-1.4	3	13	0.266	340.4
17/12/2019	08:26:06	-1.4	1	1	0.000	358.2
17/12/2019	08:27:06	-1.4	1	2	0.078	327.8
17/12/2019	08:28:07	-1.4	1	2.5	0.000	34.3
17/12/2019	08:33:37	-1.41	2	1	0.073	103.5
17/12/2019	08:35:37	-1.41	2	2	0.019	37.0
17/12/2019	08:36:37	-1.41	2	3	0.058	66.5
17/12/2019	08:44:07	-1.38	3	1	0.125	348.0
17/12/2019	08:45:07	-1.37	3	2	0.321	329.6
17/12/2019	08:46:07	-1.37	3	3	0.313	324.2
17/12/2019	08:47:07	-1.37	3	4	0.285	329.3
17/12/2019	08:48:07	-1.37	3	5	0.343	322.6
17/12/2019	08:49:07	-1.37	3	6	0.312	320.7
17/12/2019	08:50:07	-1.36	3	7	0.266	315.0
17/12/2019	08:51:07	-1.36	3	8	0.276	319.0
17/12/2019	08:52:07	-1.36	3	9	0.255	323.7
17/12/2019	08:53:07	-1.36	3	10	0.384	319.4
17/12/2019	08:54:07	-1.36	3	11	0.275	324.7
17/12/2019	08:55:07	-1.34	3	12	0.300	329.6
17/12/2019	08:56:07	-1.34	3	13	0.268	317.4
17/12/2019	08:05:37	-1.39	1	1	0.106	178.0
17/12/2019	09:14:06	-1.28	2	1	0.112	24.4
17/12/2019	09:15:06	-1.23	2	2	0.081	112.0
17/12/2019	09:16:06	-1.23	2	3	0.072	89.5
17/12/2019	09:24:07	-1.21	3	1	0.309	198.1
17/12/2019	09:25:07	-1.18	3	2	0.348	305.5
17/12/2019	09:26:07	-1.18	3	3	0.377	310.0
17/12/2019	09:26:37	-1.18	3	4	0.231	299.9
17/12/2019	09:27:07	-1.18	3	5	0.388	309.5
17/12/2019	09:27:37	-1.18	3	6	0.346	311.7

17/12/2019	09:28:07	-1.18	3	7	0.334	303.5
17/12/2019	09:28:37	-1.18	3	8	0.379	317.2
17/12/2019	09:29:07	-1.18	3	9	0.456	306.3
17/12/2019	09:29:37	-1.18	3	10	0.346	301.3
17/12/2019	09:30:07	-1.15	3	11	0.404	295.1
17/12/2019	09:30:37	-1.15	3	12	0.412	299.7
17/12/2019	09:31:07	-1.15	3	13	0.300	297.2
17/12/2019	09:55:07	-0.91	1	1	0.087	147.6
17/12/2019	09:56:07	-0.91	1	2	0.063	172.8
17/12/2019	09:57:07	-0.91	1	3	0.034	173.4
17/12/2019	10:09:06	-0.81	2	1	0.046	62.3
17/12/2019	10:10:06	-0.76	2	2	0.113	44.3
17/12/2019	10:11:06	-0.76	2	3	0.077	86.5
17/12/2019	10:12:06	-0.76	2	3.5	0.045	76.2
17/12/2019	10:21:07	-0.67	3	1	0.247	322.4
17/12/2019	10:21:37	-0.67	3	2	0.355	307.6
17/12/2019	10:22:07	-0.67	3	3	0.340	310.3
17/12/2019	10:22:37	-0.67	3	4	0.344	306.2
17/12/2019	10:23:07	-0.67	3	5	0.279	304.1
17/12/2019	10:23:37	-0.67	3	6	0.389	294.0
17/12/2019	10:24:07	-0.67	3	7	0.314	297.0
17/12/2019	10:24:37	-0.67	3	8	0.356	298.6
17/12/2019	10:25:07	-0.61	3	9	0.309	297.9
17/12/2019	10:25:52	-0.61	3	10	0.221	291.7
17/12/2019	10:26:22	-0.61	3	11	0.273	290.9
17/12/2019	10:26:52	-0.61	3	12	0.248	280.1
17/12/2019	10:27:22	-0.61	3	13	0.201	283.3
17/12/2019	10:27:52	-0.61	3	14	0.271	278.8
17/12/2019	10:36:37	-0.49	1	1	0.142	159.0
17/12/2019	10:37:37	-0.49	1	2	0.075	144.1
17/12/2019	10:38:07	-0.49	1	2.5	0.010	135.8
17/12/2019	10:43:52	-0.44	2	1	0.084	83.0
17/12/2019	10:44:52	-0.44	2	2	0.115	74.0
17/12/2019	10:45:52	-0.4	2	3	0.099	105.3
17/12/2019	10:46:52	-0.4	2	4	0.113	82.9
17/12/2019	10:55:22	-0.27	3	1	0.160	297.8
17/12/2019	10:55:52	-0.27	3	2	0.165	299.9
17/12/2019	10:56:22	-0.27	3	3	0.274	300.4
17/12/2019	10:56:52	-0.27	3	4	0.250	292.8
17/12/2019	10:57:22	-0.27	3	5	0.285	293.3
17/12/2019	10:57:52	-0.27	3	6	0.265	294.3
17/12/2019	10:58:22	-0.27	3	7	0.302	284.2
17/12/2019	10:58:52	-0.27	3	8	0.191	287.0
17/12/2019	10:59:22	-0.27	3	9	0.232	289.2
17/12/2019	11:00:07	-0.22	3	10	0.248	293.4
17/12/2019	11:00:37	-0.22	3	11	0.223	292.0
17/12/2019	11:01:07	-0.22	3	12	0.215	280.2
17/12/2019	11:01:37	-0.22	3	13	0.274	281.0
17/12/2019	11:02:07	-0.22	3	14	0.245	289.5
17/12/2019	11:11:07	-0.09	1	1	0.154	183.6
17/12/2019	11:12:07	-0.09	1	2	0.183	207.6
17/12/2019	11:13:07	-0.09	1	3	0.103	206.8
17/12/2019	11:18:37	-0.04	2	1	0.111	10.9
17/12/2019	11:19:37	-0.04	2	2	0.133	70.2
17/12/2019	11:20:37	0.01	2	3	0.095	78.4
17/12/2019	11:21:37	0.01	2	4	0.144	60.3
17/12/2019	11:30:37	0.12	3	1	0.233	242.8
17/12/2019	11:31:07	0.12	3	2	0.188	238.3
17/12/2019	11:31:37	0.12	3	3	0.250	249.3
17/12/2019	11:32:07	0.12	3	4	0.220	246.9
17/12/2019	11:32:37	0.12	3	5	0.233	257.6
17/12/2019	11:33:07	0.12	3	6	0.174	272.3
17/12/2019	11:33:37	0.12	3	7	0.229	267.4
17/12/2019	11:34:07	0.12	3	8	0.187	263.8
17/12/2019	11:34:37	0.12	3	9	0.280	252.6
17/12/2019	11:35:07	0.18	3	10	0.246	263.6
17/12/2019	11:35:37	0.18	3	11	0.249	256.9
17/12/2019	11:36:07	0.18	3	12	0.246	256.0
17/12/2019	11:36:37	0.18	3	13	0.198	248.4
17/12/2019	11:37:07	0.18	3	14	0.126	225.9

17/12/2019	11:37:37	0.18	3	15	0.176	246.6
17/12/2019	11:46:37	0.29	1	1	0.152	162.2
17/12/2019	11:47:37	0.29	1	2	0.000	112.9
17/12/2019	11:48:37	0.29	1	3	0.000	359.7
17/12/2019	11:54:37	0.35	2	1	0.102	120.1
17/12/2019	11:55:37	0.4	2	2	0.139	8.8
17/12/2019	11:56:37	0.4	2	3	0.090	85.5
17/12/2019	11:57:52	0.4	2	4	0.096	81.1
17/12/2019	11:58:52	0.4	2	4.5	0.143	60.8
17/12/2019	12:06:07	0.51	3	1	0.158	262.0
17/12/2019	12:06:37	0.51	3	2	0.136	252.6
17/12/2019	12:07:07	0.51	3	3	0.171	244.8
17/12/2019	12:08:07	0.51	3	4	0.163	265.4
17/12/2019	12:08:37	0.51	3	5	0.185	274.5
17/12/2019	12:09:37	0.51	3	6	0.178	283.6
17/12/2019	12:10:07	0.57	3	7	0.171	277.1
17/12/2019	12:10:37	0.57	3	8	0.221	263.5
17/12/2019	12:11:07	0.57	3	9	0.163	260.4
17/12/2019	12:11:37	0.57	3	10	0.150	274.0
17/12/2019	12:12:07	0.57	3	11	0.183	278.1
17/12/2019	12:12:37	0.57	3	12	0.169	281.0
17/12/2019	12:13:07	0.57	3	13	0.173	251.1
17/12/2019	12:13:37	0.57	3	14	0.146	245.5
17/12/2019	12:14:07	0.57	3	15	0.142	240.4
17/12/2019	12:31:07	0.78	1	1	0.057	145.9
17/12/2019	12:32:07	0.78	1	2	0.008	125.5
17/12/2019	12:33:07	0.78	1	3	0.000	101.0
17/12/2019	12:39:07	0.82	2	1	0.123	78.8
17/12/2019	12:40:07	0.86	2	2	0.242	43.7
17/12/2019	12:41:07	0.86	2	3	0.118	78.6
17/12/2019	12:42:07	0.86	2	4	0.140	65.5
17/12/2019	12:43:07	0.86	2	5	0.145	67.5
17/12/2019	12:44:07	0.86	2	5.5	0.147	53.8
17/12/2019	12:50:37	0.97	3	1	0.143	278.7
17/12/2019	12:51:37	0.97	3	2	0.258	201.4
17/12/2019	12:52:07	0.97	3	3	0.265	197.4
17/12/2019	12:52:37	0.97	3	4	0.232	204.5
17/12/2019	12:53:07	0.97	3	5	0.167	195.8
17/12/2019	12:53:37	0.97	3	6	0.135	207.0
17/12/2019	12:54:07	0.97	3	7	0.130	207.8
17/12/2019	12:54:37	0.97	3	8	0.109	209.4
17/12/2019	12:55:07	1.01	3	9	0.101	218.5
17/12/2019	12:55:37	1.01	3	10	0.078	226.7
17/12/2019	12:56:07	1.01	3	11	0.175	298.8
17/12/2019	12:56:37	1.01	3	12	0.079	243.8
17/12/2019	12:57:07	1.01	3	13	0.180	183.1
17/12/2019	12:57:37	1.01	3	14	0.083	189.2
17/12/2019	12:58:07	1.01	3	15	0.127	185.0
17/12/2019	13:24:07	1.23	1	1	0.113	196.0
17/12/2019	13:25:07	1.27	1	2	0.129	193.1
17/12/2019	13:26:07	1.27	1	3	0.109	187.5
17/12/2019	13:27:07	1.27	1	4	0.041	181.8
17/12/2019	13:33:07	1.3	2	1	0.212	62.4
17/12/2019	13:34:07	1.3	2	2	0.248	70.1
17/12/2019	13:35:07	1.33	2	3	0.219	74.4
17/12/2019	13:36:07	1.33	2	4	0.219	69.1
17/12/2019	13:37:07	1.33	2	5	0.245	65.9
17/12/2019	13:38:07	1.33	2	6	0.202	73.8
17/12/2019	13:46:07	1.4	3	1	0.376	115.5
17/12/2019	13:47:07	1.4	3	2	0.335	123.1
17/12/2019	13:48:07	1.4	3	3	0.331	118.7
17/12/2019	13:49:07	1.4	3	4	0.357	106.6
17/12/2019	13:50:07	1.43	3	5	0.382	125.0
17/12/2019	13:51:07	1.43	3	6	0.357	128.4
17/12/2019	13:52:07	1.43	3	7	0.352	132.4
17/12/2019	13:53:07	1.43	3	8	0.343	121.2
17/12/2019	13:54:07	1.43	3	9	0.281	130.8
17/12/2019	13:55:07	1.49	3	10	0.295	128.5
17/12/2019	13:56:07	1.49	3	11	0.293	132.9
17/12/2019	13:57:07	1.49	3	12	0.261	126.0

17/12/2019	13:58:07	1.49	3	13	0.305	123.8
17/12/2019	13:59:07	1.49	3	14	0.269	134.4
17/12/2019	14:00:07	1.5	3	15	0.306	141.5
17/12/2019	14:10:37	1.57	1	1	0.154	163.8
17/12/2019	14:11:37	1.57	1	2	0.074	166.6
17/12/2019	14:12:37	1.57	1	3	0.075	325.0
17/12/2019	14:13:37	1.57	1	4	0.060	0.9
17/12/2019	14:20:07	1.6	2	1	0.263	85.4
17/12/2019	14:21:07	1.6	2	2	0.290	72.6
17/12/2019	14:22:07	1.6	2	3	0.294	73.8
17/12/2019	14:23:07	1.6	2	4	0.313	70.1
17/12/2019	14:24:07	1.6	2	5	0.287	66.7
17/12/2019	14:25:07	1.63	2	6	0.291	64.3
17/12/2019	14:32:52	1.64	3	1	0.556	126.0
17/12/2019	14:33:52	1.64	3	2	0.519	138.0
17/12/2019	14:34:52	1.64	3	3	0.532	130.7
17/12/2019	14:35:52	1.67	3	4	0.557	130.6
17/12/2019	14:36:52	1.67	3	5	0.555	131.6
17/12/2019	14:37:52	1.67	3	6	0.539	133.4
17/12/2019	14:38:52	1.67	3	7	0.604	138.4
17/12/2019	14:39:52	1.67	3	8	0.481	128.6
17/12/2019	14:40:52	1.68	3	9	0.495	136.2
17/12/2019	14:41:52	1.68	3	10	0.511	127.3
17/12/2019	14:42:52	1.68	3	11	0.583	130.1
17/12/2019	14:43:52	1.68	3	12	0.607	131.4
17/12/2019	14:44:52	1.68	3	13	0.514	134.1
17/12/2019	14:45:52	1.69	3	14	0.510	138.2
17/12/2019	14:46:52	1.69	3	15	0.499	137.0
17/12/2019	14:57:52	1.69	1	1	0.092	138.7
17/12/2019	14:58:52	1.69	1	2	0.009	107.6
17/12/2019	14:59:52	1.69	1	3	0.000	330.4
17/12/2019	15:00:52	1.69	1	4	0.011	245.3
17/12/2019	15:11:37	1.71	2	1	0.300	82.5
17/12/2019	15:12:37	1.71	2	2	0.314	73.3
17/12/2019	15:13:37	1.71	2	3	0.317	71.3
17/12/2019	15:14:37	1.71	2	4	0.319	66.7
17/12/2019	15:15:37	1.7	2	5	0.348	61.6
17/12/2019	15:16:37	1.7	2	6	0.328	62.5
17/12/2019	15:26:52	1.69	3	1	0.653	123.4
17/12/2019	15:27:52	1.69	3	2	0.667	124.4
17/12/2019	15:28:52	1.69	3	3	0.684	134.3
17/12/2019	15:29:52	1.69	3	4	0.636	124.6
17/12/2019	15:30:52	1.69	3	5	0.650	133.0
17/12/2019	15:31:52	1.69	3	6	0.680	126.7
17/12/2019	15:32:52	1.69	3	7	0.703	132.9
17/12/2019	15:33:52	1.69	3	8	0.643	132.4
17/12/2019	15:34:52	1.69	3	9	0.651	122.7
17/12/2019	15:35:52	1.67	3	10	0.697	129.7
17/12/2019	15:36:52	1.67	3	11	0.681	125.5
17/12/2019	15:37:52	1.67	3	12	0.666	126.9
17/12/2019	15:38:52	1.67	3	13	0.643	125.7
17/12/2019	15:39:22	1.67	3	14	0.682	118.4
17/12/2019	15:40:52	1.65	3	15	0.594	125.8
17/12/2019	15:56:52	1.55	1	1	0.000	318.9
17/12/2019	15:57:52	1.55	1	2	0.000	310.0
17/12/2019	15:58:52	1.55	1	3	0.007	282.5
17/12/2019	15:59:52	1.55	1	4	0.058	235.4
17/12/2019	16:09:37	1.51	2	1	0.268	81.4
17/12/2019	16:10:37	1.49	2	2	0.266	70.9
17/12/2019	16:11:37	1.49	2	3	0.280	67.0
17/12/2019	16:12:37	1.49	2	4	0.301	62.3
17/12/2019	16:13:37	1.49	2	5	0.282	60.5
17/12/2019	16:14:37	1.49	2	6	0.263	62.6
17/12/2019	16:23:37	1.41	3	1	0.773	110.5
17/12/2019	16:24:37	1.41	3	2	0.698	116.3
17/12/2019	16:25:37	1.35	3	3	0.667	126.3
17/12/2019	16:26:37	1.35	3	4	0.745	126.4
17/12/2019	16:27:37	1.35	3	5	0.701	125.7
17/12/2019	16:28:37	1.35	3	6	0.763	127.4
17/12/2019	16:29:37	1.35	3	7	0.742	129.7

17/12/2019	16:30:37	1.32	3	8	0.680	130.1
17/12/2019	16:31:37	1.32	3	9	0.688	130.3
17/12/2019	16:32:37	1.32	3	10	0.640	128.6
17/12/2019	16:33:37	1.32	3	11	0.661	127.2
17/12/2019	16:34:37	1.32	3	12	0.680	134.5
17/12/2019	16:35:37	1.26	3	13	0.622	135.6
17/12/2019	16:36:37	1.26	3	14	0.605	133.1
17/12/2019	16:37:37	1.26	3	15	0.636	126.8
17/12/2019	16:48:37	1.15	1	1	0.032	156.7
17/12/2019	16:49:37	1.15	1	2	0.092	148.8
17/12/2019	16:50:37	1.11	1	3	0.040	150.5
17/12/2019	16:51:37	1.11	1	4	0.000	137.2
17/12/2019	16:57:52	1.02	2	1	0.202	62.4
17/12/2019	16:58:52	1.02	2	2	0.332	59.7
17/12/2019	16:59:52	1.02	2	3	0.206	100.0
17/12/2019	17:00:52	0.97	2	4	0.219	82.4
17/12/2019	17:01:52	0.97	2	5	0.212	76.5
17/12/2019	17:02:52	0.97	2	6	0.155	75.8
17/12/2019	17:13:07	0.84	3	1	0.613	109.6
17/12/2019	17:14:07	0.84	3	2	0.700	111.0
17/12/2019	17:15:07	0.77	3	3	0.749	112.6
17/12/2019	17:16:07	0.77	3	4	0.772	113.2
17/12/2019	17:17:07	0.77	3	5	0.776	111.6
17/12/2019	17:18:07	0.77	3	6	0.790	107.7
17/12/2019	17:19:07	0.77	3	7	0.706	107.4
17/12/2019	17:20:07	0.7	3	8	0.707	103.6
17/12/2019	17:21:07	0.7	3	9	0.618	101.2
17/12/2019	17:22:07	0.7	3	10	0.702	104.2
17/12/2019	17:23:07	0.7	3	11	0.601	102.5
17/12/2019	17:24:07	0.7	3	12	0.579	97.2
17/12/2019	17:25:07	0.63	3	13	0.657	108.0
17/12/2019	17:26:07	0.63	3	14	0.450	97.3
17/12/2019	17:27:07	0.63	3	15	0.481	98.9
17/12/2019	17:38:07	0.49	1	1	0.093	33.9
17/12/2019	17:39:07	0.49	1	2	0.000	36.2

17/12/2019	17:40:07	0.42	1	3	0.000	10.0
17/12/2019	17:41:07	0.42	1	4	0.000	67.8
17/12/2019	17:47:52	0.35	2	1	0.108	38.2
17/12/2019	17:48:52	0.35	2	2	0.274	17.5
17/12/2019	17:49:52	0.35	2	3	0.139	67.3
17/12/2019	17:50:52	0.26	2	4	0.133	74.1
17/12/2019	17:51:52	0.26	2	5	0.129	57.0
17/12/2019	18:02:52	0.12	3	1	0.600	108.9
17/12/2019	18:03:52	0.12	3	2	0.598	112.1
17/12/2019	18:04:52	0.12	3	3	0.628	110.4
17/12/2019	18:05:52	0.04	3	4	0.622	116.6
17/12/2019	18:06:52	0.04	3	5	0.596	115.7
17/12/2019	18:07:52	0.04	3	6	0.552	117.3
17/12/2019	18:08:52	0.04	3	7	0.617	119.1
17/12/2019	18:09:52	0.04	3	8	0.632	118.1
17/12/2019	18:10:52	-0.02	3	9	0.613	115.5
17/12/2019	18:11:52	-0.02	3	10	0.643	120.9
17/12/2019	18:12:52	-0.02	3	11	0.581	112.2
17/12/2019	18:13:52	-0.02	3	12	0.572	112.7
17/12/2019	18:14:52	-0.02	3	13	0.565	108.8
17/12/2019	18:15:52	-0.11	3	14	0.609	113.7
17/12/2019	18:16:52	-0.11	3	15	0.584	110.7
17/12/2019	18:27:37	-0.25	1	1	0.094	327.8
17/12/2019	18:28:37	-0.25	1	2	0.039	314.4
17/12/2019	18:29:37	-0.25	1	3	0.000	286.5
17/12/2019	18:42:52	-0.48	2	1	0.082	352.7
17/12/2019	18:43:52	-0.48	2	2	0.075	8.2
17/12/2019	18:44:52	-0.48	2	3	0.009	357.0
17/12/2019	18:45:52	-0.55	2	4	0.000	353.7
17/12/2019	18:58:22	-0.7	3	1	0.356	100.9
17/12/2019	18:59:22	-0.7	3	2	0.318	104.7
17/12/2019	19:00:22	-0.79	3	3	0.327	97.8
17/12/2019	19:01:22	-0.79	3	4	0.353	99.2
17/12/2019	19:02:22	-0.79	3	5	0.283	105.9
17/12/2019	19:03:22	-0.79	3	6	0.320	97.0
17/12/2019	19:04:22	-0.79	3	7	0.296	98.6
17/12/2019	19:05:22	-0.85	3	8	0.289	80.8
17/12/2019	19:06:22	-0.85	3	9	0.245	93.8
17/12/2019	19:07:07	-0.85	3	10	0.266	100.6
17/12/2019	19:08:22	-0.85	3	11	0.209	99.1
17/12/2019	19:09:22	-0.85	3	12	0.207	86.0
17/12/2019	19:10:22	-0.9	3	13	0.222	88.6
17/12/2019	19:11:22	-0.9	3	14	0.217	83.9
17/12/2019	19:21:52	-1.05	1	1	0.061	358.1
17/12/2019	19:22:52	-1.05	1	2	0.031	294.6
17/12/2019	19:30:52	-1.16	2	1	0.000	332.0
17/12/2019	19:31:52	-1.16	2	2	0.011	311.9
17/12/2019	19:32:52	-1.16	2	3	0.015	280.7
17/12/2019	19:33:52	-1.16	2	4	0.000	98.4
17/12/2019	19:48:52	-1.31	3	1	0.201	348.0
17/12/2019	19:49:52	-1.31	3	2	0.175	346.2
17/12/2019	19:50:52	-1.38	3	3	0.207	338.8
17/12/2019	19:51:52	-1.38	3	4	0.223	331.8
17/12/2019	19:52:52	-1.38	3	5	0.195	330.8
17/12/2019	19:53:52	-1.38	3	6	0.189	340.6
17/12/2019	19:54:52	-1.38	3	7	0.170	335.1
17/12/2019	19:55:52	-1.38	3	8	0.190	338.9
17/12/2019	19:56:52	-1.38	3	9	0.185	345.4
17/12/2019	19:57:52	-1.38	3	10	0.171	342.8
17/12/2019	19:58:52	-1.38	3	11	0.139	341.7
17/12/2019	19:59:52	-1.38	3	12	0.181	358.3
17/12/2019	20:00:52	-1.44	3	13	0.128	347.0
17/12/2019	20:15:52	-1.55	1	1	0.000	200.4
17/12/2019	20:16:52	-1.55	1	2	0.000	176.2
17/12/2019	20:23:52	-1.6	2	1	0.111	206.9
17/12/2019	20:24:52	-1.6	2	2	0.134	217.1
17/12/2019	20:25:52	-1.62	2	3	0.112	233.4

Wave Buoy Records						
Time Frame	Sig Wave height	Sig Wave Period	Mean wave height	Mean Wave Period	Max Wave Height	Max Wave Period
dd/mm/yy: hh:mm:ss-hh:mm:ss	m	s	m	s	m	s
18/11/19: 14:10:00 - 14:20:00	0.05		5.88	0.03	3.92	0.10
18/11/19: 14:20:00 - 14:30:00	0.06		6.72	0.03	4.28	0.12
18/11/19: 14:30:00 - 14:40:00	0.06		7.21	0.04	4.73	0.10
18/11/19: 14:40:00 - 14:50:00	0.06		7.62	0.03	4.49	0.09
18/11/19: 14:50:00 - 15:00:00	0.06		7.64	0.03	4.55	0.09
18/11/19: 15:00:00 - 15:10:00	0.06		7.43	0.03	4.80	0.08
18/11/19: 15:10:00 - 15:20:00	0.05		7.56	0.03	4.61	0.09
18/11/19: 15:20:00 - 15:30:00	0.05		6.58	0.03	4.56	0.09
18/11/19: 15:30:00 - 15:40:00	0.05		6.91	0.03	4.51	0.09
18/11/19: 15:40:00 - 15:50:00	0.05		6.52	0.03	4.63	0.08
18/11/19: 15:50:00 - 16:00:00	0.05		7.07	0.03	4.52	0.09
18/11/19: 16:00:00 - 16:10:00	0.05		6.09	0.03	4.06	0.08
18/11/19: 16:10:00 - 16:20:00	0.05		7.17	0.03	4.33	0.09
18/11/19: 16:20:00 - 16:30:00	0.05		7.00	0.03	4.57	0.09
18/11/19: 16:30:00 - 16:40:00	0.05		7.00	0.03	4.45	0.07
18/11/19: 16:40:00 - 16:50:00	0.05		8.31	0.03	4.68	0.09
18/11/19: 16:50:00 - 17:00:00	0.04		7.72	0.02	4.25	0.07
18/11/19: 17:00:00 - 17:10:00	0.04		7.03	0.02	3.94	0.09
18/11/19: 17:10:00 - 17:20:00	0.05		8.55	0.03	4.73	0.07
18/11/19: 17:20:00 - 17:30:00	0.05		7.76	0.03	4.62	0.10
18/11/19: 17:30:00 - 17:40:00	0.05		6.43	0.03	4.06	0.08
18/11/19: 17:40:00 - 17:50:00	0.04		6.05	0.03	3.80	0.09
18/11/19: 17:50:00 - 18:00:00	0.05		6.45	0.03	3.96	0.07
18/11/19: 18:00:00 - 18:10:00	0.06		7.17	0.03	4.60	0.09
18/11/19: 18:10:00 - 18:20:00	0.06		6.69	0.03	4.50	0.10
18/11/19: 18:20:00 - 18:30:00	0.06		7.91	0.03	4.43	0.13
18/11/19: 18:30:00 - 18:40:00	0.05		6.63	0.03	4.57	0.09
18/11/19: 18:40:00 - 18:50:00	0.05		8.10	0.03	4.79	0.11
18/11/19: 18:50:00 - 19:00:00	0.06		7.91	0.03	4.84	0.09
18/11/19: 19:00:00 - 19:10:00	0.06		6.47	0.03	4.52	0.08
18/11/19: 19:10:00 - 19:20:00	0.07		7.22	0.04	5.08	0.10
18/11/19: 19:20:00 - 19:30:00	0.06		6.12	0.03	4.37	0.11
18/11/19: 19:30:00 - 19:40:00	0.05		7.28	0.03	4.46	0.08
18/11/19: 19:40:00 - 19:50:00	0.05		5.90	0.03	4.13	0.09
18/11/19: 19:50:00 - 20:00:00	0.05		6.74	0.03	4.35	0.07
18/11/19: 20:00:00 - 20:10:00	0.04		6.57	0.03	4.17	0.07
18/11/19: 20:10:00 - 20:20:00	0.05		6.51	0.03	4.08	0.09
18/11/19: 20:20:00 - 20:30:00	0.04		6.60	0.02	3.97	0.08
18/11/19: 20:30:00 - 20:40:00	0.04		6.13	0.03	4.33	0.10
18/11/19: 20:40:00 - 20:50:00	0.05		6.56	0.03	4.16	0.10
18/11/19: 20:50:00 - 21:00:00	0.04		6.53	0.02	3.88	0.08
18/11/19: 21:00:00 - 21:10:00	0.05		6.64	0.03	3.86	0.08
18/11/19: 21:10:00 - 21:20:00	0.04		7.08	0.02	4.10	0.10
18/11/19: 21:20:00 - 21:30:00	0.04		7.20	0.02	4.21	0.06
18/11/19: 21:30:00 - 21:40:00	0.05		7.08	0.03	4.17	0.09
18/11/19: 21:40:00 - 21:50:00	0.04		6.47	0.02	3.83	0.08
18/11/19: 21:50:00 - 22:00:00	0.05		5.98	0.02	3.72	0.12
18/11/19: 22:00:00 - 22:10:00	0.04		5.92	0.02	4.03	0.06
18/11/19: 22:10:00 - 22:20:00	0.04		6.00	0.03	3.92	0.08
18/11/19: 22:20:00 - 22:30:00	0.04		6.03	0.03	3.82	0.08
18/11/19: 22:30:00 - 22:40:00	0.04		5.63	0.02	3.50	0.09
18/11/19: 22:40:00 - 22:50:00	0.05		8.23	0.03	4.81	0.10
18/11/19: 22:50:00 - 23:00:00	0.04		5.39	0.02	3.65	0.07
18/11/19: 23:00:00 - 23:10:00	0.08		5.91	0.06	5.28	0.12
18/11/19: 23:10:00 - 23:20:00	0.05		5.58	0.03	3.90	0.11
18/11/19: 23:20:00 - 23:30:00	0.06		5.78	0.03	3.89	0.09
18/11/19: 23:30:00 - 23:40:00	0.05		6.23	0.03	4.08	0.08
18/11/19: 23:40:00 - 23:50:00	0.05		6.01	0.03	4.20	0.08
18/11/19: 23:50:00 - 00:00:00	0.05		5.58	0.03	3.65	0.10
19/11/19: 00:00:00 - 00:10:00	0.04		5.70	0.03	3.81	0.08
19/11/19: 00:10:00 - 00:20:00	0.05		6.52	0.03	4.15	0.10
19/11/19: 00:20:00 - 00:30:00	0.04		5.90	0.03	3.89	0.07
19/11/19: 00:30:00 - 00:40:00	0.05		5.53	0.03	3.65	0.09
19/11/19: 00:40:00 - 00:50:00	0.05		6.82	0.03	4.21	0.10

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19/11/19: 00:50:00 - 01:00:00	0.05	5.17	0.03	3.57	0.09	10.5
19/11/19: 01:00:00 - 01:10:00	0.05	5.78	0.03	3.89	0.07	11
19/11/19: 01:10:00 - 01:20:00	0.05	5.42	0.03	3.79	0.09	13.5
19/11/19: 01:20:00 - 01:30:00	0.05	5.77	0.03	3.81	0.08	12
19/11/19: 01:30:00 - 01:40:00	0.05	6.05	0.03	4.03	0.07	14
19/11/19: 01:40:00 - 01:50:00	0.05	5.54	0.03	3.53	0.10	12.5
19/11/19: 01:50:00 - 02:00:00	0.05	4.69	0.03	3.96	0.08	13.5
19/11/19: 02:00:00 - 02:10:00	0.05	5.37	0.03	3.64	0.08	15
19/11/19: 02:10:00 - 02:20:00	0.06	6.26	0.03	4.17	0.10	14
19/11/19: 02:20:00 - 02:30:00	0.06	6.43	0.04	4.17	0.10	15.5
19/11/19: 02:30:00 - 02:40:00	0.05	5.66	0.03	4.12	0.09	12.5
19/11/19: 02:40:00 - 02:50:00	0.06	6.23	0.04	4.28	0.09	13
19/11/19: 02:50:00 - 03:00:00	0.06	5.44	0.03	4.24	0.11	17.5
19/11/19: 03:00:00 - 03:10:00	0.06	6.45	0.04	4.17	0.10	12.5
19/11/19: 03:10:00 - 03:20:00	0.06	5.67	0.04	4.21	0.08	14.5
19/11/19: 03:20:00 - 03:30:00	0.07	5.47	0.04	4.30	0.12	11.5
19/11/19: 03:30:00 - 03:40:00	0.06	4.63	0.04	3.98	0.11	11.5
19/11/19: 03:40:00 - 03:50:00	0.08	4.96	0.05	4.08	0.11	10.5
19/11/19: 03:50:00 - 04:00:00	0.08	5.02	0.05	4.44	0.13	9.5
19/11/19: 04:00:00 - 04:10:00	0.09	5.38	0.06	4.70	0.15	11
19/11/19: 04:10:00 - 04:20:00	0.10	4.98	0.06	4.24	0.16	8.5
19/11/19: 04:20:00 - 04:30:00	0.09	5.12	0.06	4.53	0.17	11.5
19/11/19: 04:30:00 - 04:40:00	0.10	5.12	0.07	4.79	0.16	11
19/11/19: 04:40:00 - 04:50:00	0.13	5.07	0.08	4.64	0.23	10.5
19/11/19: 04:50:00 - 05:00:00	0.15	5.56	0.09	4.98	0.29	9.5
19/11/19: 05:00:00 - 05:10:00	0.14	5.71	0.08	5.06	0.23	11.5
19/11/19: 05:10:00 - 05:20:00	0.13	5.65	0.08	5.07	0.22	11
19/11/19: 05:20:00 - 05:30:00	0.15	5.35	0.09	4.88	0.28	8.5
19/11/19: 05:30:00 - 05:40:00	0.19	5.82	0.12	5.43	0.31	9.5
19/11/19: 05:40:00 - 05:50:00	0.17	5.72	0.11	5.24	0.24	10.5
19/11/19: 05:50:00 - 06:00:00	0.19	5.86	0.12	5.35	0.31	9
19/11/19: 06:00:00 - 06:10:00	0.22	5.85	0.14	5.40	0.29	8.5
19/11/19: 06:10:00 - 06:20:00	0.20	5.54	0.12	5.00	0.29	9.5
19/11/19: 06:20:00 - 06:30:00	0.23	5.90	0.14	5.45	0.33	15
19/11/19: 06:30:00 - 06:40:00	0.25	5.87	0.14	5.23	0.37	8
19/11/19: 06:40:00 - 06:50:00	0.34	5.93	0.21	5.69	0.48	9
19/11/19: 06:50:00 - 07:00:00	0.33	5.99	0.22	5.81	0.47	10
19/11/19: 07:00:00 - 07:10:00	0.36	5.89	0.23	5.85	0.52	8.5
19/11/19: 07:10:00 - 07:20:00	0.33	6.01	0.21	5.77	0.54	8.5
19/11/19: 07:20:00 - 07:30:00	0.39	6.01	0.24	5.63	0.64	8
19/11/19: 07:30:00 - 07:40:00	0.39	6.03	0.24	5.83	0.69	9.5
19/11/19: 07:40:00 - 07:50:00	0.45	5.93	0.28	5.76	0.66	9.5
19/11/19: 07:50:00 - 08:00:00	0.36	6.11	0.22	5.50	0.53	8
19/11/19: 08:00:00 - 08:10:00	0.37	5.97	0.23	5.70	0.61	9.5
19/11/19: 08:10:00 - 08:20:00	0.45	6.18	0.29	6.03	0.86	8.5
19/11/19: 08:20:00 - 08:30:00	0.43	6.09	0.27	5.58	0.59	8.5
19/11/19: 08:30:00 - 08:40:00	0.53	6.17	0.34	5.99	0.78	8.5
19/11/19: 08:40:00 - 08:50:00	0.47	6.31	0.26	5.65	0.77	9
19/11/19: 08:50:00 - 09:00:00	0.53	6.17	0.35	6.16	0.90	9
19/11/19: 09:00:00 - 09:10:00	0.50	6.41	0.31	6.08	0.76	9
19/11/19: 09:10:00 - 09:20:00	0.36	6.22	0.24	5.80	0.55	8.5
19/11/19: 09:20:00 - 09:30:00	0.37	6.09	0.24	5.91	0.53	8.5
19/11/19: 09:30:00 - 09:40:00	0.36	6.17	0.23	5.91	0.58	9.5
19/11/19: 09:40:00 - 09:50:00	0.35	6.19	0.21	5.66	0.54	9.5
19/11/19: 09:50:00 - 10:00:00	0.37	5.94	0.24	5.93	0.56	10
19/11/19: 10:00:00 - 10:10:00	0.41	6.21	0.26	5.81	0.62	8.5
19/11/19: 10:10:00 - 10:20:00	0.40	6.18	0.27	5.94	0.63	8.5
19/11/19: 10:20:00 - 10:30:00	0.42	5.94	0.27	5.85	0.67	8
19/11/19: 10:30:00 - 10:40:00	0.43	6.02	0.29	5.92	0.63	8.5
19/11/19: 10:40:00 - 10:50:00	0.48	5.94	0.30	5.85	0.70	11
19/11/19: 10:50:00 - 11:00:00	0.50	6.29	0.31	5.89	0.72	8.5
19/11/19: 11:00:00 - 11:10:00	0.48	6.11	0.31	6.03	0.77	8.5
19/11/19: 11:10:00 - 11:20:00	0.38	6.23	0.24	5.97	0.61	11
19/11/19: 11:20:00 - 11:30:00	0.54	6.20	0.32	5.85	0.70	8
19/11/19: 11:30:00 - 11:40:00	0.49	6.17	0.31	5.96	0.73	8.5
19/11/19: 11:40:00 - 11:50:00	0.48	5.98	0.32	6.07	0.61	11
19/11/19: 11:50:00 - 12:00:00	0.42	6.28	0.27	6.17	0.71	9
19/11/19: 12:00:00 - 12:10:00	0.44	6.13	0.29	5.74	0.70	8.5
19/11/19: 12:10:00 - 12:20:00	0.40	6.03	0.26	5.85	0.59	11
19/11/19: 12:20:00 - 12:30:00	0.45	6.06	0.30	6.27	0.75	11

19/11/19: 12:30:00 - 12:40:00	0.48	6.25	0.29	6.06	0.80	9
19/11/19: 12:40:00 - 12:50:00	0.49	6.15	0.31	6.30	0.78	10
19/11/19: 12:50:00 - 13:00:00	0.41	6.20	0.26	5.96	0.61	9
19/11/19: 13:00:00 - 13:10:00	0.41	6.45	0.26	6.17	0.68	10
19/11/19: 13:10:00 - 13:20:00	0.50	6.44	0.31	6.07	0.85	11.5
19/11/19: 13:20:00 - 13:30:00	0.47	6.34	0.31	6.34	0.67	9.5
19/11/19: 13:30:00 - 13:40:00	0.43	6.68	0.27	6.23	0.59	10.5
19/11/19: 13:40:00 - 13:50:00	0.48	6.69	0.28	6.30	0.78	10
19/11/19: 13:50:00 - 14:00:00	0.48	7.15	0.30	6.47	0.76	10.5
19/11/19: 14:00:00 - 14:10:00	0.40	6.70	0.25	6.17	0.60	10
19/11/19: 14:10:00 - 14:20:00	0.50	7.03	0.33	6.82	0.78	10.5
19/11/19: 14:20:00 - 14:30:00	0.43	7.10	0.27	6.46	0.57	10.5
19/11/19: 14:30:00 - 14:40:00	0.46	7.00	0.27	6.36	0.66	11
19/11/19: 14:40:00 - 14:50:00	0.52	7.32	0.32	7.02	0.76	10
19/11/19: 14:50:00 - 15:00:00	0.55	7.03	0.33	6.42	0.85	10.5
19/11/19: 15:00:00 - 15:10:00	0.47	6.97	0.30	6.57	0.79	10.5
19/11/19: 15:10:00 - 15:20:00	0.56	7.25	0.35	7.05	0.79	11
19/11/19: 15:20:00 - 15:30:00	0.55	7.23	0.32	7.04	0.91	13
19/11/19: 15:30:00 - 15:40:00	0.50	7.31	0.32	7.18	0.71	12
19/11/19: 15:40:00 - 15:50:00	0.39	7.38	0.24	6.59	0.51	11.5
19/11/19: 15:50:00 - 16:00:00	0.51	7.40	0.33	6.87	0.74	10
19/11/19: 16:00:00 - 16:10:00	0.52	7.46	0.35	7.42	0.76	11
19/11/19: 16:10:00 - 16:20:00	0.48	7.75	0.27	6.87	0.83	11.5
19/11/19: 16:20:00 - 16:30:00	0.56	7.81	0.36	7.31	0.84	10.5
19/11/19: 16:30:00 - 16:40:00	0.50	7.83	0.31	7.27	0.85	11
19/11/19: 16:40:00 - 16:50:00	0.46	7.54	0.29	7.05	0.70	13.5
19/11/19: 16:50:00 - 17:00:00	0.44	7.41	0.26	6.83	0.59	12.5
19/11/19: 17:00:00 - 17:10:00	0.43	7.56	0.28	7.43	0.60	18
19/11/19: 17:10:00 - 17:20:00	0.39	7.98	0.25	6.94	0.65	11.5
19/11/19: 17:20:00 - 17:30:00	0.55	7.75	0.32	6.87	0.93	12
19/11/19: 17:30:00 - 17:40:00	0.43	7.96	0.29	7.32	0.71	12
19/11/19: 17:40:00 - 17:50:00	0.38	8.74	0.24	7.92	0.60	18
19/11/19: 17:50:00 - 18:00:00	0.40	7.87	0.26	7.50	0.74	15.5
19/11/19: 18:00:00 - 18:10:00	0.35	8.22	0.22	7.65	0.45	24
19/11/19: 18:10:00 - 18:20:00	0.37	7.73	0.22	6.56	0.58	13.5
19/11/19: 18:20:00 - 18:30:00	0.38	7.31	0.23	6.26	0.56	12.5
19/11/19: 18:30:00 - 18:40:00	0.38	8.00	0.24	7.15	0.53	13
19/11/19: 18:40:00 - 18:50:00	0.42	7.80	0.29	7.27	0.65	11
19/11/19: 18:50:00 - 19:00:00	0.38	7.79	0.25	7.07	0.55	12
19/11/19: 19:00:00 - 19:10:00	0.42	7.83	0.27	7.28	0.74	18
19/11/19: 19:10:00 - 19:20:00	0.39	8.85	0.26	7.67	0.56	20.5
19/11/19: 19:20:00 - 19:30:00	0.42	7.82	0.26	7.03	0.70	12.5
19/11/19: 19:30:00 - 19:40:00	0.40	7.76	0.26	7.25	0.59	15.5
19/11/19: 19:40:00 - 19:50:00	0.38	8.38	0.24	7.53	0.51	16.5
19/11/19: 19:50:00 - 20:00:00	0.35	8.43	0.22	7.18	0.55	17.5
19/11/19: 20:00:00 - 20:10:00	0.39	9.10	0.26	7.71	0.49	19
19/11/19: 20:10:00 - 20:20:00	0.37	7.87	0.25	7.16	0.54	18.5
19/11/19: 20:20:00 - 20:30:00	0.40	9.20	0.25	7.88	0.60	22.5
19/11/19: 20:30:00 - 20:40:00	0.39	8.02	0.24	7.13	0.55	16.5
19/11/19: 20:40:00 - 20:50:00	0.37	9.03	0.23	6.77	0.57	19.5
19/11/19: 20:50:00 - 21:00:00	0.38	9.56	0.25	7.57	0.59	17.5
19/11/19: 21:00:00 - 21:10:00	0.40	7.55	0.26	7.03	0.62	13
19/11/19: 21:10:00 - 21:20:00	0.42	8.63	0.27	7.33	0.55	15.5
19/11/19: 21:20:00 - 21:30:00	0.44	7.95	0.29	7.01	0.61	14
19/11/19: 21:30:00 - 21:40:00	0.46	8.06	0.30	7.22	0.62	22.5
19/11/19: 21:40:00 - 21:50:00	0.42	8.13	0.27	7.38	0.63	16.5
19/11/19: 21:50:00 - 22:00:00	0.45	8.30	0.27	6.95	0.69	18.5
19/11/19: 22:00:00 - 22:10:00	0.45	8.65	0.30	7.55	0.67	17.5
19/11/19: 22:10:00 - 22:20:00	0.39	8.46	0.26	6.93	0.57	16.5
19/11/19: 22:20:00 - 22:30:00	0.44	7.88	0.30	7.50	0.69	17
19/11/19: 22:30:00 - 22:40:00	0.50	7.66	0.33	6.95	0.77	14.5
19/11/19: 22:40:00 - 22:50:00	0.48	9.02	0.30	7.23	0.76	18.5
19/11/19: 22:50:00 - 23:00:00	0.48	7.55	0.32	7.04	0.72	19
19/11/19: 23:00:00 - 23:10:00	0.53	8.37	0.37	7.58	0.67	15.5
19/11/19: 23:10:00 - 23:20:00	0.62	7.58	0.40	7.63	1.02	23
19/11/19: 23:20:00 - 23:30:00	0.67	7.19	0.41	6.73	0.98	17.5
19/11/19: 23:30:00 - 23:40:00	0.61	8.35	0.41	7.37	0.86	20.5
19/11/19: 23:40:00 - 23:50:00	0.53	6.98	0.35	7.08	0.75	16.5
19/11/19: 23:50:00 - 00:00:00	0.51	7.07	0.32	6.62	0.90	17
20/11/19: 00:00:00 - 00:10:00	0.58	7.46	0.37	7.39	0.91	17.5

20/11/19: 00:10:00 - 00:20:00	0.60	7.41	0.38	6.69	0.87	11
20/11/19: 00:20:00 - 00:30:00	0.59	7.21	0.38	7.00	0.95	13
20/11/19: 00:30:00 - 00:40:00	0.58	7.20	0.39	7.02	0.76	18
20/11/19: 00:40:00 - 00:50:00	0.68	6.94	0.44	7.35	1.03	18.5
20/11/19: 00:50:00 - 01:00:00	0.58	7.26	0.38	6.82	0.83	15.5
20/11/19: 01:00:00 - 01:10:00	0.58	7.56	0.37	7.40	0.78	17.5
20/11/19: 01:10:00 - 01:20:00	0.65	7.19	0.41	7.37	0.95	18.5
20/11/19: 01:20:00 - 01:30:00	0.64	7.52	0.42	7.04	0.88	20
20/11/19: 01:30:00 - 01:40:00	0.61	7.69	0.40	7.24	0.82	17.5
20/11/19: 01:40:00 - 01:50:00	0.69	7.18	0.39	6.54	1.01	15.5
20/11/19: 01:50:00 - 02:00:00	0.62	7.28	0.41	6.74	0.98	16
20/11/19: 02:00:00 - 02:10:00	0.55	6.98	0.35	6.78	0.81	12.5
20/11/19: 02:10:00 - 02:20:00	0.71	7.33	0.47	7.19	1.15	13
20/11/19: 02:20:00 - 02:30:00	0.63	7.20	0.41	6.98	0.88	17
20/11/19: 02:30:00 - 02:40:00	0.73	7.59	0.48	7.04	1.07	17
20/11/19: 02:40:00 - 02:50:00	0.71	7.20	0.46	6.90	0.95	17
20/11/19: 02:50:00 - 03:00:00	0.76	7.23	0.53	6.94	1.13	10
20/11/19: 03:00:00 - 03:10:00	0.71	7.35	0.47	7.27	1.10	15.5
20/11/19: 03:10:00 - 03:20:00	0.72	7.21	0.47	6.87	1.16	11.5
20/11/19: 03:20:00 - 03:30:00	0.76	7.46	0.50	7.13	1.08	12
20/11/19: 03:30:00 - 03:40:00	0.76	6.95	0.50	6.78	1.21	11
20/11/19: 03:40:00 - 03:50:00	0.81	7.15	0.51	6.56	1.16	11.5
20/11/19: 03:50:00 - 04:00:00	0.94	7.12	0.60	6.73	1.54	11.5
20/11/19: 04:00:00 - 04:10:00	0.90	7.21	0.58	6.88	1.48	10.5
20/11/19: 04:10:00 - 04:20:00	0.98	7.72	0.62	7.21	1.53	17.5
20/11/19: 04:20:00 - 04:30:00	1.02	7.29	0.63	6.80	1.59	13
20/11/19: 04:30:00 - 04:40:00	0.94	7.50	0.61	7.58	1.31	13
20/11/19: 04:40:00 - 04:50:00	0.94	7.46	0.57	7.09	1.48	12.5
20/11/19: 04:50:00 - 05:00:00	1.12	7.46	0.69	7.58	1.55	12.5
20/11/19: 05:00:00 - 05:10:00	0.90	7.64	0.57	6.97	1.28	11.5
20/11/19: 05:10:00 - 05:20:00	0.98	7.60	0.63	7.43	1.31	18
20/11/19: 05:20:00 - 05:30:00	0.93	7.22	0.58	7.37	1.51	14
20/11/19: 05:30:00 - 05:40:00	1.00	7.92	0.66	7.51	1.65	11
20/11/19: 05:40:00 - 05:50:00	1.07	7.82	0.72	7.73	1.58	11.5
20/11/19: 05:50:00 - 06:00:00	1.02	7.52	0.67	7.52	1.52	11.5
20/11/19: 06:00:00 - 06:10:00	0.88	8.04	0.56	7.51	1.49	13
20/11/19: 06:10:00 - 06:20:00	0.90	7.57	0.61	7.16	1.21	11.5
20/11/19: 06:20:00 - 06:30:00	0.99	8.35	0.64	7.56	1.32	16.5
20/11/19: 06:30:00 - 06:40:00	1.02	7.46	0.64	7.13	1.52	10.5
20/11/19: 06:40:00 - 06:50:00	0.97	7.57	0.63	7.34	1.39	11
20/11/19: 06:50:00 - 07:00:00	0.79	7.91	0.50	7.15	1.11	12
20/11/19: 07:00:00 - 07:10:00	1.00	7.48	0.66	7.41	1.51	12
20/11/19: 07:10:00 - 07:20:00	1.29	7.74	0.82	7.64	1.91	11
20/11/19: 07:20:00 - 07:30:00	1.16	7.62	0.74	7.46	1.51	13.5
20/11/19: 07:30:00 - 07:40:00	1.09	7.37	0.69	7.20	1.51	10.5
20/11/19: 07:40:00 - 07:50:00	1.11	7.26	0.72	7.30	1.78	12.5
20/11/19: 07:50:00 - 08:00:00	1.10	7.35	0.72	7.19	1.74	12
20/11/19: 08:00:00 - 08:10:00	1.29	7.56	0.87	7.84	1.68	13
20/11/19: 08:10:00 - 08:20:00	0.92	7.57	0.62	7.22	1.24	11
20/11/19: 08:20:00 - 08:30:00	0.99	7.67	0.62	7.20	1.51	14
20/11/19: 08:30:00 - 08:40:00	1.06	7.48	0.67	7.38	1.74	12.5
20/11/19: 08:40:00 - 08:50:00	1.01	7.44	0.66	7.52	1.35	15.5
20/11/19: 08:50:00 - 09:00:00	0.97	7.31	0.65	7.38	1.31	16.5
20/11/19: 09:00:00 - 09:10:00	0.98	7.61	0.64	7.19	1.24	11.5
20/11/19: 09:10:00 - 09:20:00	1.03	7.63	0.67	7.40	1.39	17
20/11/19: 09:20:00 - 09:30:00	0.99	7.74	0.66	7.71	1.68	11.5
20/11/19: 09:30:00 - 09:40:00	1.20	7.66	0.83	7.76	1.54	10.5
20/11/19: 09:40:00 - 09:50:00	1.08	7.28	0.67	7.37	1.49	14
20/11/19: 09:50:00 - 10:00:00	0.94	7.63	0.62	7.05	1.18	12.5
20/11/19: 10:00:00 - 10:10:00	1.04	7.70	0.63	7.13	1.63	15
20/11/19: 10:10:00 - 10:20:00	0.85	7.87	0.58	7.58	1.23	16
20/11/19: 10:20:00 - 10:30:00	0.95	7.59	0.60	7.16	1.50	14
20/11/19: 10:30:00 - 10:40:00	0.88	7.61	0.59	7.17	1.47	12
20/11/19: 10:40:00 - 10:50:00	1.03	7.63	0.64	7.44	1.78	12.5
20/11/19: 10:50:00 - 11:00:00	0.87	7.37	0.59	7.31	1.30	11
20/11/19: 11:00:00 - 11:10:00	0.83	7.33	0.53	7.13	1.13	17
20/11/19: 11:10:00 - 11:20:00	0.82	7.27	0.54	7.05	1.48	12
20/11/19: 11:20:00 - 11:30:00	0.90	7.26	0.59	6.79	1.39	11.5
20/11/19: 11:30:00 - 11:40:00	1.10	7.59	0.72	7.27	1.54	14.5
20/11/19: 11:40:00 - 11:50:00	0.99	7.36	0.61	7.01	1.44	11

20/11/19: 11:50:00 - 12:00:00	1.08	7.56	0.70	7.13	1.76	10
20/11/19: 12:00:00 - 12:10:00	0.88	7.48	0.55	7.03	1.21	11.5
20/11/19: 12:10:00 - 12:20:00	0.90	7.44	0.61	7.24	1.19	11
20/11/19: 12:20:00 - 12:30:00	0.93	7.19	0.60	6.86	1.41	12
20/11/19: 12:30:00 - 12:40:00	0.87	7.66	0.58	7.78	1.12	14.5
20/11/19: 12:40:00 - 12:50:00	0.88	7.57	0.57	6.80	1.20	10.5
20/11/19: 12:50:00 - 13:00:00	1.11	7.90	0.74	7.69	1.48	11.5
20/11/19: 13:00:00 - 13:10:00	0.91	7.35	0.61	7.11	1.24	13
20/11/19: 13:10:00 - 13:20:00	0.89	7.50	0.58	7.32	1.27	10
20/11/19: 13:20:00 - 13:30:00	1.01	7.59	0.64	7.05	1.53	10
20/11/19: 13:30:00 - 13:40:00	1.02	8.06	0.62	7.56	1.88	13
20/11/19: 13:40:00 - 13:50:00	1.00	7.46	0.66	7.31	1.55	10
20/11/19: 13:50:00 - 14:00:00	0.96	7.38	0.59	6.81	1.21	11
20/11/19: 14:00:00 - 14:10:00	0.93	7.63	0.63	7.38	1.17	11
20/11/19: 14:10:00 - 14:20:00	0.83	7.66	0.50	6.87	1.62	10.5
20/11/19: 14:20:00 - 14:30:00	0.95	7.79	0.64	7.44	1.33	10.5
20/11/19: 14:30:00 - 14:40:00	0.95	7.63	0.65	7.56	1.32	11
20/11/19: 14:40:00 - 14:50:00	0.92	7.20	0.61	7.27	1.38	13.5
20/11/19: 14:50:00 - 15:00:00	0.93	7.42	0.61	7.58	1.34	12
20/11/19: 15:00:00 - 15:10:00	0.93	7.69	0.59	7.29	1.28	10
20/11/19: 15:10:00 - 15:20:00	0.94	7.39	0.58	7.29	1.29	11
20/11/19: 15:20:00 - 15:30:00	0.87	7.36	0.55	6.79	1.29	11.5
20/11/19: 15:30:00 - 15:40:00	0.80	7.09	0.52	7.03	1.24	10.5
20/11/19: 15:40:00 - 15:50:00	0.85	7.50	0.54	7.19	1.33	11
20/11/19: 15:50:00 - 16:00:00	0.71	7.83	0.50	7.60	0.97	11
20/11/19: 16:00:00 - 16:10:00	0.91	7.40	0.57	6.80	1.42	11
20/11/19: 16:10:00 - 16:20:00	0.94	7.59	0.58	7.25	1.36	11
20/11/19: 16:20:00 - 16:30:00	0.79	7.42	0.52	7.43	1.17	12
20/11/19: 16:30:00 - 16:40:00	0.83	7.20	0.56	7.39	1.11	11.5
20/11/19: 16:40:00 - 16:50:00	0.81	7.46	0.54	7.18	1.33	10.5
20/11/19: 16:50:00 - 17:00:00	0.91	7.43	0.60	7.35	1.57	12
20/11/19: 17:00:00 - 17:10:00	0.91	7.71	0.57	7.48	1.19	11.5
20/11/19: 17:10:00 - 17:20:00	0.91	7.85	0.61	7.59	1.17	12.5
20/11/19: 17:20:00 - 17:30:00	0.88	7.35	0.56	7.19	1.26	12
20/11/19: 17:30:00 - 17:40:00	0.81	7.69	0.53	7.47	1.19	11.5
20/11/19: 17:40:00 - 17:50:00	0.84	7.40	0.56	7.37	1.19	12
20/11/19: 17:50:00 - 18:00:00	0.99	7.39	0.69	7.28	1.32	10
20/11/19: 18:00:00 - 18:10:00	0.89	7.44	0.55	7.49	1.32	13
20/11/19: 18:10:00 - 18:20:00	1.01	7.46	0.62	7.14	1.52	11.5
20/11/19: 18:20:00 - 18:30:00	0.89	7.46	0.58	7.11	1.56	12.5
20/11/19: 18:30:00 - 18:40:00	0.83	7.56	0.59	7.22	1.37	11
20/11/19: 18:40:00 - 18:50:00	0.82	7.18	0.55	7.08	1.18	11.5
20/11/19: 18:50:00 - 19:00:00	0.94	6.98	0.62	6.96	1.42	11
20/11/19: 19:00:00 - 19:10:00	0.93	7.68	0.59	7.12	1.31	13
20/11/19: 19:10:00 - 19:20:00	0.95	7.41	0.61	7.07	1.38	11
20/11/19: 19:20:00 - 19:30:00	0.92	7.38	0.59	7.02	1.26	17
20/11/19: 19:30:00 - 19:40:00	0.96	7.07	0.61	6.82	1.37	13.5
20/11/19: 19:40:00 - 19:50:00	0.82	7.34	0.55	6.98	1.25	11
20/11/19: 19:50:00 - 20:00:00	1.08	7.41	0.67	7.08	1.48	10.5
20/11/19: 20:00:00 - 20:10:00	0.95	7.14	0.63	6.88	1.29	10
20/11/19: 20:10:00 - 20:20:00	0.84	7.44	0.58	7.24	1.37	11.5
20/11/19: 20:20:00 - 20:30:00	1.07	7.54	0.67	7.27	1.44	11
20/11/19: 20:30:00 - 20:40:00	1.08	7.00	0.72	7.00	1.57	14
20/11/19: 20:40:00 - 20:50:00	1.09	7.54	0.65	7.05	1.66	11
20/11/19: 20:50:00 - 21:00:00	1.12	7.39	0.70	7.00	1.41	10.5
20/11/19: 21:00:00 - 21:10:00	1.12	7.77	0.77	6.98	1.62	11.5
20/11/19: 21:10:00 - 21:20:00	1.09	7.25	0.73	6.99	1.43	10.5
20/11/19: 21:20:00 - 21:30:00	1.10	7.21	0.77	6.91	1.40	10.5
20/11/19: 21:30:00 - 21:40:00	1.18	7.38	0.77	7.09	1.87	10.5
20/11/19: 21:40:00 - 21:50:00	1.17	7.29	0.72	6.94	1.94	12.5
20/11/19: 21:50:00 - 22:00:00	1.11	7.72	0.75	7.10	1.60	12
20/11/19: 22:00:00 - 22:10:00	1.19	7.19	0.75	6.81	1.63	10
20/11/19: 22:10:00 - 22:20:00	1.18	7.19	0.76	6.79	1.67	9.5
20/11/19: 22:20:00 - 22:30:00	1.17	7.16	0.75	6.92	1.98	11.5
20/11/19: 22:30:00 - 22:40:00	1.27	7.05	0.86	6.97	1.86	10
20/11/19: 22:40:00 - 22:50:00	1.05	7.59	0.71	7.02	1.38	11
20/11/19: 22:50:00 - 23:00:00	1.02	6.91	0.69	6.76	1.75	10.5
20/11/19: 23:00:00 - 23:10:00	0.94	7.05	0.66	6.67	1.16	11
20/11/19: 23:10:00 - 23:20:00	1.10	7.21	0.71	6.99	1.36	10
20/11/19: 23:20:00 - 23:30:00	1.04	7.31	0.63	6.66	1.47	11

20/11/19: 23:30:00 - 23:40:00	1.06	7.10	0.67	6.53	1.45	12.5
20/11/19: 23:40:00 - 23:50:00	1.08	7.27	0.71	7.04	1.47	9.5
20/11/19: 23:50:00 - 00:00:00	0.91	6.88	0.60	6.76	1.32	12
21/11/19: 00:00:00 - 00:10:00	0.863	7.071	0.602	7.023	1.164	11
21/11/19: 00:10:00 - 00:20:00	1.044	6.817	0.686	6.599	1.421	9.5
21/11/19: 00:20:00 - 00:30:00	0.871	6.817	0.539	6.588	1.532	11.5
21/11/19: 00:30:00 - 00:40:00	0.777	6.800	0.513	6.582	1.222	10
21/11/19: 00:40:00 - 00:50:00	0.925	7.276	0.588	6.818	1.410	11
21/11/19: 00:50:00 - 01:00:00	0.891	6.900	0.564	6.604	1.342	11
21/11/19: 01:00:00 - 01:10:00	0.904	6.833	0.600	6.511	1.251	10.5
21/11/19: 01:10:00 - 01:20:00	0.707	7.067	0.444	6.505	1.101	11.5
21/11/19: 01:20:00 - 01:30:00	0.798	6.855	0.499	6.362	1.306	11.5
21/11/19: 01:30:00 - 01:40:00	0.932	6.776	0.611	6.781	1.454	10
21/11/19: 01:40:00 - 01:50:00	0.829	6.950	0.532	6.577	1.110	11
21/11/19: 01:50:00 - 02:00:00	0.830	6.532	0.548	6.394	1.104	11
21/11/19: 02:00:00 - 02:10:00	0.934	6.650	0.599	6.582	1.260	9.5
21/11/19: 02:10:00 - 02:20:00	0.768	6.950	0.487	6.571	1.347	10
21/11/19: 02:20:00 - 02:30:00	0.699	6.500	0.460	6.399	0.969	10.5
21/11/19: 02:30:00 - 02:40:00	0.902	6.717	0.555	6.554	1.491	11.5
21/11/19: 02:40:00 - 02:50:00	0.784	6.967	0.524	6.511	1.376	10.5
21/11/19: 02:50:00 - 03:00:00	0.752	6.650	0.505	6.577	1.356	10.5
21/11/19: 03:00:00 - 03:10:00	0.858	7.052	0.522	6.750	1.633	10.5
21/11/19: 03:10:00 - 03:20:00	0.716	6.677	0.467	6.400	1.222	10.5
21/11/19: 03:20:00 - 03:30:00	0.682	6.656	0.422	6.175	1.005	10.5
21/11/19: 03:30:00 - 03:40:00	0.801	6.914	0.517	6.702	1.200	9.5
21/11/19: 03:40:00 - 03:50:00	0.680	6.933	0.440	6.533	1.103	11
21/11/19: 03:50:00 - 04:00:00	0.754	6.793	0.518	6.747	1.034	10
21/11/19: 04:00:00 - 04:10:00	0.787	6.741	0.481	6.700	1.179	13
21/11/19: 04:10:00 - 04:20:00	0.781	6.964	0.499	7.035	1.340	14.5
21/11/19: 04:20:00 - 04:30:00	0.678	6.750	0.447	6.604	0.918	9.5
21/11/19: 04:30:00 - 04:40:00	0.679	7.214	0.433	6.874	1.050	12
21/11/19: 04:40:00 - 04:50:00	0.757	6.914	0.511	6.847	1.056	10
21/11/19: 04:50:00 - 05:00:00	0.749	7.018	0.496	6.942	1.120	10
21/11/19: 05:00:00 - 05:10:00	0.723	6.931	0.471	6.742	1.058	12.5
21/11/19: 05:10:00 - 05:20:00	0.721	6.983	0.440	6.678	1.064	10
21/11/19: 05:20:00 - 05:30:00	0.727	6.804	0.469	6.874	1.110	12.5
21/11/19: 05:30:00 - 05:40:00	0.671	7.017	0.433	6.576	1.050	13.5
21/11/19: 05:40:00 - 05:50:00	0.674	6.948	0.449	6.633	0.919	10
21/11/19: 05:50:00 - 06:00:00	0.769	6.817	0.481	6.533	1.533	10
21/11/19: 06:00:00 - 06:10:00	0.768	6.776	0.508	6.770	1.204	12
21/11/19: 06:10:00 - 06:20:00	0.742	6.914	0.475	6.818	1.552	12.5
21/11/19: 06:20:00 - 06:30:00	0.850	7.000	0.545	7.071	1.381	11
21/11/19: 06:30:00 - 06:40:00	0.859	7.148	0.558	7.390	1.258	11
21/11/19: 06:40:00 - 06:50:00	0.780	7.054	0.498	6.874	1.153	11
21/11/19: 06:50:00 - 07:00:00	0.782	7.155	0.492	6.790	1.234	14
21/11/19: 07:00:00 - 07:10:00	0.761	7.018	0.512	7.047	1.183	11
21/11/19: 07:10:00 - 07:20:00	0.764	7.017	0.510	6.792	1.318	10
21/11/19: 07:20:00 - 07:30:00	0.884	7.204	0.574	7.089	1.181	12.5
21/11/19: 07:30:00 - 07:40:00	0.710	7.017	0.427	6.462	1.066	13
21/11/19: 07:40:00 - 07:50:00	0.709	7.069	0.457	6.758	1.110	11
21/11/19: 07:50:00 - 08:00:00	0.936	7.155	0.576	6.847	1.224	11.5
21/11/19: 08:00:00 - 08:10:00	0.954	7.093	0.630	7.095	1.529	13.5
21/11/19: 08:10:00 - 08:20:00	0.875	7.000	0.557	6.621	1.193	10
21/11/19: 08:20:00 - 08:30:00	0.896	6.833	0.545	6.441	1.266	12.5
21/11/19: 08:30:00 - 08:40:00	0.871	7.161	0.549	7.082	1.317	12
21/11/19: 08:40:00 - 08:50:00	0.988	6.897	0.590	6.708	1.861	11
21/11/19: 08:50:00 - 09:00:00	0.961	6.897	0.592	6.639	1.474	11
21/11/19: 09:00:00 - 09:10:00	0.785	7.071	0.496	6.988	1.120	11.5
21/11/19: 09:10:00 - 09:20:00	0.893	6.759	0.571	6.644	1.337	10
21/11/19: 09:20:00 - 09:30:00	0.940	6.759	0.628	6.881	1.636	11
21/11/19: 09:30:00 - 09:40:00	0.878	6.667	0.553	6.588	1.258	11
21/11/19: 09:40:00 - 09:50:00	0.910	6.586	0.578	6.689	1.530	10.5
21/11/19: 09:50:00 - 10:00:00	0.816	6.732	0.544	6.845	1.115	11.5
21/11/19: 10:00:00 - 10:10:00	0.892	6.867	0.506	6.516	1.369	11.5
21/11/19: 10:10:00 - 10:20:00	0.819	6.793	0.525	6.758	1.305	11
21/11/19: 10:20:00 - 10:30:00	0.847	6.719	0.538	6.227	1.187	8.5
21/11/19: 10:30:00 - 10:40:00	0.903	6.586	0.577	6.628	1.395	11.5
21/11/19: 10:40:00 - 10:50:00	1.042	7.071	0.688	6.885	1.393	12.5
21/11/19: 10:50:00 - 11:00:00	0.832	7.089	0.515	6.965	1.429	13.5
21/11/19: 11:00:00 - 11:10:00	1.012	7.000	0.638	6.648	1.714	10.5

21/11/19: 11:10:00 - 11:20:00	1.073	6.733	0.661	6.484	1.541	10
21/11/19: 11:20:00 - 11:30:00	0.980	7.050	0.629	6.554	1.642	10
21/11/19: 11:30:00 - 11:40:00	0.967	6.617	0.607	6.409	1.332	10.5
21/11/19: 11:40:00 - 11:50:00	1.000	7.017	0.618	6.700	1.473	10
21/11/19: 11:50:00 - 12:00:00	1.022	6.879	0.642	6.736	1.709	11
21/11/19: 12:00:00 - 12:10:00	1.17	7.48	0.68	6.93	1.74	17
21/11/19: 12:10:00 - 12:20:00	0.89	6.78	0.55	6.68	1.68	11
21/11/19: 12:20:00 - 12:30:00	1.11	6.96	0.69	6.89	1.51	9.5
21/11/19: 12:30:00 - 12:40:00	0.87	7.02	0.54	6.63	1.35	10.5
21/11/19: 12:40:00 - 12:50:00	1.07	7.05	0.64	6.73	1.85	10.5
21/11/19: 12:50:00 - 13:00:00	0.89	7.09	0.58	6.90	1.37	10.5
21/11/19: 13:00:00 - 13:10:00	0.85	6.95	0.54	6.58	1.22	10
21/11/19: 13:10:00 - 13:20:00	0.88	6.98	0.56	6.43	1.54	9.5
21/11/19: 13:20:00 - 13:30:00	0.91	6.86	0.57	6.73	1.36	11
21/11/19: 13:30:00 - 13:40:00	0.86	6.81	0.56	6.67	1.19	10
21/11/19: 13:40:00 - 13:50:00	0.92	6.68	0.58	6.56	1.22	10
21/11/19: 13:50:00 - 14:00:00	0.78	7.10	0.52	6.81	1.18	13
21/11/19: 14:00:00 - 14:10:00	0.71	7.12	0.47	6.80	1.06	11
21/11/19: 14:10:00 - 14:20:00	0.72	6.85	0.44	6.37	1.06	10.5
21/11/19: 14:20:00 - 14:30:00	0.69	7.17	0.44	6.78	1.10	10
21/11/19: 14:30:00 - 14:40:00	0.68	6.79	0.43	6.31	1.06	11
21/11/19: 14:40:00 - 14:50:00	0.78	6.84	0.50	6.67	1.15	10.5
21/11/19: 14:50:00 - 15:00:00	0.80	6.95	0.54	6.58	1.21	11
21/11/19: 15:00:00 - 15:10:00	0.68	6.98	0.43	6.50	1.01	12.5
21/11/19: 15:10:00 - 15:20:00	0.75	6.79	0.46	6.35	1.21	9
21/11/19: 15:20:00 - 15:30:00	0.80	6.86	0.49	6.86	1.09	10.5
21/11/19: 15:30:00 - 15:40:00	0.76	7.20	0.50	6.67	0.99	11
21/11/19: 15:40:00 - 15:50:00	0.76	7.02	0.47	6.73	1.05	14
21/11/19: 15:50:00 - 16:00:00	0.64	6.81	0.42	6.71	0.87	11.5
21/11/19: 16:00:00 - 16:10:00	0.72	6.93	0.48	6.75	0.96	10
21/11/19: 16:10:00 - 16:20:00	0.69	7.02	0.46	6.68	1.15	10
21/11/19: 16:20:00 - 16:30:00	0.74	7.47	0.46	6.84	1.20	10
21/11/19: 16:30:00 - 16:40:00	0.73	6.88	0.44	6.80	1.03	10
21/11/19: 16:40:00 - 16:50:00	0.65	6.93	0.42	6.76	1.01	10
21/11/19: 16:50:00 - 17:00:00	0.65	6.95	0.41	6.85	0.96	10
21/11/19: 17:00:00 - 17:10:00	0.60	6.85	0.38	6.52	0.93	9
21/11/19: 17:10:00 - 17:20:00	0.67	6.84	0.42	6.80	0.96	10.5
21/11/19: 17:20:00 - 17:30:00	0.63	7.00	0.39	6.71	0.83	10.5
21/11/19: 17:30:00 - 17:40:00	0.60	7.10	0.38	6.44	1.03	9.5
21/11/19: 17:40:00 - 17:50:00	0.69	7.21	0.42	6.67	0.93	11.5
21/11/19: 17:50:00 - 18:00:00	0.68	7.02	0.46	6.93	0.91	12
21/11/19: 18:00:00 - 18:10:00	0.61	7.21	0.39	6.71	1.02	10.5
21/11/19: 18:10:00 - 18:20:00	0.65	6.69	0.42	6.76	0.96	11
21/11/19: 18:20:00 - 18:30:00	0.71	7.29	0.44	6.64	1.14	10.5
21/11/19: 18:30:00 - 18:40:00	0.69	7.04	0.44	6.92	1.17	10.5
21/11/19: 18:40:00 - 18:50:00	0.61	7.12	0.40	6.67	0.87	10.5
21/11/19: 18:50:00 - 19:00:00	0.52	7.10	0.33	6.64	0.79	12.5
21/11/19: 19:00:00 - 19:10:00	0.60	7.02	0.41	6.85	0.95	10.5
21/11/19: 19:10:00 - 19:20:00	0.62	6.86	0.41	6.71	0.81	10.5
21/11/19: 19:20:00 - 19:30:00	0.68	6.98	0.42	6.43	1.11	10
21/11/19: 19:30:00 - 19:40:00	0.71	6.78	0.44	6.53	1.09	10
21/11/19: 19:40:00 - 19:50:00	0.66	7.12	0.41	6.72	1.06	9.5
21/11/19: 19:50:00 - 20:00:00	0.61	7.05	0.37	6.59	1.10	10.5
21/11/19: 20:00:00 - 20:10:00	0.51	6.75	0.33	6.44	0.76	10
21/11/19: 20:10:00 - 20:20:00	0.58	6.87	0.35	6.45	0.90	11
21/11/19: 20:20:00 - 20:30:00	0.58	6.93	0.34	6.64	0.90	14.5
21/11/19: 20:30:00 - 20:40:00	0.49	6.77	0.31	6.37	0.72	11
21/11/19: 20:40:00 - 20:50:00	0.54	6.71	0.35	6.37	0.83	10.5
21/11/19: 20:50:00 - 21:00:00	0.54	6.93	0.35	6.70	0.83	11.5
21/11/19: 21:00:00 - 21:10:00	0.61	6.98	0.39	6.77	0.93	10.5
21/11/19: 21:10:00 - 21:20:00	0.62	6.97	0.38	6.28	0.94	9
21/11/19: 21:20:00 - 21:30:00	0.64	6.98	0.41	6.62	0.79	10
21/11/19: 21:30:00 - 21:40:00	0.63	7.05	0.40	6.97	0.87	11.5
21/11/19: 21:40:00 - 21:50:00	0.66	6.84	0.41	6.80	1.15	11
21/11/19: 21:50:00 - 22:00:00	0.74	7.02	0.49	6.83	1.08	10.5
21/11/19: 22:00:00 - 22:10:00	0.88	6.85	0.55	6.48	1.33	10
21/11/19: 22:10:00 - 22:20:00	0.72	6.70	0.48	6.51	1.13	11
21/11/19: 22:20:00 - 22:30:00	0.84	7.05	0.53	6.53	1.39	10.5
21/11/19: 22:30:00 - 22:40:00	0.86	6.85	0.52	6.54	1.28	11
21/11/19: 22:40:00 - 22:50:00	0.83	6.90	0.51	6.57	1.14	10.5

21/11/19: 22:50:00 - 23:00:00	1.00	6.98	0.67	7.10	1.68	17
21/11/19: 23:00:00 - 23:10:00	0.81	6.73	0.49	6.57	1.26	9.5
21/11/19: 23:10:00 - 23:20:00	0.97	6.79	0.62	6.68	1.33	9
21/11/19: 23:20:00 - 23:30:00	0.85	6.72	0.54	6.57	1.40	10
21/11/19: 23:30:00 - 23:40:00	0.93	6.71	0.59	6.66	1.47	13.5
21/11/19: 23:40:00 - 23:50:00	0.93	6.76	0.60	6.42	1.49	9
21/11/19: 23:50:00 - 00:00:00	0.90	6.81	0.60	6.66	1.24	9.5
22/11/19: 00:00:00 - 00:10:00	0.81	6.65	0.47	6.22	1.34	10
22/11/19: 00:10:00 - 00:20:00	1.00	6.75	0.64	7.01	1.59	10.5
22/11/19: 00:20:00 - 00:30:00	0.79	6.79	0.54	6.71	1.05	10
22/11/19: 00:30:00 - 00:40:00	0.86	6.61	0.55	6.43	1.55	9.5
22/11/19: 00:40:00 - 00:50:00	0.76	6.76	0.47	6.64	1.31	11
22/11/19: 00:50:00 - 01:00:00	0.79	6.24	0.49	6.34	1.04	9.5
22/11/19: 01:00:00 - 01:10:00	0.75	6.45	0.50	6.74	1.13	10.5
22/11/19: 01:10:00 - 01:20:00	0.78	6.65	0.49	6.29	1.13	10
22/11/19: 01:20:00 - 01:30:00	0.77	6.58	0.50	6.39	1.09	8.5
22/11/19: 01:30:00 - 01:40:00	0.69	6.60	0.47	6.69	0.97	11
22/11/19: 01:40:00 - 01:50:00	0.70	6.66	0.43	6.31	1.03	10.5
22/11/19: 01:50:00 - 02:00:00	0.78	6.61	0.47	6.35	1.20	9.5
22/11/19: 02:00:00 - 02:10:00	0.71	6.56	0.48	6.36	1.06	9
22/11/19: 02:10:00 - 02:20:00	0.72	6.48	0.49	6.54	1.18	9.5
22/11/19: 02:20:00 - 02:30:00	0.62	6.39	0.40	6.08	0.87	15
22/11/19: 02:30:00 - 02:40:00	0.75	6.63	0.47	6.34	1.34	10.5
22/11/19: 02:40:00 - 02:50:00	0.70	6.60	0.43	6.22	1.17	10.5
22/11/19: 02:50:00 - 03:00:00	0.63	6.70	0.36	6.43	1.04	11
22/11/19: 03:00:00 - 03:10:00	0.57	6.32	0.38	5.98	0.77	11
22/11/19: 03:10:00 - 03:20:00	0.60	6.44	0.38	6.26	1.01	9.5
22/11/19: 03:20:00 - 03:30:00	0.68	6.68	0.45	6.48	1.04	9.5
22/11/19: 03:30:00 - 03:40:00	0.70	6.53	0.47	6.50	0.95	10
22/11/19: 03:40:00 - 03:50:00	0.65	6.48	0.43	6.40	0.91	9.5
22/11/19: 03:50:00 - 04:00:00	0.54	6.24	0.35	5.96	0.69	9
22/11/19: 04:00:00 - 04:10:00	0.53	6.53	0.33	6.14	0.96	9.5
22/11/19: 04:10:00 - 04:20:00	0.56	6.47	0.36	6.21	1.00	10.5
22/11/19: 04:20:00 - 04:30:00	0.53	6.35	0.34	5.94	0.89	9
22/11/19: 04:30:00 - 04:40:00	0.52	6.55	0.32	6.10	0.76	9
22/11/19: 04:40:00 - 04:50:00	0.53	6.58	0.35	6.25	0.86	9
22/11/19: 04:50:00 - 05:00:00	0.50	6.77	0.32	6.39	0.80	9.5
22/11/19: 05:00:00 - 05:10:00	0.54	6.50	0.32	6.00	0.89	10
22/11/19: 05:10:00 - 05:20:00	0.56	6.53	0.36	6.28	0.89	9.5
22/11/19: 05:20:00 - 05:30:00	0.59	6.37	0.37	6.27	0.93	10.5
22/11/19: 05:30:00 - 05:40:00	0.58	6.65	0.37	6.35	1.02	9.5
22/11/19: 05:40:00 - 05:50:00	0.55	6.47	0.33	6.13	0.83	9
22/11/19: 05:50:00 - 06:00:00	0.48	6.53	0.31	6.32	0.77	9
22/11/19: 06:00:00 - 06:10:00	0.46	6.16	0.29	6.28	0.66	9.5
22/11/19: 06:10:00 - 06:20:00	0.45	6.61	0.26	5.87	0.68	11
22/11/19: 06:20:00 - 06:30:00	0.50	6.69	0.31	6.29	0.83	9
22/11/19: 06:30:00 - 06:40:00	0.45	6.73	0.29	6.33	0.72	10.5
22/11/19: 06:40:00 - 06:50:00	0.50	6.72	0.30	6.57	0.81	11.5
22/11/19: 06:50:00 - 07:00:00	0.45	6.45	0.29	6.44	0.66	9
22/11/19: 07:00:00 - 07:10:00	0.44	6.42	0.27	6.28	0.67	11
22/11/19: 07:10:00 - 07:20:00	0.38	6.72	0.23	6.16	0.62	9
22/11/19: 07:20:00 - 07:30:00	0.49	6.70	0.30	6.57	0.95	13.5
22/11/19: 07:30:00 - 07:40:00	0.60	6.83	0.39	6.67	0.79	9.5
22/11/19: 07:40:00 - 07:50:00	0.43	6.72	0.28	6.58	0.63	15
22/11/19: 07:50:00 - 08:00:00	0.46	6.62	0.29	6.65	0.77	10
22/11/19: 08:00:00 - 08:10:00	0.39	6.28	0.25	6.13	0.60	9
22/11/19: 08:10:00 - 08:20:00	0.44	6.52	0.27	6.31	0.62	10.5
22/11/19: 08:20:00 - 08:30:00	0.42	6.50	0.27	6.03	0.70	9
22/11/19: 08:30:00 - 08:40:00	0.48	6.60	0.32	6.29	0.65	9
22/11/19: 08:40:00 - 08:50:00	0.43	6.47	0.27	6.42	0.75	11.5
22/11/19: 08:50:00 - 09:00:00	0.45	6.56	0.29	6.16	0.70	8.5
22/11/19: 09:00:00 - 09:10:00	0.53	6.63	0.33	6.31	0.87	9
22/11/19: 09:10:00 - 09:20:00	0.47	6.47	0.30	6.25	0.66	9.5
22/11/19: 09:20:00 - 09:30:00	0.48	6.77	0.30	6.50	0.73	12.5
22/11/19: 09:30:00 - 09:40:00	0.51	6.86	0.32	6.89	0.68	14.5
22/11/19: 09:40:00 - 09:50:00	0.45	6.28	0.29	6.23	0.81	13.5
22/11/19: 09:50:00 - 10:00:00	0.56	6.69	0.36	6.34	0.83	9.5
22/11/19: 10:00:00 - 10:10:00	0.57	6.69	0.35	6.40	0.91	10
22/11/19: 10:10:00 - 10:20:00	0.64	6.63	0.40	6.32	1.02	10
22/11/19: 10:20:00 - 10:30:00	0.59	6.52	0.39	6.35	0.89	9

22/11/19: 10:30:00 - 10:40:00	0.62	6.55	0.38	6.43	0.99	9
22/11/19: 10:40:00 - 10:50:00	0.53	6.61	0.33	6.24	0.80	9.5
22/11/19: 10:50:00 - 11:00:00	0.55	6.40	0.37	6.54	0.84	9.5
22/11/19: 11:00:00 - 11:10:00	0.49	6.61	0.31	6.17	0.78	9
22/11/19: 11:10:00 - 11:20:00	0.53	6.49	0.32	5.73	0.74	9.5
22/11/19: 11:20:00 - 11:30:00	0.51	6.32	0.29	5.81	0.69	9
22/11/19: 11:30:00 - 11:40:00	0.49	6.27	0.32	6.21	0.89	10.5
22/11/19: 11:40:00 - 11:50:00	0.48	6.44	0.30	6.15	0.75	10.5
22/11/19: 11:50:00 - 12:00:00	0.56	6.39	0.37	6.13	0.78	10.5
22/11/19: 12:00:00 - 12:10:00	0.63	6.53	0.39	6.08	0.98	9.5
22/11/19: 12:10:00 - 12:20:00	0.56	6.17	0.35	5.92	0.95	9
22/11/19: 12:20:00 - 12:30:00	0.56	6.32	0.38	6.34	0.70	9
22/11/19: 12:30:00 - 12:40:00	0.50	6.28	0.31	5.77	0.77	9.5
22/11/19: 12:40:00 - 12:50:00	0.54	6.44	0.34	5.91	0.80	9.5
22/11/19: 12:50:00 - 13:00:00	0.57	6.36	0.36	5.93	0.93	10.5
22/11/19: 13:00:00 - 13:10:00	0.60	6.29	0.37	6.20	1.02	8.5
22/11/19: 13:10:00 - 13:20:00	0.54	6.33	0.35	6.01	0.82	13
22/11/19: 13:20:00 - 13:30:00	0.52	6.21	0.31	5.88	0.81	8.5
22/11/19: 13:30:00 - 13:40:00	0.58	6.17	0.35	6.06	0.90	11
22/11/19: 13:40:00 - 13:50:00	0.45	6.04	0.28	5.60	0.79	8
22/11/19: 13:50:00 - 14:00:00	0.51	5.94	0.34	5.92	0.67	9.5
22/11/19: 14:00:00 - 14:10:00	0.50	5.91	0.31	5.60	0.77	9.5
22/11/19: 14:10:00 - 14:20:00	0.44	6.14	0.26	5.57	0.88	9
22/11/19: 14:20:00 - 14:30:00	0.47	5.83	0.30	5.85	0.69	11.5
22/11/19: 14:30:00 - 14:40:00	0.37	6.07	0.23	5.44	0.56	9
22/11/19: 14:40:00 - 14:50:00	0.51	5.93	0.32	5.64	0.74	8.5
22/11/19: 14:50:00 - 15:00:00	0.49	5.73	0.31	6.00	0.68	11
22/11/19: 15:00:00 - 15:10:00	0.48	5.88	0.30	5.74	0.63	8.5
22/11/19: 15:10:00 - 15:20:00	0.49	5.83	0.30	5.85	0.75	8.5
22/11/19: 15:20:00 - 15:30:00	0.44	5.80	0.29	5.64	0.62	9
22/11/19: 15:30:00 - 15:40:00	0.36	5.89	0.22	5.47	0.59	11
22/11/19: 15:40:00 - 15:50:00	0.50	5.77	0.34	5.64	0.72	8.5
22/11/19: 15:50:00 - 16:00:00	0.49	5.90	0.30	5.72	0.79	8.5
22/11/19: 16:00:00 - 16:10:00	0.37	5.79	0.24	5.42	0.56	8.5
22/11/19: 16:10:00 - 16:20:00	0.42	5.72	0.26	5.50	0.61	9.5
22/11/19: 16:20:00 - 16:30:00	0.39	5.54	0.25	5.53	0.56	8.5
22/11/19: 16:30:00 - 16:40:00	0.35	5.72	0.22	5.76	0.61	10
22/11/19: 16:40:00 - 16:50:00	0.41	5.67	0.26	5.51	0.69	9
22/11/19: 16:50:00 - 17:00:00	0.42	5.76	0.26	5.58	0.62	9
22/11/19: 17:00:00 - 17:10:00	0.45	5.64	0.29	5.28	0.60	8.5
22/11/19: 17:10:00 - 17:20:00	0.37	5.74	0.23	5.49	0.50	12.5
22/11/19: 17:20:00 - 17:30:00	0.36	5.84	0.23	5.70	0.52	10
22/11/19: 17:30:00 - 17:40:00	0.31	5.83	0.18	5.39	0.57	8.5
22/11/19: 17:40:00 - 17:50:00	0.37	5.70	0.24	5.70	0.53	8.5
22/11/19: 17:50:00 - 18:00:00	0.32	5.92	0.23	5.88	0.46	8.5
22/11/19: 18:00:00 - 18:10:00	0.31	5.80	0.19	5.55	0.45	9.5
22/11/19: 18:10:00 - 18:20:00	0.30	5.91	0.19	5.57	0.45	8.5
22/11/19: 18:20:00 - 18:30:00	0.41	5.84	0.25	5.63	0.66	11
22/11/19: 18:30:00 - 18:40:00	0.29	6.04	0.18	5.74	0.49	13.5
22/11/19: 18:40:00 - 18:50:00	0.28	5.74	0.18	5.56	0.40	9
22/11/19: 18:50:00 - 19:00:00	0.30	5.67	0.20	5.53	0.45	9
22/11/19: 19:00:00 - 19:10:00	0.28	5.91	0.18	5.68	0.42	11
22/11/19: 19:10:00 - 19:20:00	0.29	5.69	0.18	5.37	0.46	8.5
22/11/19: 19:20:00 - 19:30:00	0.27	5.69	0.18	5.72	0.43	9.5
22/11/19: 19:30:00 - 19:40:00	0.29	6.01	0.17	5.35	0.44	11
22/11/19: 19:40:00 - 19:50:00	0.31	6.01	0.19	5.49	0.57	10
22/11/19: 19:50:00 - 20:00:00	0.34	5.81	0.23	5.68	0.50	8.5
22/11/19: 20:00:00 - 20:10:00	0.31	5.99	0.20	5.63	0.54	9.5
22/11/19: 20:10:00 - 20:20:00	0.34	5.74	0.21	5.63	0.50	11
22/11/19: 20:20:00 - 20:30:00	0.34	6.00	0.21	5.64	0.65	10
22/11/19: 20:30:00 - 20:40:00	0.31	6.01	0.20	5.68	0.44	10
22/11/19: 20:40:00 - 20:50:00	0.28	5.99	0.17	5.47	0.48	9.5
22/11/19: 20:50:00 - 21:00:00	0.25	6.32	0.14	5.19	0.45	8.5
22/11/19: 21:00:00 - 21:10:00	0.27	6.00	0.17	5.75	0.40	9.5
22/11/19: 21:10:00 - 21:20:00	0.30	5.91	0.19	5.75	0.52	10
22/11/19: 21:20:00 - 21:30:00	0.29	5.96	0.19	5.65	0.50	8.5
22/11/19: 21:30:00 - 21:40:00	0.25	6.37	0.15	5.77	0.46	12.5
22/11/19: 21:40:00 - 21:50:00	0.25	5.95	0.16	5.33	0.37	12
22/11/19: 21:50:00 - 22:00:00	0.25	6.09	0.15	5.52	0.39	11.5
22/11/19: 22:00:00 - 22:10:00	0.29	5.93	0.18	5.81	0.45	11.5

22/11/19: 22:10:00 - 22:20:00	0.29	5.79	0.20	5.80	0.45	11.5
22/11/19: 22:20:00 - 22:30:00	0.28	5.64	0.18	5.67	0.47	11
22/11/19: 22:30:00 - 22:40:00	0.33	5.93	0.22	5.70	0.49	11.5
22/11/19: 22:40:00 - 22:50:00	0.30	5.93	0.18	5.56	0.49	15.5
22/11/19: 22:50:00 - 23:00:00	0.30	5.69	0.20	5.51	0.47	9
22/11/19: 23:00:00 - 23:10:00	0.33	5.81	0.21	5.64	0.50	10
22/11/19: 23:10:00 - 23:20:00	0.32	5.76	0.21	5.63	0.52	12
22/11/19: 23:20:00 - 23:30:00	0.28	5.61	0.19	5.58	0.43	8
22/11/19: 23:30:00 - 23:40:00	0.30	5.94	0.19	5.55	0.44	10.5
22/11/19: 23:40:00 - 23:50:00	0.32	5.79	0.20	5.45	0.54	11
22/11/19: 23:50:00 - 00:00:00	0.32	5.82	0.21	5.43	0.50	8
23/11/19: 00:00:00 - 00:10:00	0.41	5.84	0.24	5.57	0.67	9.5
23/11/19: 00:10:00 - 00:20:00	0.38	5.60	0.25	5.68	0.68	11
23/11/19: 00:20:00 - 00:30:00	0.37	5.74	0.23	5.41	0.58	8.5
23/11/19: 00:30:00 - 00:40:00	0.39	5.69	0.24	5.36	0.69	8.5
23/11/19: 00:40:00 - 00:50:00	0.38	5.93	0.23	5.47	0.62	12.5
23/11/19: 00:50:00 - 01:00:00	0.39	5.74	0.25	5.47	0.61	8
23/11/19: 01:00:00 - 01:10:00	0.43	5.61	0.28	5.43	0.62	8.5
23/11/19: 01:10:00 - 01:20:00	0.43	5.68	0.28	5.48	0.65	8
23/11/19: 01:20:00 - 01:30:00	0.38	5.64	0.25	5.57	0.61	9.5
23/11/19: 01:30:00 - 01:40:00	0.44	5.69	0.26	5.35	0.70	9.5
23/11/19: 01:40:00 - 01:50:00	0.43	5.66	0.27	5.38	0.67	8
23/11/19: 01:50:00 - 02:00:00	0.40	5.67	0.23	5.02	0.64	8.5
23/11/19: 02:00:00 - 02:10:00	0.45	5.63	0.29	5.62	0.84	9.5
23/11/19: 02:10:00 - 02:20:00	0.46	5.69	0.28	5.45	0.68	9.5
23/11/19: 02:20:00 - 02:30:00	0.50	5.78	0.32	5.77	0.75	8
23/11/19: 02:30:00 - 02:40:00	0.47	5.80	0.29	5.54	0.62	9
23/11/19: 02:40:00 - 02:50:00	0.52	5.69	0.34	5.70	0.88	10.5
23/11/19: 02:50:00 - 03:00:00	0.50	5.80	0.31	5.63	0.89	9.5
23/11/19: 03:00:00 - 03:10:00	0.44	6.10	0.26	5.64	0.69	9.5
23/11/19: 03:10:00 - 03:20:00	0.44	5.77	0.28	5.64	0.63	9.5
23/11/19: 03:20:00 - 03:30:00	0.50	5.84	0.31	5.55	0.76	8
23/11/19: 03:30:00 - 03:40:00	0.42	5.99	0.28	5.51	0.64	8.5
23/11/19: 03:40:00 - 03:50:00	0.45	5.84	0.29	5.75	0.62	8.5
23/11/19: 03:50:00 - 04:00:00	0.52	5.87	0.32	5.71	1.00	8.5
23/11/19: 04:00:00 - 04:10:00	0.53	5.90	0.34	5.63	0.92	8
23/11/19: 04:10:00 - 04:20:00	0.51	5.94	0.32	5.47	0.78	8.5
23/11/19: 04:20:00 - 04:30:00	0.54	5.94	0.32	5.55	0.77	8.5
23/11/19: 04:30:00 - 04:40:00	0.47	5.77	0.31	5.58	0.67	9
23/11/19: 04:40:00 - 04:50:00	0.47	5.74	0.29	5.31	0.77	8.5
23/11/19: 04:50:00 - 05:00:00	0.56	5.94	0.34	5.64	0.90	9.5
23/11/19: 05:00:00 - 05:10:00	0.49	5.91	0.30	5.66	0.75	9
23/11/19: 05:10:00 - 05:20:00	0.55	6.22	0.34	6.06	0.91	9
23/11/19: 05:20:00 - 05:30:00	0.43	6.06	0.28	5.81	0.63	9.5
23/11/19: 05:30:00 - 05:40:00	0.48	6.09	0.32	5.77	0.69	8.5
23/11/19: 05:40:00 - 05:50:00	0.53	6.14	0.34	5.98	0.70	10
23/11/19: 05:50:00 - 06:00:00	0.50	6.17	0.32	5.88	0.82	11
23/11/19: 06:00:00 - 06:10:00	0.49	5.98	0.32	5.92	0.99	8
23/11/19: 06:10:00 - 06:20:00	0.46	6.17	0.29	6.07	0.69	10
23/11/19: 06:20:00 - 06:30:00	0.54	6.17	0.34	5.94	0.67	9
23/11/19: 06:30:00 - 06:40:00	0.46	6.14	0.29	6.00	0.71	10
23/11/19: 06:40:00 - 06:50:00	0.43	6.07	0.27	5.78	0.61	8.5
23/11/19: 06:50:00 - 07:00:00	0.39	6.03	0.23	5.74	0.67	9
23/11/19: 07:00:00 - 07:10:00	0.37	5.94	0.24	5.51	0.62	7.5
23/11/19: 07:10:00 - 07:20:00	0.45	6.14	0.27	5.87	0.74	9.5
23/11/19: 07:20:00 - 07:30:00	0.45	6.15	0.29	5.97	0.78	10
23/11/19: 07:30:00 - 07:40:00	0.50	6.14	0.31	5.91	0.75	9
23/11/19: 07:40:00 - 07:50:00	0.44	6.07	0.27	5.68	0.71	9
23/11/19: 07:50:00 - 08:00:00	0.46	6.07	0.28	5.73	0.64	8.5
23/11/19: 08:00:00 - 08:10:00	0.48	6.25	0.31	6.14	0.64	10.5
23/11/19: 08:10:00 - 08:20:00	0.40	6.27	0.26	6.10	0.59	9
23/11/19: 08:20:00 - 08:30:00	0.46	6.21	0.27	5.86	0.73	10
23/11/19: 08:30:00 - 08:40:00	0.41	6.26	0.27	6.00	0.68	10.5
23/11/19: 08:40:00 - 08:50:00	0.54	6.24	0.35	6.00	0.98	8.5
23/11/19: 08:50:00 - 09:00:00	0.41	6.31	0.27	6.10	0.63	8.5
23/11/19: 09:00:00 - 09:10:00	0.45	6.19	0.29	6.08	0.80	9.5
23/11/19: 09:10:00 - 09:20:00	0.54	6.24	0.32	6.05	0.82	8.5
23/11/19: 09:20:00 - 09:30:00	0.57	6.31	0.34	6.05	0.93	8.5
23/11/19: 09:30:00 - 09:40:00	0.46	6.21	0.29	5.85	0.80	8
23/11/19: 09:40:00 - 09:50:00	0.47	6.22	0.29	6.11	0.66	9.5

23/11/19: 09:50:00 - 10:00:00	0.50	6.27	0.32	6.21	0.75	10
23/11/19: 10:00:00 - 10:10:00	0.53	6.48	0.35	6.34	0.70	8.5
23/11/19: 10:10:00 - 10:20:00	0.50	6.41	0.29	6.10	0.82	9.5
23/11/19: 10:20:00 - 10:30:00	0.47	6.21	0.30	5.98	0.74	9
23/11/19: 10:30:00 - 10:40:00	0.66	6.60	0.42	6.44	0.92	9.5
23/11/19: 10:40:00 - 10:50:00	0.62	6.28	0.42	6.15	0.89	8.5
23/11/19: 10:50:00 - 11:00:00	0.57	6.50	0.35	6.26	0.90	9
23/11/19: 11:00:00 - 11:10:00	0.61	6.62	0.41	6.55	0.87	9
23/11/19: 11:10:00 - 11:20:00	0.70	6.62	0.43	6.41	1.23	9.5
23/11/19: 11:20:00 - 11:30:00	0.68	6.63	0.43	6.35	0.91	9
23/11/19: 11:30:00 - 11:40:00	0.69	6.28	0.46	6.42	0.94	9.5
23/11/19: 11:40:00 - 11:50:00	0.61	6.42	0.41	6.36	1.06	9
23/11/19: 11:50:00 - 12:00:00	0.67	6.31	0.44	6.30	1.18	8
23/11/19: 12:00:00 - 12:10:00	0.68	6.53	0.44	6.40	0.96	9.5
23/11/19: 12:10:00 - 12:20:00	0.61	6.69	0.38	6.34	1.07	9
23/11/19: 12:20:00 - 12:30:00	0.76	6.55	0.50	6.55	1.13	10
23/11/19: 12:30:00 - 12:40:00	0.59	6.53	0.35	5.72	1.15	8.5
23/11/19: 12:40:00 - 12:50:00	0.67	6.55	0.47	6.43	1.03	8.5
23/11/19: 12:50:00 - 13:00:00	0.67	6.52	0.41	6.10	1.14	9.5
23/11/19: 13:00:00 - 13:10:00	0.65	6.77	0.40	6.12	1.06	8.5
23/11/19: 13:10:00 - 13:20:00	0.80	6.31	0.51	6.26	1.20	8.5
23/11/19: 13:20:00 - 13:30:00	0.79	6.55	0.47	6.23	1.08	9.5
23/11/19: 13:30:00 - 13:40:00	0.75	6.33	0.44	5.94	1.18	8
23/11/19: 13:40:00 - 13:50:00	0.70	6.44	0.42	6.12	1.25	9
23/11/19: 13:50:00 - 14:00:00	0.74	6.27	0.46	6.12	1.37	9.5
23/11/19: 14:00:00 - 14:10:00	0.70	6.36	0.44	6.04	1.03	8.5
23/11/19: 14:10:00 - 14:20:00	0.73	6.42	0.43	6.13	1.25	8.5
23/11/19: 14:20:00 - 14:30:00	0.66	6.37	0.45	6.28	0.79	11
23/11/19: 14:30:00 - 14:40:00	0.68	6.27	0.44	6.34	1.04	9
23/11/19: 14:40:00 - 14:50:00	0.70	6.37	0.45	6.33	1.21	9.5
23/11/19: 14:50:00 - 15:00:00	0.64	6.36	0.39	6.12	1.03	9.5
23/11/19: 15:00:00 - 15:10:00	0.80	6.52	0.51	6.29	1.11	9.5
23/11/19: 15:10:00 - 15:20:00	0.77	6.48	0.48	6.25	1.07	8.5
23/11/19: 15:20:00 - 15:30:00	0.66	6.42	0.43	6.29	0.99	8.5
23/11/19: 15:30:00 - 15:40:00	0.66	6.40	0.44	6.35	1.03	9.5
23/11/19: 15:40:00 - 15:50:00	0.51	6.37	0.35	6.27	0.68	11
23/11/19: 15:50:00 - 16:00:00	0.54	6.31	0.34	5.65	0.72	8.5
23/11/19: 16:00:00 - 16:10:00	0.57	6.47	0.37	6.27	0.77	10
23/11/19: 16:10:00 - 16:20:00	0.55	6.37	0.35	6.33	0.82	9
23/11/19: 16:20:00 - 16:30:00	0.49	6.29	0.29	5.82	0.66	8.5
23/11/19: 16:30:00 - 16:40:00	0.58	6.31	0.38	6.23	0.82	10
23/11/19: 16:40:00 - 16:50:00	0.49	6.33	0.30	6.08	0.77	9.5
23/11/19: 16:50:00 - 17:00:00	0.47	6.42	0.32	6.22	0.63	10.5
23/11/19: 17:00:00 - 17:10:00	0.42	6.26	0.27	5.96	0.67	9
23/11/19: 17:10:00 - 17:20:00	0.52	6.12	0.31	5.80	0.88	8.5
23/11/19: 17:20:00 - 17:30:00	0.53	6.41	0.33	6.10	0.90	9
23/11/19: 17:30:00 - 17:40:00	0.52	6.16	0.33	6.23	0.75	10
23/11/19: 17:40:00 - 17:50:00	0.48	6.32	0.30	5.93	0.74	9
23/11/19: 17:50:00 - 18:00:00	0.40	6.25	0.26	6.07	0.59	9.5
23/11/19: 18:00:00 - 18:10:00	0.37	6.09	0.24	5.87	0.59	8.5
23/11/19: 18:10:00 - 18:20:00	0.42	6.27	0.27	5.92	0.59	9
23/11/19: 18:20:00 - 18:30:00	0.37	6.06	0.22	5.56	0.58	10
23/11/19: 18:30:00 - 18:40:00	0.40	6.23	0.27	6.19	0.68	8.5
23/11/19: 18:40:00 - 18:50:00	0.36	6.23	0.23	5.86	0.51	8.5
23/11/19: 18:50:00 - 19:00:00	0.35	6.10	0.23	5.79	0.48	10
23/11/19: 19:00:00 - 19:10:00	0.37	6.07	0.23	5.69	0.63	9.5
23/11/19: 19:10:00 - 19:20:00	0.35	5.97	0.21	5.77	0.55	8.5
23/11/19: 19:20:00 - 19:30:00	0.31	5.79	0.20	5.73	0.49	10
23/11/19: 19:30:00 - 19:40:00	0.34	6.06	0.23	5.82	0.46	9
23/11/19: 19:40:00 - 19:50:00	0.33	6.12	0.21	5.79	0.46	11
23/11/19: 19:50:00 - 20:00:00	0.28	5.96	0.17	5.57	0.38	9.5
23/11/19: 20:00:00 - 20:10:00	0.30	5.94	0.18	5.51	0.44	10.5
23/11/19: 20:10:00 - 20:20:00	0.24	5.79	0.13	5.14	0.38	8.5
23/11/19: 20:20:00 - 20:30:00	0.22	6.04	0.13	5.29	0.30	10
23/11/19: 20:30:00 - 20:40:00	0.23	5.96	0.14	5.57	0.36	8.5
23/11/19: 20:40:00 - 20:50:00	0.26	5.84	0.17	5.75	0.34	9
23/11/19: 20:50:00 - 21:00:00	0.25	5.96	0.15	5.26	0.42	9
23/11/19: 21:00:00 - 21:10:00	0.22	5.90	0.14	5.77	0.31	11
23/11/19: 21:10:00 - 21:20:00	0.20	5.92	0.13	5.38	0.32	10
23/11/19: 21:20:00 - 21:30:00	0.18	5.68	0.12	5.46	0.29	10.5

23/11/19: 21:30:00 - 21:40:00	0.15	6.31	0.09	5.27	0.22	10
23/11/19: 21:40:00 - 21:50:00	0.19	6.08	0.11	5.16	0.28	10
23/11/19: 21:50:00 - 22:00:00	0.18	5.60	0.11	5.40	0.26	10
23/11/19: 22:00:00 - 22:10:00	0.19	5.85	0.11	5.30	0.35	10
23/11/19: 22:10:00 - 22:20:00	0.15	5.82	0.09	5.21	0.20	10
23/11/19: 22:20:00 - 22:30:00	0.16	5.68	0.10	5.09	0.26	8
23/11/19: 22:30:00 - 22:40:00	0.15	5.65	0.09	5.33	0.22	11
23/11/19: 22:40:00 - 22:50:00	0.15	5.51	0.10	5.31	0.24	10
23/11/19: 22:50:00 - 23:00:00	0.18	5.54	0.11	5.29	0.27	9
23/11/19: 23:00:00 - 23:10:00	0.18	5.62	0.11	5.29	0.31	10
23/11/19: 23:10:00 - 23:20:00	0.17	5.61	0.10	4.96	0.27	11.5
23/11/19: 23:20:00 - 23:30:00	0.15	5.80	0.10	5.23	0.24	9
23/11/19: 23:30:00 - 23:40:00	0.17	5.46	0.11	5.15	0.30	10
23/11/19: 23:40:00 - 23:50:00	0.18	5.51	0.11	5.23	0.30	13
23/11/19: 23:50:00 - 00:00:00	0.21	5.43	0.14	5.27	0.31	8.5
24/11/19: 00:00:00 - 00:10:00	0.22	5.15	0.13	4.93	0.39	7.5
24/11/19: 00:10:00 - 00:20:00	0.17	5.65	0.11	5.46	0.31	11.5
24/11/19: 00:20:00 - 00:30:00	0.16	5.44	0.10	4.91	0.30	11.5
24/11/19: 00:30:00 - 00:40:00	0.16	5.84	0.10	5.18	0.28	10
24/11/19: 00:40:00 - 00:50:00	0.19	5.47	0.13	5.27	0.29	11.5
24/11/19: 00:50:00 - 01:00:00	0.17	5.59	0.10	5.17	0.35	10
24/11/19: 01:00:00 - 01:10:00	0.16	5.69	0.10	5.06	0.23	11
24/11/19: 01:10:00 - 01:20:00	0.14	5.50	0.09	5.11	0.23	11
24/11/19: 01:20:00 - 01:30:00	0.17	5.38	0.10	4.88	0.26	11
24/11/19: 01:30:00 - 01:40:00	0.14	5.49	0.09	4.97	0.24	11
24/11/19: 01:40:00 - 01:50:00	0.13	5.09	0.08	4.60	0.21	10
24/11/19: 01:50:00 - 02:00:00	0.15	5.17	0.09	4.74	0.23	9
24/11/19: 02:00:00 - 02:10:00	0.15	5.16	0.10	4.78	0.21	13
24/11/19: 02:10:00 - 02:20:00	0.15	5.64	0.09	4.88	0.23	12.5
24/11/19: 02:20:00 - 02:30:00	0.15	5.13	0.10	4.58	0.21	16
24/11/19: 02:30:00 - 02:40:00	0.14	5.46	0.08	4.89	0.21	11
24/11/19: 02:40:00 - 02:50:00	0.14	5.01	0.08	4.43	0.22	9
24/11/19: 02:50:00 - 03:00:00	0.16	5.10	0.10	4.97	0.23	14
24/11/19: 03:00:00 - 03:10:00	0.13	5.38	0.08	4.52	0.20	10.5
24/11/19: 03:10:00 - 03:20:00	0.13	5.55	0.09	4.72	0.21	11.5
24/11/19: 03:20:00 - 03:30:00	0.13	5.15	0.08	4.53	0.21	12
24/11/19: 03:30:00 - 03:40:00	0.12	5.23	0.07	4.56	0.16	10
24/11/19: 03:40:00 - 03:50:00	0.13	5.23	0.08	4.67	0.20	9
24/11/19: 03:50:00 - 04:00:00	0.12	5.24	0.08	4.71	0.16	12
24/11/19: 04:00:00 - 04:10:00	0.10	4.97	0.06	4.26	0.15	7.5
24/11/19: 04:10:00 - 04:20:00	0.10	5.28	0.06	4.53	0.16	9.5
24/11/19: 04:20:00 - 04:30:00	0.10	5.01	0.06	4.29	0.19	11
24/11/19: 04:30:00 - 04:40:00	0.10	5.49	0.06	4.42	0.13	10.5
24/11/19: 04:40:00 - 04:50:00	0.09	5.41	0.06	4.21	0.15	9
24/11/19: 04:50:00 - 05:00:00	0.09	5.51	0.06	4.46	0.14	12
24/11/19: 05:00:00 - 05:10:00	0.09	5.66	0.05	4.61	0.17	12
24/11/19: 05:10:00 - 05:20:00	0.09	5.36	0.05	4.36	0.15	10.5
24/11/19: 05:20:00 - 05:30:00	0.09	5.52	0.06	4.71	0.12	13
24/11/19: 05:30:00 - 05:40:00	0.09	5.48	0.05	4.92	0.15	11
24/11/19: 05:40:00 - 05:50:00	0.09	5.24	0.05	4.59	0.15	9.5
24/11/19: 05:50:00 - 06:00:00	0.08	5.33	0.05	4.52	0.16	11
24/11/19: 06:00:00 - 06:10:00	0.08	5.77	0.05	4.40	0.12	12.5
24/11/19: 06:10:00 - 06:20:00	0.08	5.47	0.05	4.59	0.12	12
24/11/19: 06:20:00 - 06:30:00	0.07	5.92	0.04	4.28	0.11	10
24/11/19: 06:30:00 - 06:40:00	0.08	6.29	0.05	5.12	0.16	13
24/11/19: 06:40:00 - 06:50:00	0.08	6.17	0.05	4.49	0.13	11
24/11/19: 06:50:00 - 07:00:00	0.07	6.13	0.05	4.66	0.11	11
24/11/19: 07:00:00 - 07:10:00	0.07	6.33	0.04	4.63	0.10	12.5
24/11/19: 07:10:00 - 07:20:00	0.06	6.56	0.04	4.63	0.11	10.5
24/11/19: 07:20:00 - 07:30:00	0.06	6.23	0.04	4.55	0.08	11.5
24/11/19: 07:30:00 - 07:40:00	0.07	7.54	0.04	4.94	0.09	13
24/11/19: 07:40:00 - 07:50:00	0.07	8.82	0.04	5.19	0.11	13.5
24/11/19: 07:50:00 - 08:00:00	0.08	8.78	0.04	5.25	0.12	14
24/11/19: 08:00:00 - 08:10:00	0.07	6.29	0.04	4.64	0.12	12.5
24/11/19: 08:10:00 - 08:20:00	0.08	8.69	0.05	5.78	0.14	13
24/11/19: 08:20:00 - 08:30:00	0.07	8.75	0.04	5.74	0.12	15
24/11/19: 08:30:00 - 08:40:00	0.09	9.29	0.05	5.98	0.14	14
24/11/19: 08:40:00 - 08:50:00	0.08	9.10	0.05	5.79	0.13	16.5
24/11/19: 08:50:00 - 09:00:00	0.09	10.05	0.05	6.56	0.13	13
24/11/19: 09:00:00 - 09:10:00	0.07	9.11	0.04	5.58	0.13	14

24/11/19: 09:10:00 - 09:20:00	0.08	10.26	0.04	6.40	0.11	13
24/11/19: 09:20:00 - 09:30:00	0.08	9.02	0.05	5.95	0.15	13.5
24/11/19: 09:30:00 - 09:40:00	0.09	9.21	0.05	6.28	0.13	14.5
24/11/19: 09:40:00 - 09:50:00	0.09	9.40	0.05	5.68	0.14	15.5
24/11/19: 09:50:00 - 10:00:00	0.08	8.74	0.04	5.56	0.16	14
24/11/19: 10:00:00 - 10:10:00	0.08	10.00	0.04	5.58	0.14	14
24/11/19: 10:10:00 - 10:20:00	0.08	8.85	0.04	5.47	0.15	13.5
24/11/19: 10:20:00 - 10:30:00	0.08	10.30	0.04	6.23	0.13	14.5
24/11/19: 10:30:00 - 10:40:00	0.06	8.87	0.04	5.61	0.12	12.5
24/11/19: 10:40:00 - 10:50:00	0.07	9.78	0.04	6.10	0.09	16.5
24/11/19: 10:50:00 - 11:00:00	0.07	9.62	0.04	5.89	0.12	15.5
24/11/19: 11:00:00 - 11:10:00	0.09	10.93	0.05	6.85	0.15	14
24/11/19: 11:10:00 - 11:20:00	0.08	10.61	0.04	6.19	0.13	16
24/11/19: 11:20:00 - 11:30:00	0.07	9.63	0.04	5.86	0.12	16
24/11/19: 11:30:00 - 11:40:00	0.07	8.73	0.04	5.25	0.13	14
24/11/19: 11:40:00 - 11:50:00	0.09	9.62	0.05	6.74	0.13	14.5
24/11/19: 11:50:00 - 12:00:00	0.08	9.13	0.05	6.28	0.14	15.5
24/11/19: 12:00:00 - 12:10:00	0.08	8.96	0.04	5.62	0.17	13.5
24/11/19: 12:10:00 - 12:20:00	0.07	8.13	0.04	5.65	0.12	13
24/11/19: 12:20:00 - 12:30:00	0.08	7.84	0.04	5.00	0.12	12
24/11/19: 12:30:00 - 12:40:00	0.07	8.78	0.04	5.30	0.12	12.5
24/11/19: 12:40:00 - 12:50:00	0.07	8.51	0.04	5.35	0.11	15
24/11/19: 12:50:00 - 13:00:00	0.07	9.08	0.04	5.34	0.12	13.5
24/11/19: 13:00:00 - 13:10:00	0.06	7.99	0.04	5.20	0.10	12.5
24/11/19: 13:10:00 - 13:20:00	0.08	9.43	0.04	5.43	0.14	15.5
24/11/19: 13:20:00 - 13:30:00	0.07	8.71	0.04	5.66	0.11	14
24/11/19: 13:30:00 - 13:40:00	0.07	9.41	0.04	5.96	0.11	17.5
24/11/19: 13:40:00 - 13:50:00	0.06	8.85	0.04	5.39	0.11	14
24/11/19: 13:50:00 - 14:00:00	0.08	9.81	0.04	5.62	0.12	16
24/11/19: 14:00:00 - 14:10:00	0.06	8.83	0.04	5.17	0.09	14
24/11/19: 14:10:00 - 14:20:00	0.07	8.44	0.04	5.56	0.13	13.5
24/11/19: 14:20:00 - 14:30:00	0.08	9.15	0.05	5.98	0.13	15
24/11/19: 14:30:00 - 14:40:00	0.08	8.86	0.04	5.92	0.12	13.5
24/11/19: 14:40:00 - 14:50:00	0.07	9.88	0.04	6.04	0.12	16
24/11/19: 14:50:00 - 15:00:00	0.06	9.32	0.03	4.92	0.11	14
24/11/19: 15:00:00 - 15:10:00	0.07	9.65	0.04	5.90	0.10	13
24/11/19: 15:10:00 - 15:20:00	0.08	9.88	0.04	6.11	0.11	12.5
24/11/19: 15:20:00 - 15:30:00	0.06	8.43	0.04	5.50	0.10	14
24/11/19: 15:30:00 - 15:40:00	0.06	9.71	0.04	5.66	0.11	13.5
24/11/19: 15:40:00 - 15:50:00	0.05	7.81	0.03	4.57	0.10	13
24/11/19: 15:50:00 - 16:00:00	0.07	8.77	0.04	5.57	0.11	13.5
24/11/19: 16:00:00 - 16:10:00	0.06	8.65	0.04	5.47	0.10	12.5
24/11/19: 16:10:00 - 16:20:00	0.06	9.63	0.03	5.19	0.10	14
24/11/19: 16:20:00 - 16:30:00	0.06	8.68	0.03	5.42	0.10	13
24/11/19: 16:30:00 - 16:40:00	0.06	8.83	0.04	5.46	0.13	20
24/11/19: 16:40:00 - 16:50:00	0.05	8.62	0.03	5.21	0.08	16.5
24/11/19: 16:50:00 - 17:00:00	0.06	7.45	0.03	4.56	0.11	12.5
24/11/19: 17:00:00 - 17:10:00	0.07	7.65	0.04	4.99	0.12	12
24/11/19: 17:10:00 - 17:20:00	0.07	6.97	0.04	5.24	0.13	11.5
24/11/19: 17:20:00 - 17:30:00	0.07	7.21	0.04	5.26	0.13	11.5
24/11/19: 17:30:00 - 17:40:00	0.07	7.82	0.04	4.68	0.11	12
24/11/19: 17:40:00 - 17:50:00	0.07	7.75	0.04	5.76	0.11	12.5
24/11/19: 17:50:00 - 18:00:00	0.06	7.94	0.03	4.53	0.11	10.5
24/11/19: 18:00:00 - 18:10:00	0.07	7.56	0.04	4.75	0.12	10.5
24/11/19: 18:10:00 - 18:20:00	0.06	7.77	0.03	4.66	0.10	11
24/11/19: 18:20:00 - 18:30:00	0.06	7.62	0.03	4.81	0.12	11
24/11/19: 18:30:00 - 18:40:00	0.07	8.06	0.04	5.46	0.13	12.5
24/11/19: 18:40:00 - 18:50:00	0.07	7.68	0.04	5.27	0.12	12
24/11/19: 18:50:00 - 19:00:00	0.06	7.55	0.03	4.60	0.13	12.5
24/11/19: 19:00:00 - 19:10:00	0.06	7.80	0.04	5.26	0.10	14
24/11/19: 19:10:00 - 19:20:00	0.07	7.76	0.03	4.83	0.13	11
24/11/19: 19:20:00 - 19:30:00	0.07	7.86	0.04	5.52	0.12	13.5
24/11/19: 19:30:00 - 19:40:00	0.07	8.49	0.04	5.55	0.11	11
24/11/19: 19:40:00 - 19:50:00	0.07	7.21	0.04	4.94	0.12	13
24/11/19: 19:50:00 - 20:00:00	0.08	7.29	0.04	5.38	0.13	11
24/11/19: 20:00:00 - 20:10:00	0.07	7.32	0.04	4.79	0.13	11
24/11/19: 20:10:00 - 20:20:00	0.06	7.60	0.04	4.87	0.10	11
24/11/19: 20:20:00 - 20:30:00	0.10	7.36	0.06	5.56	0.19	11
24/11/19: 20:30:00 - 20:40:00	0.10	7.86	0.06	5.97	0.15	11.5
24/11/19: 20:40:00 - 20:50:00	0.09	7.19	0.05	5.29	0.18	12

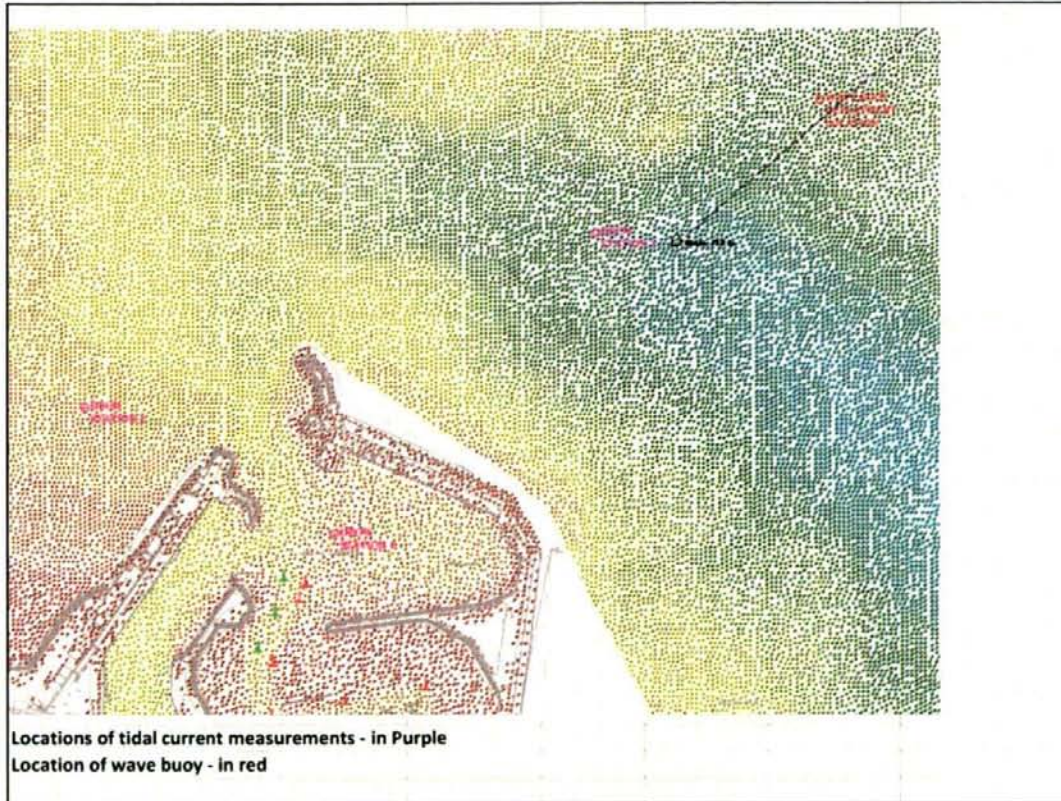
24/11/19: 20:50:00 - 21:00:00	0.08	7.82	0.04	5.35	0.12	11.5
24/11/19: 21:00:00 - 21:10:00	0.09	8.29	0.05	5.70	0.18	13.5
24/11/19: 21:10:00 - 21:20:00	0.09	7.68	0.06	5.78	0.16	12
24/11/19: 21:20:00 - 21:30:00	0.09	8.04	0.05	5.76	0.17	12
24/11/19: 21:30:00 - 21:40:00	0.08	8.56	0.05	5.56	0.15	13
24/11/19: 21:40:00 - 21:50:00	0.09	7.83	0.05	5.48	0.14	13
24/11/19: 21:50:00 - 22:00:00	0.08	7.56	0.05	5.44	0.12	13.5
24/11/19: 22:00:00 - 22:10:00	0.09	7.43	0.06	5.13	0.18	13.5
24/11/19: 22:10:00 - 22:20:00	0.09	6.46	0.05	4.77	0.13	11.5
24/11/19: 22:20:00 - 22:30:00	0.09	6.42	0.06	5.02	0.13	11.5
24/11/19: 22:30:00 - 22:40:00	0.09	6.82	0.06	4.87	0.15	12
24/11/19: 22:40:00 - 22:50:00	0.12	6.07	0.08	5.21	0.20	10.5
24/11/19: 22:50:00 - 23:00:00	0.13	6.01	0.08	5.19	0.22	12.5
24/11/19: 23:00:00 - 23:10:00	0.13	5.63	0.08	4.70	0.24	12.5
24/11/19: 23:10:00 - 23:20:00	0.15	5.36	0.10	5.25	0.24	12.5
24/11/19: 23:20:00 - 23:30:00	0.20	5.71	0.11	4.88	0.33	10.5
24/11/19: 23:30:00 - 23:40:00	0.21	5.50	0.13	5.12	0.43	10
24/11/19: 23:40:00 - 23:50:00	0.23	5.58	0.15	5.19	0.34	9.5
24/11/19: 23:50:00 - 00:00:00	0.23	5.42	0.15	5.43	0.38	9.5
25/11/19: 00:00:00 - 00:10:00	0.25	5.58	0.16	5.29	0.36	8
25/11/19: 00:10:00 - 00:20:00	0.27	5.68	0.16	5.13	0.40	9.5
25/11/19: 00:20:00 - 00:30:00	0.33	5.51	0.21	5.62	0.47	10
25/11/19: 00:30:00 - 00:40:00	0.32	5.69	0.20	5.73	0.56	12
25/11/19: 00:40:00 - 00:50:00	0.33	5.89	0.21	5.62	0.54	8
25/11/19: 00:50:00 - 01:00:00	0.36	5.64	0.22	5.34	0.59	8.5
25/11/19: 01:00:00 - 01:10:00	0.34	5.68	0.21	5.39	0.59	10
25/11/19: 01:10:00 - 01:20:00	0.36	5.60	0.23	5.62	0.52	8
25/11/19: 01:20:00 - 01:30:00	0.31	5.69	0.20	5.33	0.47	8
25/11/19: 01:30:00 - 01:40:00	0.38	5.76	0.23	5.56	0.58	11.5
25/11/19: 01:40:00 - 01:50:00	0.30	5.53	0.18	5.32	0.46	7.5
25/11/19: 01:50:00 - 02:00:00	0.27	5.47	0.18	5.20	0.43	8
25/11/19: 02:00:00 - 02:10:00	0.30	5.61	0.19	5.50	0.44	10
25/11/19: 02:10:00 - 02:20:00	0.29	5.64	0.18	5.21	0.52	8
25/11/19: 02:20:00 - 02:30:00	0.35	5.67	0.22	5.39	0.69	8
25/11/19: 02:30:00 - 02:40:00	0.28	5.55	0.17	5.09	0.41	8
25/11/19: 02:40:00 - 02:50:00	0.32	5.55	0.21	5.23	0.55	9.5
25/11/19: 02:50:00 - 03:00:00	0.30	5.23	0.19	5.24	0.51	9
25/11/19: 03:00:00 - 03:10:00	0.29	5.65	0.19	5.34	0.45	8
25/11/19: 03:10:00 - 03:20:00	0.30	5.55	0.18	5.21	0.54	10.5
25/11/19: 03:20:00 - 03:30:00	0.29	5.47	0.19	5.15	0.42	9.5
25/11/19: 03:30:00 - 03:40:00	0.32	5.50	0.21	5.15	0.53	10
25/11/19: 03:40:00 - 03:50:00	0.30	5.43	0.19	5.20	0.37	9
25/11/19: 03:50:00 - 04:00:00	0.29	5.14	0.18	5.07	0.44	8.5
25/11/19: 04:00:00 - 04:10:00	0.25	5.43	0.16	5.30	0.36	9.5
25/11/19: 04:10:00 - 04:20:00	0.28	5.33	0.18	5.19	0.41	8.5
25/11/19: 04:20:00 - 04:30:00	0.26	5.50	0.15	4.73	0.47	8
25/11/19: 04:30:00 - 04:40:00	0.27	5.46	0.17	5.14	0.38	10
25/11/19: 04:40:00 - 04:50:00	0.27	5.38	0.18	5.27	0.38	7.5
25/11/19: 04:50:00 - 05:00:00	0.24	5.31	0.17	5.05	0.33	8
25/11/19: 05:00:00 - 05:10:00	0.32	5.31	0.20	5.00	0.60	8
25/11/19: 05:10:00 - 05:20:00	0.30	5.51	0.19	5.28	0.51	9.5
25/11/19: 05:20:00 - 05:30:00	0.31	5.45	0.19	5.12	0.42	8
25/11/19: 05:30:00 - 05:40:00	0.29	5.54	0.18	5.35	0.38	8.5
25/11/19: 05:40:00 - 05:50:00	0.31	5.41	0.20	5.22	0.42	9
25/11/19: 05:50:00 - 06:00:00	0.25	5.42	0.16	5.17	0.40	8.5
25/11/19: 06:00:00 - 06:10:00	0.26	5.27	0.16	4.84	0.36	7.5
25/11/19: 06:10:00 - 06:20:00	0.23	5.29	0.14	5.00	0.35	8
25/11/19: 06:20:00 - 06:30:00	0.23	5.24	0.15	5.23	0.43	8.5
25/11/19: 06:30:00 - 06:40:00	0.19	5.37	0.13	5.03	0.30	8
25/11/19: 06:40:00 - 06:50:00	0.20	5.58	0.13	5.14	0.28	9
25/11/19: 06:50:00 - 07:00:00	0.23	5.45	0.15	5.28	0.38	9
25/11/19: 07:00:00 - 07:10:00	0.23	5.54	0.16	5.46	0.41	9
25/11/19: 07:10:00 - 07:20:00	0.24	5.53	0.14	5.19	0.46	8
25/11/19: 07:20:00 - 07:30:00	0.21	5.57	0.13	5.36	0.33	9
25/11/19: 07:30:00 - 07:40:00	0.23	5.79	0.15	5.26	0.33	9
25/11/19: 07:40:00 - 07:50:00	0.23	5.93	0.14	5.51	0.35	9
25/11/19: 07:50:00 - 08:00:00	0.27	5.74	0.17	5.67	0.38	13
25/11/19: 08:00:00 - 08:10:00	0.28	6.44	0.17	5.64	0.51	9
25/11/19: 08:10:00 - 08:20:00	0.25	5.97	0.16	5.51	0.43	9
25/11/19: 08:20:00 - 08:30:00	0.25	6.12	0.16	5.97	0.48	10

25/11/19: 08:30:00 - 08:40:00	0.25	6.39	0.16	5.89	0.41	11
25/11/19: 08:40:00 - 08:50:00	0.25	6.17	0.16	5.94	0.34	9.5
25/11/19: 08:50:00 - 09:00:00	0.28	6.58	0.17	5.96	0.52	10
25/11/19: 09:00:00 - 09:10:00	0.33	6.77	0.20	6.04	0.52	10
25/11/19: 09:10:00 - 09:20:00	0.28	7.00	0.18	6.15	0.38	10.5
25/11/19: 09:20:00 - 09:30:00	0.34	7.00	0.22	6.31	0.51	10
25/11/19: 09:30:00 - 09:40:00	0.34	7.29	0.20	6.31	0.47	9.5
25/11/19: 09:40:00 - 09:50:00	0.38	7.52	0.25	7.36	0.70	11
25/11/19: 09:50:00 - 10:00:00	0.32	7.19	0.21	6.67	0.44	10.5
25/11/19: 10:00:00 - 10:10:00	0.34	7.48	0.21	6.62	0.50	10
25/11/19: 10:10:00 - 10:20:00	0.41	7.78	0.25	7.16	0.56	11
25/11/19: 10:20:00 - 10:30:00	0.40	7.67	0.27	7.40	0.58	11
25/11/19: 10:30:00 - 10:40:00	0.35	7.70	0.22	7.11	0.52	10
25/11/19: 10:40:00 - 10:50:00	0.35	7.67	0.22	6.69	0.60	10.5
25/11/19: 10:50:00 - 11:00:00	0.41	7.96	0.26	7.26	0.62	10.5
25/11/19: 11:00:00 - 11:10:00	0.35	7.56	0.23	6.40	0.45	10.5
25/11/19: 11:10:00 - 11:20:00	0.33	7.59	0.21	6.86	0.55	10.5
25/11/19: 11:20:00 - 11:30:00	0.33	7.80	0.21	7.09	0.46	10.5
25/11/19: 11:30:00 - 11:40:00	0.26	7.55	0.17	7.11	0.38	12
25/11/19: 11:40:00 - 11:50:00	0.28	7.68	0.18	6.22	0.40	10.5
25/11/19: 11:50:00 - 12:00:00	0.29	7.48	0.20	6.85	0.44	10.5
25/11/19: 12:00:00 - 12:10:00	0.29	7.18	0.19	6.40	0.49	12
25/11/19: 12:10:00 - 12:20:00	0.35	7.73	0.22	7.10	0.50	13
25/11/19: 12:20:00 - 12:30:00	0.29	7.37	0.18	6.43	0.53	11
25/11/19: 12:30:00 - 12:40:00	0.34	7.45	0.21	6.45	0.57	11
25/11/19: 12:40:00 - 12:50:00	0.34	7.79	0.21	7.01	0.50	11.5
25/11/19: 12:50:00 - 13:00:00	0.33	7.66	0.21	6.75	0.51	10.5
25/11/19: 13:00:00 - 13:10:00	0.33	7.12	0.20	6.62	0.49	11.5
25/11/19: 13:10:00 - 13:20:00	0.28	7.59	0.19	6.71	0.42	11.5
25/11/19: 13:20:00 - 13:30:00	0.32	7.80	0.21	6.86	0.46	11
25/11/19: 13:30:00 - 13:40:00	0.27	7.60	0.17	6.55	0.47	12
25/11/19: 13:40:00 - 13:50:00	0.28	7.22	0.19	6.56	0.47	10.5
25/11/19: 13:50:00 - 14:00:00	0.31	7.23	0.19	6.29	0.45	11.5
25/11/19: 14:00:00 - 14:10:00	0.33	7.47	0.22	6.60	0.52	11
25/11/19: 14:10:00 - 14:20:00	0.31	6.43	0.19	5.83	0.45	11
25/11/19: 14:20:00 - 14:30:00	0.29	7.45	0.18	6.16	0.49	11
25/11/19: 14:30:00 - 14:40:00	0.28	6.83	0.18	6.03	0.40	10.5
25/11/19: 14:40:00 - 14:50:00	0.28	6.35	0.17	5.80	0.46	11
25/11/19: 14:50:00 - 15:00:00	0.29	6.12	0.20	5.82	0.39	10.5
25/11/19: 15:00:00 - 15:10:00	0.29	6.53	0.18	5.84	0.44	12.5
25/11/19: 15:10:00 - 15:20:00	0.23	6.39	0.14	5.38	0.34	11.5
25/11/19: 15:20:00 - 15:30:00	0.22	6.26	0.14	5.50	0.32	12
25/11/19: 15:30:00 - 15:40:00	0.25	6.33	0.16	5.58	0.36	12
25/11/19: 15:40:00 - 15:50:00	0.26	6.82	0.16	5.52	0.38	10.5
25/11/19: 15:50:00 - 16:00:00	0.26	6.39	0.16	5.62	0.38	12
25/11/19: 16:00:00 - 16:10:00	0.24	6.42	0.15	5.36	0.41	11.5
25/11/19: 16:10:00 - 16:20:00	0.24	6.07	0.15	5.60	0.42	11.5
25/11/19: 16:20:00 - 16:30:00	0.26	5.88	0.16	5.36	0.37	12
25/11/19: 16:30:00 - 16:40:00	0.25	6.33	0.16	5.47	0.35	9.5
25/11/19: 16:40:00 - 16:50:00	0.25	6.17	0.16	5.54	0.41	9.5
25/11/19: 16:50:00 - 17:00:00	0.27	5.49	0.18	5.36	0.44	10
25/11/19: 17:00:00 - 17:10:00	0.22	5.81	0.15	5.34	0.34	10.5
25/11/19: 17:10:00 - 17:20:00	0.23	6.39	0.14	5.37	0.32	9.5
25/11/19: 17:20:00 - 17:30:00	0.24	5.70	0.15	5.34	0.42	9.5
25/11/19: 17:30:00 - 17:40:00	0.21	5.85	0.13	5.44	0.30	10.5
25/11/19: 17:40:00 - 17:50:00	0.19	5.63	0.12	5.10	0.35	8.5
25/11/19: 17:50:00 - 18:00:00	0.20	5.83	0.12	5.18	0.33	9.5
25/11/19: 18:00:00 - 18:10:00	0.20	6.01	0.13	5.31	0.30	10
25/11/19: 18:10:00 - 18:20:00	0.19	5.92	0.11	5.15	0.28	10.5
25/11/19: 18:20:00 - 18:30:00	0.17	5.97	0.11	5.52	0.26	10
25/11/19: 18:30:00 - 18:40:00	0.16	6.34	0.10	5.29	0.24	9.5
25/11/19: 18:40:00 - 18:50:00	0.14	6.64	0.09	5.51	0.25	10.5
25/11/19: 18:50:00 - 19:00:00	0.15	7.23	0.09	5.66	0.23	11
25/11/19: 19:00:00 - 19:10:00	0.17	7.28	0.11	6.13	0.26	12
25/11/19: 19:10:00 - 19:20:00	0.14	6.78	0.09	5.74	0.18	12.5
25/11/19: 19:20:00 - 19:30:00	0.16	7.57	0.10	5.83	0.27	11.5
25/11/19: 19:30:00 - 19:40:00	0.17	7.47	0.11	6.40	0.24	12
25/11/19: 19:40:00 - 19:50:00	0.14	7.59	0.09	6.14	0.23	11
25/11/19: 19:50:00 - 20:00:00	0.17	7.80	0.11	6.58	0.26	15
25/11/19: 20:00:00 - 20:10:00	0.14	7.84	0.09	6.34	0.21	14

25/11/19: 20:10:00 - 20:20:00	0.19	8.05	0.12	6.88	0.27	14.5
25/11/19: 20:20:00 - 20:30:00	0.16	7.53	0.10	5.98	0.25	11.5
25/11/19: 20:30:00 - 20:40:00	0.17	8.02	0.11	6.83	0.29	13
25/11/19: 20:40:00 - 20:50:00	0.18	7.83	0.11	6.57	0.29	15
25/11/19: 20:50:00 - 21:00:00	0.24	8.16	0.13	6.73	0.38	12
25/11/19: 21:00:00 - 21:10:00	0.22	8.83	0.13	7.14	0.33	18
25/11/19: 21:10:00 - 21:20:00	0.22	10.37	0.13	7.60	0.34	16.5
25/11/19: 21:20:00 - 21:30:00	0.26	9.96	0.17	8.11	0.33	16
25/11/19: 21:30:00 - 21:40:00	0.23	8.82	0.15	7.69	0.31	16.5
25/11/19: 21:40:00 - 21:50:00	0.26	9.27	0.17	7.93	0.36	18
25/11/19: 21:50:00 - 22:00:00	0.28	9.91	0.17	8.52	0.46	19
25/11/19: 22:00:00 - 22:10:00	0.29	11.55	0.19	9.02	0.42	18.5
25/11/19: 22:10:00 - 22:20:00	0.27	10.77	0.15	8.25	0.51	15.5
25/11/19: 22:20:00 - 22:30:00	0.26	8.96	0.17	8.03	0.41	19
25/11/19: 22:30:00 - 22:40:00	0.33	10.63	0.20	8.44	0.44	18
25/11/19: 22:40:00 - 22:50:00	0.27	9.90	0.16	8.15	0.40	16.5
25/11/19: 22:50:00 - 23:00:00	0.24	10.87	0.15	8.54	0.34	20.5
25/11/19: 23:00:00 - 23:10:00	0.29	11.02	0.17	8.34	0.44	19.5
25/11/19: 23:10:00 - 23:20:00	0.27	11.00	0.17	9.05	0.36	18
25/11/19: 23:20:00 - 23:30:00	0.25	10.00	0.16	8.59	0.43	17
25/11/19: 23:30:00 - 23:40:00	0.22	12.17	0.13	8.41	0.36	19
25/11/19: 23:40:00 - 23:50:00	0.24	10.77	0.15	8.75	0.41	18.5
25/11/19: 23:50:00 - 00:00:00	0.24	9.98	0.16	8.35	0.30	15.5
26/11/19: 00:00:00 - 00:10:00	0.28	15.53	0.17	10.31	0.47	18
26/11/19: 00:10:00 - 00:20:00	0.17	11.32	0.10	7.73	0.21	18
26/11/19: 00:20:00 - 00:30:00	0.28	13.42	0.17	10.23	0.33	20
26/11/19: 00:30:00 - 00:40:00	0.27	12.28	0.17	9.62	0.34	24.5
26/11/19: 00:40:00 - 00:50:00	0.24	10.79	0.16	9.41	0.29	19
26/11/19: 00:50:00 - 01:00:00	0.23	12.52	0.14	9.02	0.28	20
26/11/19: 01:00:00 - 01:10:00	0.22	12.18	0.14	8.88	0.30	20
26/11/19: 01:10:00 - 01:20:00	0.23	10.46	0.14	8.07	0.34	16
26/11/19: 01:20:00 - 01:30:00	0.21	10.56	0.13	8.10	0.28	17.5
26/11/19: 01:30:00 - 01:40:00	0.26	13.18	0.16	9.61	0.35	19
26/11/19: 01:40:00 - 01:50:00	0.25	11.80	0.16	8.86	0.35	18
26/11/19: 01:50:00 - 02:00:00	0.21	11.00	0.13	7.85	0.34	17.5
26/11/19: 02:00:00 - 02:10:00	0.28	13.00	0.18	9.67	0.39	19
26/11/19: 02:10:00 - 02:20:00	0.30	11.88	0.18	9.19	0.39	17.5
26/11/19: 02:20:00 - 02:30:00	0.28	12.73	0.17	8.70	0.38	18
26/11/19: 02:30:00 - 02:40:00	0.29	12.95	0.19	9.80	0.47	20.5
26/11/19: 02:40:00 - 02:50:00	0.24	11.65	0.15	8.32	0.39	18.5
26/11/19: 02:50:00 - 03:00:00	0.25	12.14	0.16	8.83	0.37	18
26/11/19: 03:00:00 - 03:10:00	0.23	11.72	0.14	8.44	0.36	19
26/11/19: 03:10:00 - 03:20:00	0.24	13.09	0.14	8.60	0.50	18
26/11/19: 03:20:00 - 03:30:00	0.25	13.04	0.15	8.49	0.37	17
26/11/19: 03:30:00 - 03:40:00	0.22	11.15	0.13	8.07	0.32	16
26/11/19: 03:40:00 - 03:50:00	0.23	10.91	0.14	8.68	0.33	17
26/11/19: 03:50:00 - 04:00:00	0.27	11.71	0.16	9.38	0.39	20
26/11/19: 04:00:00 - 04:10:00	0.27	11.92	0.17	9.37	0.36	17.5
26/11/19: 04:10:00 - 04:20:00	0.21	12.67	0.13	8.44	0.28	16.5
26/11/19: 04:20:00 - 04:30:00	0.21	12.08	0.12	7.84	0.33	15
26/11/19: 04:30:00 - 04:40:00	0.20	10.72	0.12	8.24	0.34	16
26/11/19: 04:40:00 - 04:50:00	0.24	12.64	0.14	8.75	0.41	15.5
26/11/19: 04:50:00 - 05:00:00	0.19	10.52	0.11	7.87	0.25	14.5
26/11/19: 05:00:00 - 05:10:00	0.16	9.63	0.09	7.27	0.22	15.5
26/11/19: 05:10:00 - 05:20:00	0.18	10.13	0.11	7.99	0.27	15.5
26/11/19: 05:20:00 - 05:30:00	0.19	10.08	0.12	7.50	0.26	15
26/11/19: 05:30:00 - 05:40:00	0.20	9.80	0.12	7.14	0.26	15
26/11/19: 05:40:00 - 05:50:00	0.21	9.07	0.13	6.76	0.35	13
26/11/19: 05:50:00 - 06:00:00	0.17	9.96	0.11	7.05	0.25	14
26/11/19: 06:00:00 - 06:10:00	0.19	9.50	0.12	7.15	0.28	14.5
26/11/19: 06:10:00 - 06:20:00	0.18	8.91	0.11	6.68	0.29	13
26/11/19: 06:20:00 - 06:30:00	0.17	9.18	0.11	7.02	0.26	13.5
26/11/19: 06:30:00 - 06:40:00	0.16	8.82	0.10	6.38	0.24	14
26/11/19: 06:40:00 - 06:50:00	0.16	8.55	0.10	6.90	0.22	15.5
26/11/19: 06:50:00 - 07:00:00	0.17	9.87	0.10	7.10	0.25	14
26/11/19: 07:00:00 - 07:10:00	0.17	10.35	0.11	7.37	0.23	14
26/11/19: 07:10:00 - 07:20:00	0.16	9.38	0.10	6.74	0.21	14
26/11/19: 07:20:00 - 07:30:00	0.14	8.41	0.09	6.67	0.26	13
26/11/19: 07:30:00 - 07:40:00	0.17	8.50	0.10	6.14	0.28	12.5
26/11/19: 07:40:00 - 07:50:00	0.18	8.52	0.11	5.99	0.33	12.5

26/11/19: 07:50:00 - 08:00:00	0.18	8.32	0.11	6.34	0.24	11.5
26/11/19: 08:00:00 - 08:10:00	0.17	6.84	0.11	5.64	0.29	11
26/11/19: 08:10:00 - 08:20:00	0.19	7.09	0.12	5.87	0.31	15
26/11/19: 08:20:00 - 08:30:00	0.21	7.34	0.13	5.92	0.34	16
26/11/19: 08:30:00 - 08:40:00	0.25	7.28	0.15	5.82	0.36	12.5
26/11/19: 08:40:00 - 08:50:00	0.23	6.39	0.15	5.60	0.36	13.5
26/11/19: 08:50:00 - 09:00:00	0.25	5.82	0.17	5.40	0.46	13.5
26/11/19: 09:00:00 - 09:10:00	0.29	6.31	0.19	5.71	0.43	12
26/11/19: 09:10:00 - 09:20:00	0.34	6.15	0.22	5.77	0.58	10.5
26/11/19: 09:20:00 - 09:30:00	0.32	6.26	0.22	5.76	0.48	13
26/11/19: 09:30:00 - 09:40:00	0.38	5.90	0.25	5.73	0.56	10.5
26/11/19: 09:40:00 - 09:50:00	0.39	6.93	0.25	5.89	0.61	11.5
26/11/19: 09:50:00 - 10:00:00	0.42	6.15	0.27	5.89	0.64	11
26/11/19: 10:00:00 - 10:10:00	0.37	6.17	0.25	6.22	0.61	11.5
26/11/19: 10:10:00 - 10:20:00	0.46	6.19	0.31	6.08	0.69	14.5
26/11/19: 10:20:00 - 10:30:00	0.53	6.38	0.33	5.92	0.85	11
26/11/19: 10:30:00 - 10:40:00	0.43	6.47	0.29	6.35	0.63	13
26/11/19: 10:40:00 - 10:50:00	0.48	6.24	0.34	6.29	0.87	12.5
26/11/19: 10:50:00 - 11:00:00	0.57	6.72	0.34	6.09	0.83	14.5
26/11/19: 11:00:00 - 11:10:00	0.56	6.42	0.35	6.23	0.81	11
26/11/19: 11:10:00 - 11:20:00	0.52	6.55	0.33	6.67	0.73	14.5
26/11/19: 11:20:00 - 11:30:00	0.50	6.40	0.32	6.35	0.91	12.5
26/11/19: 11:30:00 - 11:40:00	0.55	6.61	0.36	6.31	0.79	13
26/11/19: 11:40:00 - 11:50:00	0.52	6.55	0.35	6.57	0.83	11.5
26/11/19: 11:50:00 - 12:00:00	0.52	6.84	0.32	6.20	1.05	12
26/11/19: 12:00:00 - 12:10:00	0.47	6.58	0.30	6.29	0.64	10
26/11/19: 12:10:00 - 12:20:00	0.58	6.83	0.39	6.61	0.80	10
26/11/19: 12:20:00 - 12:30:00	0.62	7.00	0.39	6.88	0.88	10.5
26/11/19: 12:30:00 - 12:40:00	0.60	6.83	0.36	6.59	1.01	11.5
26/11/19: 12:40:00 - 12:50:00	0.62	6.19	0.41	6.73	1.01	9.5
26/11/19: 12:50:00 - 13:00:00	0.64	7.25	0.41	6.95	1.26	13.5
26/11/19: 13:00:00 - 13:10:00	0.70	7.02	0.42	6.71	1.20	11.5
26/11/19: 13:10:00 - 13:20:00	0.61	6.97	0.39	6.61	0.95	14
26/11/19: 13:20:00 - 13:30:00	0.63	6.85	0.40	6.63	0.89	10.5
26/11/19: 13:30:00 - 13:40:00	0.59	7.07	0.36	6.70	0.94	11.5
26/11/19: 13:40:00 - 13:50:00	0.59	6.84	0.39	6.39	0.87	11
26/11/19: 13:50:00 - 14:00:00	0.63	6.63	0.39	6.53	0.81	11
26/11/19: 14:00:00 - 14:10:00	0.60	6.60	0.39	6.66	1.07	12
26/11/19: 14:10:00 - 14:20:00	0.59	7.05	0.39	6.77	0.85	15
26/11/19: 14:20:00 - 14:30:00	0.63	7.07	0.39	6.67	0.99	12.5
26/11/19: 14:30:00 - 14:40:00	0.66	7.03	0.44	6.78	1.06	12.5
26/11/19: 14:40:00 - 14:50:00	0.66	6.64	0.43	7.01	1.35	11
26/11/19: 14:50:00 - 15:00:00	0.55	6.97	0.34	6.36	0.75	10
26/11/19: 15:00:00 - 15:10:00	0.60	7.10	0.39	6.78	0.80	12.5
26/11/19: 15:10:00 - 15:20:00	0.62	7.02	0.38	6.63	0.99	11
26/11/19: 15:20:00 - 15:30:00	0.63	7.11	0.40	6.97	0.91	11.5
26/11/19: 15:30:00 - 15:40:00	0.67	7.46	0.43	7.14	1.08	12.5
26/11/19: 15:40:00 - 15:50:00	0.67	7.52	0.44	6.99	0.95	10.5
26/11/19: 15:50:00 - 16:00:00	0.71	7.63	0.46	7.02	1.12	11.5
26/11/19: 16:00:00 - 16:10:00	0.68	7.61	0.43	7.01	1.00	11
26/11/19: 16:10:00 - 16:20:00	0.78	7.73	0.49	7.36	1.20	12.5
26/11/19: 16:20:00 - 16:30:00	0.79	7.85	0.50	7.35	1.46	11
26/11/19: 16:30:00 - 16:40:00	0.69	7.73	0.43	7.06	1.15	13
26/11/19: 16:40:00 - 16:50:00	0.74	7.88	0.48	7.40	1.03	12.5
26/11/19: 16:50:00 - 17:00:00	0.54	7.40	0.34	6.69	0.81	11
26/11/19: 17:00:00 - 17:10:00	0.72	7.69	0.46	7.14	1.16	12
26/11/19: 17:10:00 - 17:20:00	0.56	8.27	0.36	6.93	0.68	11.5
26/11/19: 17:20:00 - 17:30:00	0.58	7.85	0.39	7.34	0.74	11
26/11/19: 17:30:00 - 17:40:00	0.67	8.15	0.42	7.34	0.94	11.5
26/11/19: 17:40:00 - 17:50:00	0.63	7.36	0.40	6.78	1.03	12
26/11/19: 17:50:00 - 18:00:00	0.53	7.72	0.36	7.26	0.80	11
26/11/19: 18:00:00 - 18:10:00	0.55	7.74	0.35	7.07	1.11	11
26/11/19: 18:10:00 - 18:20:00	0.65	8.34	0.38	6.97	0.87	11.5
26/11/19: 18:20:00 - 18:30:00	0.59	8.70	0.38	7.18	0.95	11.5
26/11/19: 18:30:00 - 18:40:00	0.56	8.44	0.35	7.43	0.88	13.5
26/11/19: 18:40:00 - 18:50:00	0.59	8.13	0.38	7.13	0.86	12
26/11/19: 18:50:00 - 19:00:00	0.72	8.96	0.49	8.30	1.07	13.5
26/11/19: 19:00:00 - 19:10:00	0.62	8.66	0.43	7.87	1.29	12.5
26/11/19: 19:10:00 - 19:20:00	0.69	8.80	0.46	8.28	1.00	14
26/11/19: 19:20:00 - 19:30:00	0.56	9.42	0.35	7.48	0.79	14.5

26/11/19: 19:30:00 - 19:40:00	0.67	9.46	0.43	8.30	0.95	14
26/11/19: 19:40:00 - 19:50:00	0.59	9.54	0.39	8.52	0.85	14.5
26/11/19: 19:50:00 - 20:00:00	0.61	9.50	0.37	7.49	0.85	13.5
26/11/19: 20:00:00 - 20:10:00	0.65	9.14	0.42	8.65	1.16	14.5
26/11/19: 20:10:00 - 20:20:00	0.58	9.81	0.36	8.07	0.95	13.5
26/11/19: 20:20:00 - 20:30:00	0.66	10.05	0.42	9.41	1.04	15
26/11/19: 20:30:00 - 20:40:00	0.55	9.89	0.35	8.32	0.81	14.5
26/11/19: 20:40:00 - 20:50:00	0.63	9.95	0.41	8.82	0.87	16.5
26/11/19: 20:50:00 - 21:00:00	0.67	9.48	0.43	8.70	1.13	15.5
26/11/19: 21:00:00 - 21:10:00	0.64	9.93	0.41	8.74	0.94	15
26/11/19: 21:10:00 - 21:20:00	0.67	9.10	0.39	7.93	1.11	15.5
26/11/19: 21:20:00 - 21:30:00	0.58	10.00	0.37	8.45	0.75	14
26/11/19: 21:30:00 - 21:40:00	0.66	11.33	0.44	9.49	0.90	16.5
26/11/19: 21:40:00 - 21:50:00	0.58	10.10	0.36	8.30	0.83	16.5
26/11/19: 21:50:00 - 22:00:00	0.60	9.89	0.40	8.68	0.96	15.5
26/11/19: 22:00:00 - 22:10:00	0.62	10.07	0.39	9.15	1.03	16
26/11/19: 22:10:00 - 22:20:00	0.79	11.17	0.49	9.42	1.36	17
26/11/19: 22:20:00 - 22:30:00	0.65	9.50	0.42	8.86	1.04	14
26/11/19: 22:30:00 - 22:40:00	0.68	10.76	0.45	8.98	0.99	17
26/11/19: 22:40:00 - 22:50:00	0.66	10.11	0.41	8.56	0.95	18.5
26/11/19: 22:50:00 - 23:00:00	0.61	10.80	0.38	8.39	1.07	14.5
26/11/19: 23:00:00 - 23:10:00	0.67	10.16	0.43	8.81	1.14	16.5
26/11/19: 23:10:00 - 23:20:00	0.67	10.04	0.40	8.44	1.32	16.5
26/11/19: 23:20:00 - 23:30:00	0.57	10.00	0.35	8.52	0.82	16.5
26/11/19: 23:30:00 - 23:40:00	0.70	11.38	0.43	9.35	1.04	16
26/11/19: 23:40:00 - 23:50:00	0.59	10.31	0.36	9.27	0.87	17.5
26/11/19: 23:50:00 - 00:00:00	0.59	11.43	0.36	9.60	1.06	16
27/11/19: 00:00:00 - 00:10:00	0.61	10.24	0.39	9.14	0.76	16.5
27/11/19: 00:10:00 - 00:20:00	0.65	10.85	0.44	9.46	0.79	15
27/11/19: 00:20:00 - 00:30:00	0.57	9.67	0.38	8.26	0.72	15.5
27/11/19: 00:30:00 - 00:40:00	0.58	10.11	0.37	8.47	0.83	16
27/11/19: 00:40:00 - 00:50:00	0.59	9.64	0.37	7.84	0.84	18.5
27/11/19: 00:50:00 - 01:00:00	0.59	9.54	0.37	8.35	0.88	15.5
27/11/19: 01:00:00 - 01:10:00	0.72	10.98	0.48	9.22	0.89	17.5
27/11/19: 01:10:00 - 01:20:00	0.58	10.83	0.40	9.84	0.81	17.5
27/11/19: 01:20:00 - 01:30:00	0.51	10.33	0.35	9.11	0.66	17
27/11/19: 01:30:00 - 01:40:00	0.53	8.94	0.34	7.69	0.79	17.5
27/11/19: 01:40:00 - 01:50:00	0.54	9.40	0.36	8.23	0.76	14
27/11/19: 01:50:00 - 02:00:00	0.56	9.96	0.34	7.76	0.89	16
27/11/19: 02:00:00 - 02:10:00	0.49	10.10	0.30	7.92	0.74	16
27/11/19: 02:10:00 - 02:20:00	0.56	10.26	0.36	8.38	0.80	15
27/11/19: 02:20:00 - 02:30:00	0.52	8.67	0.32	7.22	1.13	13
27/11/19: 02:30:00 - 02:40:00	0.51	8.96	0.34	7.64	0.68	14.5
27/11/19: 02:40:00 - 02:50:00	0.53	9.48	0.34	7.36	0.71	16
27/11/19: 02:50:00 - 03:00:00	0.51	10.18	0.35	7.88	0.95	16
27/11/19: 03:00:00 - 03:10:00	0.53	9.37	0.36	8.25	0.64	18
27/11/19: 03:10:00 - 03:20:00	0.52	10.17	0.34	8.32	0.64	20.5
27/11/19: 03:20:00 - 03:30:00	0.56	9.17	0.36	7.40	0.89	15.5
27/11/19: 03:30:00 - 03:40:00	0.58	10.02	0.40	8.34	0.76	15.5
27/11/19: 03:40:00 - 03:50:00	0.49	9.52	0.34	7.90	0.66	14
27/11/19: 03:50:00 - 04:00:00	0.48	9.67	0.30	7.58	0.66	14
27/11/19: 04:00:00 - 04:10:00	0.45	9.48	0.30	8.09	0.58	17
27/11/19: 04:10:00 - 04:20:00	0.47	9.90	0.30	7.43	0.62	13.5
27/11/19: 04:20:00 - 04:30:00	0.43	9.44	0.29	8.03	0.66	17.5
27/11/19: 04:30:00 - 04:40:00	0.41	10.86	0.26	7.84	0.64	15.5
27/11/19: 04:40:00 - 04:50:00	0.39	9.39	0.24	7.11	0.56	12



Tidal Currents						
Site:		Howth				
Project number:		PH19030				
Date:		03/12/2019				
Instrument:		Valeport 106				
Date	Time [GMT]	Tide [ODM]	Station	Depth (m)	Speed (m/s)	Direction (mag)
03/12/2019	06:19:25	0.21	1	1.0	0.000	290.5
03/12/2019	06:20:45	0.13	1	2.0	0.000	296.7
03/12/2019	06:21:45	0.13	1	3.0	0.000	336.4
03/12/2019	06:33:54	0.06	2	1.0	0.023	65.5
03/12/2019	06:34:54	0.06	2	2.0	0.022	61.7
03/12/2019	06:37:14	0.01	2	3.0	0.043	93.2
03/12/2019	06:38:54	0.01	2	4.0	0.047	84.9
03/12/2019	06:39:54	0.01	2	4.5	0.024	72.1
03/12/2019	06:50:34	-0.13	3	1.0	0.269	123.2
03/12/2019	06:52:14	-0.13	3	2.0	0.260	102.2
03/12/2019	06:53:34	-0.13	3	3.0	0.344	111.9
03/12/2019	06:55:14	-0.18	3	4.0	0.353	98.2
03/12/2019	06:56:54	-0.18	3	5.0	0.316	106.6
03/12/2019	06:57:54	-0.18	3	6.0	0.395	97.7
03/12/2019	06:59:14	-0.18	3	7.0	0.341	93.2
03/12/2019	07:00:34	-0.23	3	8.0	0.313	92.0
03/12/2019	07:02:14	-0.23	3	9.0	0.329	91.6
03/12/2019	07:03:14	-0.23	3	10.0	0.315	92.3
03/12/2019	07:04:14	-0.23	3	11.0	0.315	111.8
03/12/2019	07:04:54	-0.25	3	13.0	0.349	89.6
03/12/2019	07:17:14	-0.36	1	1.0	0.005	208.2
03/12/2019	07:18:34	-0.36	1	2.0	0.000	185.1
03/12/2019	07:20:14	-0.40	1	3.0	0.005	282.9
03/12/2019	07:21:14	-0.40	1	4.0	0.006	261.4
03/12/2019	07:45:14	-0.63	2	1.0	0.006	331.1
03/12/2019	07:46:54	-0.63	2	2.0	0.072	260.0
03/12/2019	07:48:14	-0.63	2	3.0	0.000	217.3
03/12/2019	07:49:34	-0.63	2	4.0	0.007	202.0
03/12/2019	08:02:54	-0.75	3	1.0	0.150	335.1
03/12/2019	08:04:14	-0.75	3	2.0	0.153	353.3
03/12/2019	08:05:14	-0.75	3	3.0	0.139	4.7
03/12/2019	08:06:14	-0.75	3	4.0	0.122	15.9
03/12/2019	08:07:14	-0.75	3	5.0	0.106	5.8
03/12/2019	08:08:14	-0.75	3	6.0	0.106	21.4
03/12/2019	08:09:14	-0.75	3	7.0	0.115	20.8
03/12/2019	08:10:14	-0.80	3	8.0	0.093	2.7
03/12/2019	08:11:14	-0.80	3	9.0	0.097	25.3
03/12/2019	08:12:14	-0.80	3	10.0	0.109	14.0
03/12/2019	08:13:14	-0.80	3	11.0	0.110	6.2
03/12/2019	08:14:14	-0.80	3	12.0	0.105	38.9
03/12/2019	08:15:14	-0.87	3	13.0	0.108	9.7
03/12/2019	08:16:14	-0.87	3	14.0	0.114	14.9
03/12/2019	08:28:34	-0.89	1	1.0	0.000	36.1
03/12/2019	08:29:34	-0.89	1	2.0	0.007	20.9
03/12/2019	08:30:34	-0.96	1	3.0	0.009	328.4
03/12/2019	08:43:34	-0.97	2	1.0	0.050	267.2
03/12/2019	08:44:34	-0.97	2	2.0	0.078	254.8
03/12/2019	08:45:34	-1.04	2	3.0	0.000	125.0
03/12/2019	08:53:34	-1.06	3	1.0	0.347	301.3
03/12/2019	08:54:34	-1.06	3	2.0	0.223	323.3
03/12/2019	08:55:34	-1.05	3	3.0	0.233	348.1
03/12/2019	08:56:34	-1.05	3	4.0	0.235	328.5
03/12/2019	08:57:34	-1.05	3	5.0	0.237	326.9
03/12/2019	08:58:34	-1.05	3	6.0	0.227	326.3
03/12/2019	08:59:34	-1.05	3	7.0	0.210	327.6
03/12/2019	09:00:34	-1.07	3	8.0	0.203	313.4
03/12/2019	09:01:34	-1.07	3	9.0	0.184	317.6
03/12/2019	09:02:34	-1.07	3	10.0	0.187	308.6
03/12/2019	09:03:34	-1.07	3	11.0	0.148	318.9
03/12/2019	09:04:34	-1.07	3	12.0	0.154	300.4
03/12/2019	09:05:34	-1.12	3	13.0	0.154	318.8
03/12/2019	09:21:54	-1.14	1	1.0	0.000	309.7
03/12/2019	09:22:54	-1.14	1	2.0	0.006	303.7

03/12/2019	09:23:54	-1.14	1	2.5	0.000	304.5
03/12/2019	09:34:40	-1.14	2	1.0	0.009	309.5
03/12/2019	09:35:40	-1.12	2	2.0	0.005	292.4
03/12/2019	09:36:40	-1.12	2	3.0	0.017	268.4
03/12/2019	09:37:40	-1.12	2	3.5	0.000	228.4
03/12/2019	09:45:20	-1.12	3	1.0	0.190	294.8
03/12/2019	09:48:20	-1.12	3	2.0	0.253	329.2
03/12/2019	09:49:20	-1.12	3	3.0	0.273	323.3
03/12/2019	09:50:20	-1.11	3	4.0	0.299	317.3
03/12/2019	09:51:20	-1.11	3	5.0	0.295	311.7
03/12/2019	09:52:20	-1.11	3	6.0	0.304	322.0
03/12/2019	09:53:20	-1.11	3	7.0	0.292	310.4
03/12/2019	09:54:20	-1.11	3	8.0	0.293	314.2
03/12/2019	09:55:20	-1.12	3	9.0	0.241	318.5
03/12/2019	09:56:20	-1.12	3	10.0	0.247	306.3
03/12/2019	09:57:20	-1.12	3	11.0	0.233	324.7
03/12/2019	09:58:20	-1.12	3	12.0	0.212	317.0
03/12/2019	09:59:20	-1.12	3	13.0	0.247	316.6
03/12/2019	10:11:20	-1.08	1	1.0	0.009	99.7
03/12/2019	10:12:20	-1.08	1	2.0	0.020	110.9
03/12/2019	10:13:20	-1.08	1	2.5	0.019	128.6
03/12/2019	10:19:40	-1.08	2	1.0	0.080	71.9
03/12/2019	10:20:40	-1.05	2	2.0	0.040	93.1
03/12/2019	10:21:40	-1.05	2	3.0	0.010	91.1
03/12/2019	10:33:11	-1.01	3	1.0	0.395	284.9
03/12/2019	10:34:11	-1.01	3	2.0	0.291	305.5
03/12/2019	10:35:11	-0.99	3	3.0	0.283	327.6
03/12/2019	10:37:11	-0.99	3	4.0	0.309	301.1
03/12/2019	10:38:11	-0.99	3	5.0	0.293	315.0
03/12/2019	10:39:11	-0.99	3	6.0	0.261	307.9
03/12/2019	10:40:11	-0.98	3	7.0	0.280	300.8
03/12/2019	10:41:11	-0.98	3	8.0	0.275	301.5
03/12/2019	10:42:11	-0.98	3	9.0	0.276	301.9
03/12/2019	10:43:31	-0.98	3	10.0	0.185	282.4
03/12/2019	10:44:31	-0.98	3	11.0	0.219	287.3
03/12/2019	10:45:31	-0.93	3	12.0	0.116	256.9
03/12/2019	10:56:31	-0.90	1	1.0	0.000	95.1
03/12/2019	10:57:31	-0.90	1	2.0	0.000	96.8
03/12/2019	10:58:31	-0.90	1	2.5	0.042	105.4
03/12/2019	11:03:14	-0.84	2	1.0	0.075	96.2
03/12/2019	11:04:34	-0.84	2	2.0	0.009	69.0
03/12/2019	11:05:14	-0.82	2	3.0	0.008	63.6
03/12/2019	11:06:14	-0.82	2	3.5	0.009	69.0
03/12/2019	11:13:54	-0.81	3	1.0	0.316	306.4
03/12/2019	11:14:54	-0.81	3	2.0	0.395	257.1
03/12/2019	11:18:17	-0.75	3	3.0	0.315	288.4
03/12/2019	11:19:37	-0.75	3	4.0	0.266	294.0
03/12/2019	11:20:17	-0.69	3	5.0	0.242	299.5
03/12/2019	11:21:17	-0.69	3	6.0	0.310	281.2
03/12/2019	11:22:17	-0.69	3	7.0	0.281	302.5
03/12/2019	11:23:17	-0.69	3	8.0	0.324	280.6
03/12/2019	11:24:17	-0.69	3	9.0	0.288	293.5
03/12/2019	11:25:17	-0.68	3	10.0	0.253	297.1
03/12/2019	11:26:17	-0.68	3	11.0	0.266	288.1
03/12/2019	11:27:17	-0.68	3	12.0	0.253	286.0
03/12/2019	11:28:17	-0.68	3	13.0	0.215	295.8
03/12/2019	11:43:57	-0.58	1	1.0	0.162	155.7
03/12/2019	11:44:57	-0.58	1	2.0	0.090	184.1
03/12/2019	11:46:37	-0.50	1	2.5	0.084	160.1
03/12/2019	11:53:57	-0.48	2	1.0	0.105	41.9
03/12/2019	11:54:57	-0.48	2	2.0	0.107	23.9
03/12/2019	11:55:57	-0.42	2	3.0	0.174	53.5
03/12/2019	11:56:57	-0.42	2	4.0	0.105	55.8
03/12/2019	12:07:17	-0.37	3	1.0	0.310	278.8
03/12/2019	12:08:17	-0.37	3	2.0	0.198	296.5
03/12/2019	12:09:17	-0.37	3	3.0	0.262	282.3
03/12/2019	12:10:17	-0.31	3	4.0	0.244	289.9
03/12/2019	12:11:17	-0.31	3	5.0	0.236	281.3
03/12/2019	12:12:17	-0.31	3	6.0	0.235	283.0
03/12/2019	12:13:17	-0.31	3	7.0	0.215	278.1

03/12/2019	12:14:17	-0.31	3	8.0	0.213	272.9
03/12/2019	12:15:17	-0.29	3	9.0	0.180	269.4
03/12/2019	12:16:17	-0.29	3	10.0	0.152	261.9
03/12/2019	12:17:17	-0.29	3	11.0	0.180	261.9
03/12/2019	12:18:17	-0.29	3	12.0	0.161	268.6
03/12/2019	12:19:17	-0.29	3	13.0	0.180	253.2
03/12/2019	13:13:35	0.18	1	1.0	0.105	146.7
03/12/2019	13:14:15	0.18	1	2.0	0.172	158.3
03/12/2019	13:14:55	0.18	1	3.0	0.199	160.3
03/12/2019	13:21:45	0.26	2	1.0	0.116	30.4
03/12/2019	13:22:45	0.26	2	2.0	0.112	98.8
03/12/2019	13:24:05	0.26	2	3.0	0.099	65.0
03/12/2019	13:25:05	0.33	2	4.0	0.111	61.9
03/12/2019	13:26:05	0.33	2	5.0	0.069	63.2
03/12/2019	13:35:25	0.38	3	1.0	0.068	119.1
03/12/2019	13:36:25	0.38	3	2.0	0.097	181.1
03/12/2019	13:37:25	0.38	3	3.0	0.171	198.1
03/12/2019	13:38:25	0.38	3	4.0	0.203	231.5
03/12/2019	13:39:25	0.38	3	5.0	0.187	225.4
03/12/2019	13:40:25	0.45	3	6.0	0.284	244.5
03/12/2019	13:49:44	0.47	3	7.0	0.137	233.9
03/12/2019	13:50:44	0.52	3	8.0	0.118	242.3
03/12/2019	13:51:44	0.52	3	9.0	0.133	213.7
03/12/2019	13:52:44	0.52	3	10.0	0.091	229.3
03/12/2019	13:53:44	0.52	3	11.0	0.083	225.8
03/12/2019	13:54:44	0.52	3	12.0	0.082	184.7
03/12/2019	13:55:44	0.54	3	13.0	0.083	210.5
03/12/2019	13:56:44	0.54	3	14.0	0.000	181.8
03/12/2019	14:06:04	0.62	1	1.0	0.000	209.1
03/12/2019	14:07:04	0.62	1	2.0	0.009	139.7
03/12/2019	14:08:04	0.62	1	3.0	0.000	102.3
03/12/2019	14:09:04	0.62	1	4.0	0.086	165.9
03/12/2019	14:10:04	0.64	1	5.0	0.000	125.0
03/12/2019	14:16:41	0.71	2	1.0	0.076	77.0
03/12/2019	14:17:41	0.71	2	2.0	0.195	65.2
03/12/2019	14:18:41	0.71	2	3.0	0.195	65.3
03/12/2019	14:21:41	0.71	2	4.0	0.202	56.4
03/12/2019	14:22:41	0.71	2	5.0	0.168	57.2
03/12/2019	14:23:41	0.71	2	6.0	0.000	325.9
03/12/2019	14:31:21	0.78	3	1.0	0.076	148.9
03/12/2019	14:32:21	0.78	3	2.0	0.035	163.0
03/12/2019	14:33:21	0.78	3	3.0	0.124	163.5
03/12/2019	14:34:21	0.78	3	4.0	0.112	167.5
03/12/2019	14:35:21	0.83	3	5.0	0.115	188.3
03/12/2019	14:36:21	0.83	3	6.0	0.111	168.4
03/12/2019	14:37:21	0.83	3	7.0	0.178	169.7
03/12/2019	14:38:21	0.83	3	8.0	0.141	160.2
03/12/2019	14:39:21	0.83	3	9.0	0.179	159.3
03/12/2019	14:40:21	0.85	3	10.0	0.117	172.9
03/12/2019	14:41:21	0.85	3	11.0	0.142	169.7
03/12/2019	14:42:21	0.85	3	12.0	0.117	172.0
03/12/2019	14:43:21	0.85	3	13.0	0.144	167.7
03/12/2019	14:44:21	0.85	3	14.0	0.131	159.3
03/12/2019	14:45:21	0.88	3	15.0	0.172	152.9
03/12/2019	14:53:41	0.91	1	1.0	0.023	203.9
03/12/2019	14:54:41	0.91	1	2.0	0.018	193.1
03/12/2019	14:55:41	0.93	1	3.0	0.000	186.8
03/12/2019	14:56:41	0.93	1	4.0	0.000	148.6
03/12/2019	14:57:41	0.93	1	5.0	0.000	116.0
03/12/2019	15:04:36	0.96	2	1.0	0.197	63.4
03/12/2019	15:05:36	1.01	2	2.0	0.271	52.0
03/12/2019	15:06:36	1.01	2	3.0	0.234	70.0
03/12/2019	15:07:36	1.01	2	4.0	0.219	66.7
03/12/2019	15:08:36	1.01	2	5.0	0.203	64.7
03/12/2019	15:09:36	1.01	2	6.0	0.127	73.3
03/12/2019	15:19:00	1.03	3	1.0	0.244	112.4
03/12/2019	15:20:00	1.04	3	2.0	0.483	100.7
03/12/2019	15:21:00	1.04	3	3.0	0.360	131.7
03/12/2019	15:22:00	1.04	3	4.0	0.385	138.8
03/12/2019	15:23:00	1.04	3	5.0	0.376	140.4

03/12/2019	15:24:00	1.04	3	6.0	0.385	137.4
03/12/2019	15:25:00	1.08	3	7.0	0.397	139.2
03/12/2019	15:26:00	1.08	3	8.0	0.333	138.7
03/12/2019	15:27:00	1.08	3	9.0	0.365	131.7
03/12/2019	15:28:00	1.08	3	10.0	0.363	136.7
03/12/2019	15:29:00	1.08	3	11.0	0.374	133.8
03/12/2019	15:30:00	1.09	3	12.0	0.319	142.4
03/12/2019	15:31:00	1.09	3	13.0	0.292	138.0
03/12/2019	15:32:00	1.09	3	14.0	0.351	141.4
03/12/2019	15:33:00	1.09	3	15.0	0.234	139.6
03/12/2019	15:43:00	1.13	1	1.0	0.000	25.2
03/12/2019	15:44:00	1.13	1	2.0	0.006	42.0
03/12/2019	15:45:00	1.13	1	3.0	0.008	116.9
03/12/2019	15:46:00	1.13	1	4.0	0.008	131.3
03/12/2019	15:47:00	1.13	1	4.5	0.000	243.3
03/12/2019	15:53:59	1.16	2	1.0	0.127	63.5
03/12/2019	15:54:59	1.16	2	2.0	0.044	301.8
03/12/2019	15:55:59	1.16	2	3.0	0.247	61.5
03/12/2019	15:56:59	1.16	2	4.0	0.219	73.5
03/12/2019	15:57:59	1.16	2	5.0	0.215	72.7
03/12/2019	15:58:59	1.16	2	6.0	0.176	65.6
03/12/2019	16:06:59	1.17	3	1.0	0.499	120.6
03/12/2019	16:07:59	1.17	3	2.0	0.553	102.2
03/12/2019	16:08:59	1.17	3	3.0	0.481	140.3
03/12/2019	16:09:59	1.17	3	4.0	0.507	134.9
03/12/2019	16:10:59	1.18	3	5.0	0.481	143.8
03/12/2019	16:11:59	1.18	3	6.0	0.472	133.9
03/12/2019	16:12:59	1.18	3	7.0	0.405	136.1
03/12/2019	16:13:59	1.18	3	8.0	0.397	139.1
03/12/2019	16:14:59	1.18	3	9.0	0.465	137.9
03/12/2019	16:15:59	1.19	3	10.0	0.406	133.0
03/12/2019	16:16:59	1.19	3	11.0	0.477	144.2
03/12/2019	16:17:59	1.19	3	12.0	0.413	129.7
03/12/2019	16:18:59	1.19	3	13.0	0.403	134.3
03/12/2019	16:19:59	1.19	3	14.0	0.453	132.7
03/12/2019	16:20:59	1.19	3	15.0	0.427	132.1
03/12/2019	16:29:59	1.18	1	1.0	0.073	126.9
03/12/2019	16:30:59	1.18	1	2.0	0.161	86.9
03/12/2019	16:31:59	1.18	1	3.0	0.007	267.4
03/12/2019	16:32:59	1.18	1	4.0	0.142	280.4
03/12/2019	16:39:19	1.15	2	1.0	0.100	54.9
03/12/2019	16:40:19	1.16	2	2.0	0.162	76.2

03/12/2019	16:41:19	1.16	2	3.0	0.216	62.3
03/12/2019	16:42:19	1.16	2	4.0	0.235	60.9
03/12/2019	16:43:19	1.16	2	5.0	0.212	60.2
03/12/2019	16:44:19	1.16	2	6.0	0.164	56.6
03/12/2019	16:51:59	1.14	3	1.0	0.559	106.7
03/12/2019	16:52:59	1.14	3	2.0	0.419	143.1
03/12/2019	16:53:59	1.14	3	3.0	0.449	134.0
03/12/2019	16:54:59	1.14	3	4.0	0.375	146.9
03/12/2019	16:55:59	1.14	3	5.0	0.437	138.1
03/12/2019	16:56:59	1.14	3	6.0	0.420	134.9
03/12/2019	16:57:59	1.14	3	7.0	0.434	137.0
03/12/2019	16:58:59	1.14	3	8.0	0.451	137.2
03/12/2019	16:59:59	1.14	3	9.0	0.498	135.3
03/12/2019	17:01:59	1.14	3	10.0	0.436	132.2
03/12/2019	17:02:59	1.14	3	11.0	0.417	134.6
03/12/2019	17:03:59	1.14	3	12.0	0.374	138.1
03/12/2019	17:04:59	1.14	3	13.0	0.479	134.6
03/12/2019	17:05:59	1.09	3	14.0	0.480	132.0
03/12/2019	17:06:59	1.09	3	15.0	0.405	123.0
03/12/2019	17:15:39	1.08	1	1.0	0.110	108.8
03/12/2019	17:16:39	1.08	1	2.0	0.070	81.4
03/12/2019	17:17:39	1.08	1	3.0	0.000	43.7
03/12/2019	17:18:39	1.08	1	4.0	0.129	258.3
03/12/2019	17:24:39	1.05	2	1.0	0.197	24.1
03/12/2019	17:25:39	1.03	2	2.0	0.211	87.7
03/12/2019	17:26:39	1.03	2	3.0	0.214	68.4
03/12/2019	17:27:39	1.03	2	4.0	0.208	64.3
03/12/2019	17:28:39	1.03	2	5.0	0.196	68.4
03/12/2019	17:29:39	1.03	2	6.0	0.138	69.6
03/12/2019	17:40:19	0.94	3	1.0	0.512	126.2
03/12/2019	17:41:19	0.94	3	2.0	0.575	122.9
03/12/2019	17:42:19	0.94	3	3.0	0.531	128.3
03/12/2019	17:43:19	0.94	3	4.0	0.548	129.7
03/12/2019	17:44:19	0.94	3	5.0	0.584	131.2
03/12/2019	17:45:19	0.90	3	6.0	0.546	130.1
03/12/2019	17:46:19	0.90	3	7.0	0.558	121.1
03/12/2019	17:47:19	0.90	3	8.0	0.442	128.0
03/12/2019	17:48:19	0.90	3	9.0	0.547	129.0
03/12/2019	17:49:19	0.90	3	10.0	0.491	127.0
03/12/2019	17:50:19	0.85	3	11.0	0.542	122.1
03/12/2019	17:51:19	0.85	3	12.0	0.262	162.9
03/12/2019	17:52:19	0.85	3	13.0	0.234	183.7
03/12/2019	17:53:19	0.85	3	14.0	0.293	204.4
03/12/2019	17:54:19	0.85	3	15.0	0.259	210.7
03/12/2019	18:03:19	0.80	1	1.0	0.068	27.9
03/12/2019	18:04:19	0.80	1	2.0	0.196	278.2
03/12/2019	18:05:19	0.73	1	3.0	0.036	291.6
03/12/2019	18:06:19	0.73	1	4.0	0.000	193.9
03/12/2019	18:07:19	0.73	1	5.0	0.000	205.7
03/12/2019	18:13:39	0.72	2	1.0	0.166	1.7
03/12/2019	18:14:39	0.72	2	2.0	0.158	83.2
03/12/2019	18:15:39	0.64	2	3.0	0.181	75.5
03/12/2019	18:16:39	0.64	2	4.0	0.172	77.6
03/12/2019	18:17:39	0.64	2	5.0	0.113	58.2
03/12/2019	18:18:39	0.64	2	6.0	0.079	84.2
03/12/2019	18:25:19	0.57	1	1.0	0.217	307.9
03/12/2019	18:26:19	0.57	1	2.0	0.010	303.0

03/12/2019	18:27:19	0.57	1	3.0	0.056	308.1
03/12/2019	18:28:19	0.57	1	4.0	0.008	298.4
03/12/2019	18:29:19	0.57	1	5.0	0.133	285.8
03/12/2019	18:42:59	0.43	2	1.0	0.126	61.8
03/12/2019	18:43:59	0.43	2	2.0	0.113	44.1
03/12/2019	18:44:59	0.43	2	3.0	0.153	76.3
03/12/2019	18:45:59	0.37	2	4.0	0.127	72.2
03/12/2019	18:46:59	0.37	2	5.0	0.138	87.3
03/12/2019	18:47:59	0.37	2	6.0	0.000	66.6
03/12/2019	18:53:39	0.32	1	1.0	0.120	297.0
03/12/2019	18:54:39	0.32	1	2.0	0.050	329.4
03/12/2019	18:55:39	0.27	1	3.0	0.006	298.8
03/12/2019	18:56:39	0.27	1	4.0	0.007	267.7
03/12/2019	19:04:19	0.22	2	1.0	0.212	332.3
03/12/2019	19:05:19	0.18	2	2.0	0.123	71.9
03/12/2019	19:06:19	0.18	2	3.0	0.132	80.1
03/12/2019	19:07:19	0.18	2	4.0	0.081	83.0
03/12/2019	19:08:19	0.18	2	5.0	0.087	104.3
03/12/2019	19:15:19	0.08	1	1.0	0.114	68.7
03/12/2019	19:16:19	0.08	1	2.0	0.000	357.7
03/12/2019	19:17:19	0.08	1	3.0	0.154	281.5
03/12/2019	19:18:19	0.08	1	4.0	0.081	287.7
03/12/2019	19:26:59	-0.02	2	1.0	0.127	343.3
03/12/2019	19:27:59	-0.02	2	2.0	0.104	70.5
03/12/2019	19:28:59	-0.02	2	3.0	0.107	50.2
03/12/2019	19:29:59	-0.02	2	4.0	0.104	83.1
03/12/2019	19:30:59	-0.08	2	5.0	0.082	58.8
03/12/2019	19:37:19	-0.13	1	1.0	0.045	11.0
03/12/2019	19:38:19	-0.13	1	2.0	0.233	280.5
03/12/2019	19:39:19	-0.13	1	3.0	0.027	299.3
03/12/2019	19:40:19	-0.19	1	4.0	0.000	200.3
03/12/2019	19:50:39	-0.30	2	1.0	0.080	28.9
03/12/2019	19:51:39	-0.30	2	2.0	0.073	97.7
03/12/2019	19:52:39	-0.30	2	3.0	0.047	120.6
03/12/2019	19:53:39	-0.30	2	4.0	0.089	118.1
03/12/2019	19:54:39	-0.30	2	5.0	0.008	147.6
03/12/2019	20:00:59	-0.39	1	1.0	0.013	56.3
03/12/2019	20:01:59	-0.39	1	2.0	0.217	284.6
03/12/2019	20:02:59	-0.39	1	3.0	0.033	318.1
03/12/2019	20:03:59	-0.39	1	4.0	0.007	328.2
03/12/2019	20:13:39	-0.47	2	1.0	0.021	43.6
03/12/2019	20:14:39	-0.47	2	2.0	0.095	97.1
03/12/2019	20:15:39	-0.54	2	3.0	0.000	46.9
03/12/2019	20:16:39	-0.54	2	4.0	0.006	87.0

06-07-2021F 21A/0368
FINGAL CO CO PL DEPT

Site:	Howth					
Project number:	PH19030					
Date:	12/12/2019					
Instrument:	Valeport 106					
Date	Time (GMT)	Tide (ODM)	Station	Depth (m)	Speed (m/s)	Direction (mag)
12/12/2019	06:32:57	-1.03	1	1.0	0.080	110.9
12/12/2019	06:33:57	-1.03	1	1.5	0.056	121.4
12/12/2019	06:44:17	-0.92	2	1.0	0.023	27.9
12/12/2019	06:46:37	-0.86	2	2.0	0.021	197.7
12/12/2019	06:47:37	-0.86	2	3.0	0.008	118.6
12/12/2019	07:07:37	-0.60	3	1.0	0.358	279.2
12/12/2019	07:08:37	-0.60	3	2.0	0.356	278.2
12/12/2019	07:09:37	-0.60	3	3.0	0.299	290.3
12/12/2019	07:10:17	-0.57	3	4.0	0.290	270.5
12/12/2019	07:11:17	-0.57	3	5.0	0.310	284.8
12/12/2019	07:11:57	-0.57	3	6.0	0.333	276.3
12/12/2019	07:12:17	-0.57	3	7.0	0.270	280.2
12/12/2019	07:12:57	-0.57	3	8.0	0.253	270.6
12/12/2019	07:14:37	-0.57	3	9.0	0.236	256.6
12/12/2019	07:14:37	-0.57	3	10.0	0.215	261.2
12/12/2019	07:15:17	-0.47	3	11.0	0.260	265.1
12/12/2019	07:15:57	-0.47	3	12.0	0.183	264.5
12/12/2019	07:16:17	-0.47	3	13.0	0.194	250.9
12/12/2019	07:16:37	-0.47	3	14.0	0.206	249.8
12/12/2019	07:28:09	-0.38	1	1.0	0.209	173.8
12/12/2019	07:30:29	-0.29	1	1.5	0.123	211.4
12/12/2019	07:37:29	-0.26	2	1.0	0.123	65
12/12/2019	07:38:29	-0.26	2	2.0	0.073	57.9
12/12/2019	07:39:28	-0.26	2	3.0	0.010	26.8
12/12/2019	07:40:28	-0.19	2	4.0	0.019	271.1
12/12/2019	07:41:29	-0.19	2	4.5	0.086	133.4
12/12/2019	07:49:49	-0.12	3	1.0	0.363	259.9
12/12/2019	07:50:29	-0.06	3	2.0	0.281	268.4
12/12/2019	07:51:09	-0.06	3	3.0	0.254	264.9
12/12/2019	07:51:49	-0.06	3	4.0	0.202	261.4
12/12/2019	07:52:29	-0.06	3	5.0	0.204	253.7
12/12/2019	07:53:09	-0.06	3	6.0	0.244	266.5
12/12/2019	07:53:49	-0.06	3	7.0	0.249	257.5
12/12/2019	07:54:29	-0.06	3	8.0	0.287	252.2
12/12/2019	07:55:09	0.00	3	9.0	0.245	255
12/12/2019	07:55:49	0.00	3	10.0	0.250	251.3
12/12/2019	07:56:29	0.00	3	11.0	0.214	246.5
12/12/2019	07:57:09	0.00	3	12.0	0.200	230.7
12/12/2019	07:57:49	0.00	3	13.0	0.252	235.6
12/12/2019	07:58:29	0.00	3	14.0	0.209	234
12/12/2019	08:16:09	0.25	1	1.0	0.117	166.1
12/12/2019	08:17:09	0.25	1	2.0	0.131	170
12/12/2019	08:18:09	0.25	1	3.0	0.150	189.7
12/12/2019	08:19:09	0.25	1	3.5	0.146	115.8
12/12/2019	08:25:09	0.37	2	1.0	0.093	47.9
12/12/2019	08:26:09	0.37	2	2.0	0.048	320.6
12/12/2019	08:27:08	0.37	2	3.0	0.082	248.7
12/12/2019	08:28:08	0.37	2	4.0	0.006	243.1
12/12/2019	08:29:08	0.37	2	5.0	0.031	159.8
12/12/2019	08:37:09	0.48	3	1.0	0.124	179.6
12/12/2019	08:37:49	0.48	3	2.0	0.412	228.5
12/12/2019	08:38:29	0.48	3	3.0	0.355	239.2
12/12/2019	08:39:09	0.48	3	4.0	0.275	252.8
12/12/2019	08:39:49	0.48	3	5.0	0.256	255.9
12/12/2019	08:40:29	0.54	3	6.0	0.149	253
12/12/2019	08:41:09	0.54	3	7.0	0.183	248.3
12/12/2019	08:41:49	0.54	3	8.0	0.129	232.3
12/12/2019	08:42:29	0.54	3	9.0	0.164	247.2
12/12/2019	08:43:09	0.54	3	10.0	0.174	238.9
12/12/2019	08:43:49	0.54	3	11.0	0.207	234.4
12/12/2019	08:44:29	0.54	3	12.0	0.217	237.8
12/12/2019	08:45:09	0.60	3	13.0	0.220	225.6
12/12/2019	08:45:49	0.60	3	14.0	0.219	236.1
12/12/2019	08:46:29	0.60	3	14.5	0.268	215.1

12/12/2019	08:55:43	0.71	1	1.0	0.110	160.7
12/12/2019	08:57:03	0.71	1	2.0	0.102	153
12/12/2019	08:57:43	0.71	1	3.0	0.109	163.6
12/12/2019	08:59:43	0.71	1	3.5	0.089	170.9
12/12/2019	09:07:23	0.81	2	1.0	0.050	42.3
12/12/2019	09:08:23	0.81	2	2.0	0.043	26.7
12/12/2019	09:09:23	0.81	2	3.0	0.105	22.6
12/12/2019	09:10:23	0.87	2	4.0	0.099	76.2
12/12/2019	09:19:43	0.92	3	1.0	0.050	168.3
12/12/2019	09:20:43	0.96	3	2.0	0.091	200.5
12/12/2019	09:21:43	0.96	3	3.0	0.112	203
12/12/2019	09:22:43	0.96	3	4.0	0.108	193.8
12/12/2019	09:23:43	0.96	3	5.0	0.130	184.5
12/12/2019	09:24:43	0.96	3	6.0	0.150	191.4
12/12/2019	09:25:43	1.02	3	7.0	0.179	193
12/12/2019	09:26:43	1.02	3	8.0	0.184	196
12/12/2019	09:27:43	1.02	3	9.0	0.181	180.3
12/12/2019	09:28:43	1.02	3	10.0	0.196	177.6
12/12/2019	09:29:43	1.02	3	11.0	0.144	177.1
12/12/2019	09:30:43	1.07	3	12.0	0.153	162.8
12/12/2019	09:31:43	1.07	3	13.0	0.156	172.9
12/12/2019	09:32:43	1.07	3	14.0	0.118	163.9
12/12/2019	09:33:43	1.07	3	15.0	0.115	180
12/12/2019	09:45:23	1.22	1	1.0	0.090	146.7
12/12/2019	09:46:23	1.22	1	2.0	0.189	162.8
12/12/2019	09:47:23	1.22	1	3.0	0.110	142.2
12/12/2019	09:48:23	1.22	1	4.0	0.135	180.7
12/12/2019	09:54:02	1.24	2	1.0	0.000	55.4
12/12/2019	09:58:03	1.31	2	2.0	0.217	50.2
12/12/2019	09:59:03	1.31	2	3.0	0.165	64
12/12/2019	09:59:43	1.31	2	4.0	0.205	69.7
12/12/2019	10:00:23	1.33	2	5.0	0.182	60.3
12/12/2019	10:01:03	1.33	2	5.5	0.192	59.5
12/12/2019	10:13:43	1.40	3	1.0	0.360	121.2
12/12/2019	10:14:23	1.40	3	2.0	0.435	116.4
12/12/2019	10:15:03	1.47	3	3.0	0.377	128
12/12/2019	10:15:43	1.47	3	4.0	0.386	103.2
12/12/2019	10:16:23	1.47	3	5.0	0.312	97
12/12/2019	10:17:03	1.47	3	6.0	0.436	108.9
12/12/2019	10:17:43	1.47	3	7.0	0.459	121.7
12/12/2019	10:18:23	1.47	3	8.0	0.359	136.9
12/12/2019	10:19:03	1.47	3	9.0	0.352	135.5
12/12/2019	10:19:43	1.47	3	10.0	0.332	134
12/12/2019	10:20:23	1.48	3	11.0	0.410	129.7
12/12/2019	10:21:03	1.48	3	12.0	0.335	137.8
12/12/2019	10:21:43	1.48	3	13.0	0.360	135.8
12/12/2019	10:22:23	1.48	3	14.0	0.250	140.9
12/12/2019	10:23:03	1.48	3	15.0	0.257	143.8
12/12/2019	10:23:43	1.48	3	16.0	0.242	141.8
12/12/2019	10:33:23	1.55	1	1.0	0.006	283.3
12/12/2019	10:34:23	1.55	1	2.0	0.102	222.4
12/12/2019	10:35:23	1.58	1	3.0	0.125	203.8
12/12/2019	10:36:23	1.58	1	4.0	0.092	199.2
12/12/2019	10:47:43	1.66	2	1.0	0.246	89
12/12/2019	10:48:43	1.66	2	2.0	0.254	82.7
12/12/2019	10:49:43	1.66	2	3.0	0.286	69
12/12/2019	10:50:43	1.66	2	4.0	0.278	61.7
12/12/2019	10:51:43	1.66	2	5.0	0.258	58.4
12/12/2019	10:52:43	1.66	2	6.0	0.272	54.8
12/12/2019	10:59:43	1.68	3	1.0	0.667	99.8
12/12/2019	11:00:43	1.69	3	2.0	0.491	145.2
12/12/2019	11:01:43	1.69	3	3.0	0.575	136.1
12/12/2019	11:02:03	1.69	3	4.0	0.525	148.6
12/12/2019	11:02:23	1.69	3	5.0	0.565	138.3
12/12/2019	11:03:03	1.69	3	6.0	0.617	139.5
12/12/2019	11:03:43	1.69	3	7.0	0.512	133.2
12/12/2019	11:04:43	1.69	3	8.0	0.358	133.9
12/12/2019	11:05:03	1.69	3	9.0	0.506	135.9
12/12/2019	11:05:43	1.69	3	10.0	0.713	128.2
12/12/2019	11:06:03	1.69	3	11.0	0.581	141.4

12/12/2019	11:06:23	1.69	3	12.0	0.554	135.2
12/12/2019	11:06:43	1.69	3	13.0	0.573	133.2
12/12/2019	11:18:23	1.71	1	1.0	0.100	146.7
12/12/2019	11:19:23	1.71	1	2.0	0.025	148.7
12/12/2019	11:20:23	1.72	1	3.0	0.024	114.7
12/12/2019	11:21:23	1.72	1	4.0	0.049	314
12/12/2019	11:27:23	1.72	2	1.0	0.275	67.6
12/12/2019	11:28:23	1.72	2	2.0	0.337	73.3
12/12/2019	11:29:23	1.72	2	3.0	0.348	67.5
12/12/2019	11:30:23	1.73	2	4.0	0.345	69.4
12/12/2019	11:31:23	1.73	2	5.0	0.350	64.3
12/12/2019	11:32:23	1.73	2	6.0	0.305	61.4
12/12/2019	11:48:23	1.69	3	1.0	0.743	137.7
12/12/2019	11:49:23	1.69	3	2.0	0.800	130
12/12/2019	11:50:03	1.68	3	3.0	0.804	128.1
12/12/2019	11:50:43	1.68	3	4.0	0.612	137.8
12/12/2019	11:51:23	1.68	3	5.0	0.653	129.2
12/12/2019	11:52:03	1.68	3	6.0	0.672	131.5
12/12/2019	11:52:43	1.68	3	7.0	0.623	132.6
12/12/2019	11:54:23	1.68	3	8.0	0.604	134.2
12/12/2019	11:55:03	1.67	3	9.0	0.618	124.6
12/12/2019	11:55:43	1.67	3	10.0	0.600	133.1
12/12/2019	11:56:23	1.67	3	11.0	0.632	124.5
12/12/2019	11:57:03	1.67	3	12.0	0.551	130.8
12/12/2019	11:57:43	1.67	3	13.0	0.574	132.2
12/12/2019	11:58:43	1.67	3	15.0	0.527	131.5
12/12/2019	11:59:23	1.67	3	16.0	0.522	0
12/12/2019	12:15:03	1.55	1	1.0	0.055	120.6
12/12/2019	12:16:03	1.55	1	2.0	0.076	20.8
12/12/2019	12:17:03	1.55	1	3.0	0.092	326
12/12/2019	12:18:03	1.55	1	4.0	0.026	291.8
12/12/2019	12:25:43	1.48	2	1.0	0.251	77.4
12/12/2019	12:26:43	1.48	2	2.0	0.260	69
12/12/2019	12:27:43	1.48	2	3.0	0.246	73.5
12/12/2019	12:28:43	1.48	2	4.0	0.281	68.7
12/12/2019	12:29:43	1.48	2	5.0	0.236	62.1
12/12/2019	12:30:43	1.44	2	6.0	0.265	54.9
12/12/2019	13:17:49	0.94	1	1.0	0.062	304.5
12/12/2019	13:18:49	0.94	1	2.0	0.204	252.4
12/12/2019	13:19:49	0.94	1	3.0	0.048	186.7
12/12/2019	13:20:49	0.87	1	4.0	0.043	217.7
12/12/2019	13:26:49	0.80	2	1.0	0.213	75.1
12/12/2019	13:27:49	0.80	2	2.0	0.243	76.3
12/12/2019	13:28:49	0.80	2	3.0	0.228	72.1
12/12/2019	13:32:49	0.73	2	4.0	0.238	63.3
12/12/2019	13:33:49	0.73	2	5.0	0.170	56.4
12/12/2019	13:42:49	0.58	3	1.0	0.711	108.3
12/12/2019	13:43:49	0.58	3	2.0	0.709	108
12/12/2019	13:44:49	0.58	3	3.0	0.739	113.9
12/12/2019	13:45:49	0.50	3	4.0	0.719	108
12/12/2019	13:46:49	0.50	3	5.0	0.681	113.7
12/12/2019	13:47:49	0.50	3	6.0	0.675	110.2
12/12/2019	13:48:49	0.50	3	7.0	0.624	106.6
12/12/2019	13:49:49	0.50	3	8.0	0.655	112.8
12/12/2019	13:50:49	0.42	3	9.0	0.715	110.7
12/12/2019	13:51:49	0.42	3	10.0	0.657	101.4
12/12/2019	13:52:49	0.42	3	11.0	0.688	107.4
12/12/2019	13:53:49	0.42	3	12.0	0.742	113.8
12/12/2019	13:54:49	0.42	3	13.0	0.601	110.3
12/12/2019	13:55:49	0.36	3	14.0	0.686	104.5
12/12/2019	14:07:49	0.19	1	1.0	0.009	255.7
12/12/2019	14:08:49	0.19	1	2.0	0.008	314
12/12/2019	14:09:49	0.19	1	3.0	0.000	329.3
12/12/2019	14:14:09	0.10	2	1.0	0.222	56.8
12/12/2019	14:15:09	0.03	2	2.0	0.069	71.3
12/12/2019	14:16:09	0.03	2	3.0	0.208	51.7
12/12/2019	14:17:09	0.03	2	4.0	0.189	52.2
12/12/2019	14:18:09	0.03	2	5.0	0.096	44.8
12/12/2019	14:25:09	-0.13	3	1.0	0.505	108.5
12/12/2019	14:26:09	-0.13	3	3.0	0.627	100.5

12/12/2019	14:27:09	-0.13	3	5.0	0.610	117.3
12/12/2019	14:28:09	-0.13	3	7.0	0.536	103.5
12/12/2019	14:29:09	-0.13	3	9.0	0.529	111.6
12/12/2019	14:30:09	-0.21	3	11.0	0.537	91.9
12/12/2019	14:31:09	-0.21	3	13.0	0.551	114.3
12/12/2019	14:32:09	-0.21	3	14.0	0.518	104.5
12/12/2019	14:44:09	-0.37	1	1.0	0.132	10.8
12/12/2019	14:45:09	-0.42	1	2.0	0.125	188.6
12/12/2019	14:46:09	-0.42	1	3.0	0.000	351.3
12/12/2019	14:51:09	-0.50	2	1.0	0.136	62.9
12/12/2019	14:52:09	-0.50	2	2.0	0.140	50
12/12/2019	14:53:09	-0.50	2	3.0	0.026	63.1
12/12/2019	14:54:09	-0.50	2	4.0	0.032	39.4
12/12/2019	15:05:49	-0.73	3	1.0	0.427	94.5
12/12/2019	15:06:49	-0.73	3	3.0	0.401	91.8
12/12/2019	15:07:49	-0.73	3	5.0	0.418	107.5
12/12/2019	15:08:49	-0.73	3	7.0	0.387	85
12/12/2019	15:09:49	-0.73	3	9.0	0.276	76.9
12/12/2019	15:10:49	-0.80	3	11.0	0.300	72.6
12/12/2019	15:11:49	-0.80	3	13.0	0.320	62.1
12/12/2019	15:12:49	-0.80	3	14.0	0.210	74.7
12/12/2019	15:30:49	-1.04	1	1.0	0.000	267.6
12/12/2019	15:31:49	-1.04	1	2.0	0.053	280
12/12/2019	15:39:49	-1.14	2	1.0	0.022	11.1
12/12/2019	15:40:49	-1.19	2	2.0	0.014	15.6
12/12/2019	15:41:49	-1.19	2	3.0	0.000	350.8
12/12/2019	15:50:49	-1.31	3	1.0	0.143	9.1
12/12/2019	15:51:49	-1.31	3	3.0	0.099	338.6
12/12/2019	15:52:49	-1.31	3	5.0	0.023	233.6
12/12/2019	15:53:49	-1.31	3	7.0	0.009	94.3
12/12/2019	15:54:49	-1.31	3	9.0	0.192	351.5
12/12/2019	15:55:49	-1.34	3	11.0	0.165	336.9
12/12/2019	15:57:29	-1.34	3	13.0	0.007	290.8
12/12/2019	15:58:29	-1.34	3	14.0	0.045	178.6
12/12/2019	16:08:09	-1.40	1	1.0	0.006	226.3
12/12/2019	16:09:09	-1.40	1	2.0	0.115	228.9
12/12/2019	16:14:49	-1.45	2	1.0	0.046	246.6
12/12/2019	16:15:49	-1.48	2	2.0	0.075	262.5
12/12/2019	16:16:49	-1.48	2	3.0	0.102	278.3
12/12/2019	16:25:49	-1.54	3	1.0	0.372	359.2
12/12/2019	16:26:49	-1.54	3	3.0	0.323	344.6
12/12/2019	16:27:49	-1.54	3	5.0	0.259	339.1
12/12/2019	16:28:49	-1.54	3	7.0	0.211	347.8
12/12/2019	16:29:49	-1.54	3	9.0	0.207	357.4
12/12/2019	16:30:49	-1.59	3	11.0	0.244	0.4
12/12/2019	16:31:49	-1.59	3	13.0	0.215	357.6
12/12/2019	16:41:49	-1.62	1	1.0	0.051	215.3
12/12/2019	16:42:49	-1.62	1	2.0	0.000	244.7
12/12/2019	16:48:29	-1.64	2	1.0	0.028	178.1
12/12/2019	16:49:29	-1.64	2	2.0	0.156	186.5
12/12/2019	16:50:29	-1.64	2	3.0	0.108	167
12/12/2019	16:58:49	-1.66	3	1.0	0.401	350.8
12/12/2019	16:59:49	-1.66	3	3.0	0.406	338.7
12/12/2019	17:00:49	-1.68	3	5.0	0.347	344.4
12/12/2019	17:01:49	-1.68	3	7.0	0.321	329.5
12/12/2019	17:02:49	-1.68	3	9.0	0.300	342.4
12/12/2019	17:03:49	-1.68	3	11.0	0.287	335.5
12/12/2019	17:04:49	-1.68	3	13.0	0.183	326.1
12/12/2019	17:13:49	-1.68	1	1.0	0.000	256.1
12/12/2019	17:19:49	-1.67	2	1.0	0.106	132.2
12/12/2019	17:20:49	-1.63	2	2.0	0.082	124.2
12/12/2019	17:21:49	-1.63	2	3.0	0.025	95.2

12/12/2019	17:31:09	-1.63	3	1.0	0.365	326.1
12/12/2019	17:32:09	-1.63	3	3.0	0.361	320.4
12/12/2019	17:33:09	-1.63	3	5.0	0.371	315.3
12/12/2019	17:34:09	-1.63	3	7.0	0.259	328
12/12/2019	17:35:09	-1.60	3	9.0	0.280	314.7
12/12/2019	17:36:09	-1.60	3	11.0	0.290	306.3
12/12/2019	17:37:09	-1.60	3	13.0	0.243	307.1
12/12/2019	17:47:49	-1.56	1	1.0	0.000	221.3
12/12/2019	17:48:49	-1.56	1	2.0	0.000	244.2
12/12/2019	17:58:29	-1.49	2	1.0	0.027	93.3
12/12/2019	17:59:29	-1.49	2	2.0	0.105	105.4
12/12/2019	18:00:29	-1.46	2	3.0	0.062	81.4
12/12/2019	18:11:49	-1.38	3	1.0	0.190	320.1
12/12/2019	18:12:49	-1.38	3	3.0	0.247	294.4
12/12/2019	18:13:49	-1.38	3	5.0	0.237	294.2
12/12/2019	18:14:49	-1.38	3	7.0	0.216	269
12/12/2019	18:15:49	-1.35	3	9.0	0.201	263
12/12/2019	18:16:49	-1.35	3	11.0	0.208	280.4
12/12/2019	18:17:49	-1.35	3	13.0	0.228	257.5
12/12/2019	18:28:09	-1.25	1	1.0	0.049	113.4
12/12/2019	18:29:09	-1.25	1	2.0	0.108	146.8
12/12/2019	18:35:29	-1.15	2	1.0	0.032	87.7
12/12/2019	18:36:29	-1.15	2	2.0	0.150	9.9
12/12/2019	18:37:29	-1.15	2	3.0	0.114	83.1
12/12/2019	18:38:29	-1.15	2	4.0	0.091	38.2
12/12/2019	18:47:09	-1.02	3	1.0	0.343	306.2
12/12/2019	18:48:09	-1.02	3	3.0	0.334	298.9
12/12/2019	18:49:09	-1.02	3	5.0	0.469	292.6
12/12/2019	18:50:09	-0.94	3	7.0	0.395	291.5
12/12/2019	18:51:09	-0.94	3	9.0	0.411	289.8
12/12/2019	18:52:09	-0.94	3	11.0	0.287	279
12/12/2019	18:53:09	-0.94	3	13.0	0.392	287.8
12/12/2019	19:03:29	-0.84	1	1.0	0.085	178.5
12/12/2019	19:04:29	-0.84	1	2.0	0.000	208.9
12/12/2019	19:11:49	-0.70	2	1.0	0.125	115.3
12/12/2019	19:12:49	-0.70	2	2.0	0.136	78
12/12/2019	19:13:49	-0.70	2	3.0	0.118	83.2
12/12/2019	19:14:49	-0.70	2	4.0	0.097	92.9
12/12/2019	19:23:49	-0.56	3	1.0	0.316	306.2
12/12/2019	19:24:49	-0.56	3	3.0	0.290	308.3
12/12/2019	19:25:49	-0.50	3	5.0	0.373	302.4
12/12/2019	19:26:49	-0.50	3	7.0	0.318	298.6
12/12/2019	19:27:49	-0.50	3	9.0	0.273	300.9
12/12/2019	19:28:49	-0.50	3	11.0	0.279	291.5
12/12/2019	19:29:49	-0.50	3	13.0	0.293	296.6
12/12/2019	19:30:49	-0.47	3	14.0	0.267	290.1
12/12/2019	19:39:49	-0.38	1	1.0	0.019	218.2
12/12/2019	19:40:49	-0.32	1	2.0	0.146	179.6
12/12/2019	19:41:49	-0.32	1	3.0	0.000	231.8
12/12/2019	19:48:29	-0.22	2	1.0	0.022	80.4
12/12/2019	19:49:29	-0.22	2	2.0	0.051	65.3
12/12/2019	19:50:29	-0.20	2	3.0	0.081	58
12/12/2019	19:51:29	-0.20	2	4.0	0.072	39.2
12/12/2019	20:00:29	-0.03	3	1.0	0.091	226.8
12/12/2019	20:01:29	-0.03	3	3.0	0.291	281.8
12/12/2019	20:02:29	-0.03	3	5.0	0.328	276.2
12/12/2019	20:03:29	-0.03	3	7.0	0.296	273
12/12/2019	20:04:29	-0.03	3	9.0	0.285	273.1
12/12/2019	20:05:29	0.04	3	11.0	0.240	251.3
12/12/2019	20:06:29	0.04	3	13.0	0.319	265.6
12/12/2019	20:07:29	0.04	3	14.0	0.323	263.4
12/12/2019	20:17:29	0.19	1	1.0	0.023	143.3
12/12/2019	20:18:29	0.19	1	2.0	0.006	176.4
12/12/2019	20:19:29	0.19	1	3.0	0.000	238.2
12/12/2019	20:25:49	0.33	2	1.0	0.173	47.7
12/12/2019	20:26:49	0.33	2	2.0	0.120	73.1
12/12/2019	20:27:49	0.33	2	3.0	0.113	52.4
12/12/2019	20:28:49	0.33	2	4.0	0.138	47.3
12/12/2019	20:29:49	0.33	2	5.0	0.129	46

Site:	Howth					
Project number:	PH19030					
Date:	17/12/2019					
Instrument:	Valeport 106					
Date	Time [GMT]	Tide [ODM]	Station	Depth (m)	Speed (m/s)	Direction (mag)
17/12/2019	06:23:51	-0.62	1	1	0.006	268.1
17/12/2019	06:24:51	-0.62	1	1.5	0.048	186.2
17/12/2019	07:01:36	-1.02	2	1	0.011	269.7
17/12/2019	07:02:36	-1.02	2	2	0.012	274.6
17/12/2019	07:03:36	-1.02	2	3	0.043	284.5
17/12/2019	07:16:06	-1.15	3	1	0.277	13.1
17/12/2019	07:17:21	-1.15	3	2	0.231	15.4
17/12/2019	07:18:06	-1.15	3	3	0.289	7.1
17/12/2019	07:19:06	-1.15	3	4	0.257	7.5
17/12/2019	07:20:06	-1.18	3	5	0.250	5.2
17/12/2019	07:21:06	-1.18	3	6	0.293	359.8
17/12/2019	07:22:06	-1.18	3	7	0.271	10.0
17/12/2019	07:23:06	-1.18	3	8	0.266	6.8
17/12/2019	07:24:06	-1.18	3	9	0.275	12.5
17/12/2019	07:25:06	-1.23	3	10	0.204	14.3
17/12/2019	07:26:06	-1.23	3	11	0.253	11.1
17/12/2019	07:27:06	-1.23	3	12	0.232	356.7
17/12/2019	07:28:06	-1.23	3	13	0.188	1.8
17/12/2019	07:43:36	-1.3	1	1	0.000	358.8
17/12/2019	07:51:36	-1.35	2	1	0.156	197.3
17/12/2019	07:52:36	-1.35	2	2	0.048	180.8
17/12/2019	07:53:36	-1.35	2	3	0.019	285.8
17/12/2019	08:01:06	-1.37	3	1	0.223	342.6
17/12/2019	08:02:06	-1.37	3	2	0.357	349.8
17/12/2019	08:03:06	-1.37	3	3	0.340	339.4
17/12/2019	08:04:06	-1.37	3	4	0.321	341.3
17/12/2019	08:05:06	-1.39	3	5	0.327	344.6
17/12/2019	08:06:06	-1.39	3	6	0.311	333.1
17/12/2019	08:07:06	-1.39	3	7	0.364	331.1
17/12/2019	08:08:06	-1.39	3	8	0.326	340.8
17/12/2019	08:09:06	-1.39	3	9	0.310	334.3
17/12/2019	08:10:06	-1.4	3	10	0.286	337.6
17/12/2019	08:11:06	-1.4	3	11	0.329	336.9
17/12/2019	08:12:06	-1.4	3	12	0.323	334.0
17/12/2019	08:13:06	-1.4	3	13	0.266	340.4
17/12/2019	08:26:06	-1.4	1	1	0.000	358.2
17/12/2019	08:27:06	-1.4	1	2	0.078	327.8
17/12/2019	08:28:07	-1.4	1	2.5	0.000	34.3
17/12/2019	08:33:37	-1.41	2	1	0.073	103.5
17/12/2019	08:35:37	-1.41	2	2	0.019	37.0
17/12/2019	08:36:37	-1.41	2	3	0.058	66.5
17/12/2019	08:44:07	-1.38	3	1	0.125	348.0
17/12/2019	08:45:07	-1.37	3	2	0.321	329.6
17/12/2019	08:46:07	-1.37	3	3	0.313	324.2
17/12/2019	08:47:07	-1.37	3	4	0.285	329.3
17/12/2019	08:48:07	-1.37	3	5	0.343	322.6
17/12/2019	08:49:07	-1.37	3	6	0.312	320.7
17/12/2019	08:50:07	-1.36	3	7	0.266	315.0
17/12/2019	08:51:07	-1.36	3	8	0.276	319.0
17/12/2019	08:52:07	-1.36	3	9	0.255	323.7
17/12/2019	08:53:07	-1.36	3	10	0.384	319.4
17/12/2019	08:54:07	-1.36	3	11	0.275	324.7
17/12/2019	08:55:07	-1.34	3	12	0.300	329.6
17/12/2019	08:56:07	-1.34	3	13	0.268	317.4
17/12/2019	08:05:37	-1.39	1	1	0.106	178.0
17/12/2019	09:14:06	-1.28	2	1	0.112	24.4
17/12/2019	09:15:06	-1.23	2	2	0.081	112.0
17/12/2019	09:16:06	-1.23	2	3	0.072	89.5
17/12/2019	09:24:07	-1.21	3	1	0.309	198.1
17/12/2019	09:25:07	-1.18	3	2	0.348	305.5
17/12/2019	09:26:07	-1.18	3	3	0.377	310.0
17/12/2019	09:26:37	-1.18	3	4	0.231	299.9
17/12/2019	09:27:07	-1.18	3	5	0.388	309.5
17/12/2019	09:27:37	-1.18	3	6	0.346	311.7

17/12/2019	09:28:07	-1.18	3	7	0.334	303.5
17/12/2019	09:28:37	-1.18	3	8	0.379	317.2
17/12/2019	09:29:07	-1.18	3	9	0.456	306.3
17/12/2019	09:29:37	-1.18	3	10	0.346	301.3
17/12/2019	09:30:07	-1.15	3	11	0.404	295.1
17/12/2019	09:30:37	-1.15	3	12	0.412	299.7
17/12/2019	09:31:07	-1.15	3	13	0.300	297.2
17/12/2019	09:55:07	-0.91	1	1	0.087	147.6
17/12/2019	09:56:07	-0.91	1	2	0.063	172.8
17/12/2019	09:57:07	-0.91	1	3	0.034	173.4
17/12/2019	10:09:06	-0.81	2	1	0.046	62.3
17/12/2019	10:10:06	-0.76	2	2	0.113	44.3
17/12/2019	10:11:06	-0.76	2	3	0.077	86.5
17/12/2019	10:12:06	-0.76	2	3.5	0.045	76.2
17/12/2019	10:21:07	-0.67	3	1	0.247	322.4
17/12/2019	10:21:37	-0.67	3	2	0.355	307.6
17/12/2019	10:22:07	-0.67	3	3	0.340	310.3
17/12/2019	10:22:37	-0.67	3	4	0.344	306.2
17/12/2019	10:23:07	-0.67	3	5	0.279	304.1
17/12/2019	10:23:37	-0.67	3	6	0.389	294.0
17/12/2019	10:24:07	-0.67	3	7	0.314	297.0
17/12/2019	10:24:37	-0.67	3	8	0.356	298.6
17/12/2019	10:25:07	-0.61	3	9	0.309	297.9
17/12/2019	10:25:52	-0.61	3	10	0.221	291.7
17/12/2019	10:26:22	-0.61	3	11	0.273	290.9
17/12/2019	10:26:52	-0.61	3	12	0.248	280.1
17/12/2019	10:27:22	-0.61	3	13	0.201	283.3
17/12/2019	10:27:52	-0.61	3	14	0.271	278.8
17/12/2019	10:36:37	-0.49	1	1	0.142	159.0
17/12/2019	10:37:37	-0.49	1	2	0.075	144.1
17/12/2019	10:38:07	-0.49	1	2.5	0.010	135.8
17/12/2019	10:43:52	-0.44	2	1	0.084	83.0
17/12/2019	10:44:52	-0.44	2	2	0.115	74.0
17/12/2019	10:45:52	-0.4	2	3	0.099	105.3
17/12/2019	10:46:52	-0.4	2	4	0.113	82.9
17/12/2019	10:55:22	-0.27	3	1	0.160	297.8
17/12/2019	10:55:52	-0.27	3	2	0.165	299.9
17/12/2019	10:56:22	-0.27	3	3	0.274	300.4
17/12/2019	10:56:52	-0.27	3	4	0.250	292.8
17/12/2019	10:57:22	-0.27	3	5	0.285	293.3
17/12/2019	10:57:52	-0.27	3	6	0.265	294.3
17/12/2019	10:58:22	-0.27	3	7	0.302	284.2
17/12/2019	10:58:52	-0.27	3	8	0.191	287.0
17/12/2019	10:59:22	-0.27	3	9	0.232	289.2
17/12/2019	11:00:07	-0.22	3	10	0.248	293.4
17/12/2019	11:00:37	-0.22	3	11	0.223	292.0
17/12/2019	11:01:07	-0.22	3	12	0.215	280.2
17/12/2019	11:01:37	-0.22	3	13	0.274	281.0
17/12/2019	11:02:07	-0.22	3	14	0.245	289.5
17/12/2019	11:11:07	-0.09	1	1	0.154	183.6
17/12/2019	11:12:07	-0.09	1	2	0.183	207.6
17/12/2019	11:13:07	-0.09	1	3	0.103	206.8
17/12/2019	11:18:37	-0.04	2	1	0.111	10.9
17/12/2019	11:19:37	-0.04	2	2	0.133	70.2
17/12/2019	11:20:37	0.01	2	3	0.095	78.4
17/12/2019	11:21:37	0.01	2	4	0.144	60.3
17/12/2019	11:30:37	0.12	3	1	0.233	242.8
17/12/2019	11:31:07	0.12	3	2	0.188	238.3
17/12/2019	11:31:37	0.12	3	3	0.250	249.3
17/12/2019	11:32:07	0.12	3	4	0.220	246.9
17/12/2019	11:32:37	0.12	3	5	0.233	257.6
17/12/2019	11:33:07	0.12	3	6	0.174	272.3
17/12/2019	11:33:37	0.12	3	7	0.229	267.4
17/12/2019	11:34:07	0.12	3	8	0.187	263.8
17/12/2019	11:34:37	0.12	3	9	0.280	252.6
17/12/2019	11:35:07	0.18	3	10	0.246	263.6
17/12/2019	11:35:37	0.18	3	11	0.249	256.9
17/12/2019	11:36:07	0.18	3	12	0.246	256.0
17/12/2019	11:36:37	0.18	3	13	0.198	248.4
17/12/2019	11:37:07	0.18	3	14	0.126	225.9

17/12/2019	11:37:37	0.18	3	15	0.176	246.6
17/12/2019	11:46:37	0.29	1	1	0.152	162.2
17/12/2019	11:47:37	0.29	1	2	0.000	112.9
17/12/2019	11:48:37	0.29	1	3	0.000	359.7
17/12/2019	11:54:37	0.35	2	1	0.102	120.1
17/12/2019	11:55:37	0.4	2	2	0.139	8.8
17/12/2019	11:56:37	0.4	2	3	0.090	85.5
17/12/2019	11:57:52	0.4	2	4	0.096	81.1
17/12/2019	11:58:52	0.4	2	4.5	0.143	60.8
17/12/2019	12:06:07	0.51	3	1	0.158	262.0
17/12/2019	12:06:37	0.51	3	2	0.136	252.6
17/12/2019	12:07:07	0.51	3	3	0.171	244.8
17/12/2019	12:08:07	0.51	3	4	0.163	265.4
17/12/2019	12:08:37	0.51	3	5	0.185	274.5
17/12/2019	12:09:37	0.51	3	6	0.178	283.6
17/12/2019	12:10:07	0.57	3	7	0.171	277.1
17/12/2019	12:10:37	0.57	3	8	0.221	263.5
17/12/2019	12:11:07	0.57	3	9	0.163	260.4
17/12/2019	12:11:37	0.57	3	10	0.150	274.0
17/12/2019	12:12:07	0.57	3	11	0.183	278.1
17/12/2019	12:12:37	0.57	3	12	0.169	281.0
17/12/2019	12:13:07	0.57	3	13	0.173	251.1
17/12/2019	12:13:37	0.57	3	14	0.146	245.5
17/12/2019	12:14:07	0.57	3	15	0.142	240.4
17/12/2019	12:31:07	0.78	1	1	0.057	145.9
17/12/2019	12:32:07	0.78	1	2	0.008	125.5
17/12/2019	12:33:07	0.78	1	3	0.000	101.0
17/12/2019	12:39:07	0.82	2	1	0.123	78.8
17/12/2019	12:40:07	0.86	2	2	0.242	43.7
17/12/2019	12:41:07	0.86	2	3	0.118	78.6
17/12/2019	12:42:07	0.86	2	4	0.140	65.5
17/12/2019	12:43:07	0.86	2	5	0.145	67.5
17/12/2019	12:44:07	0.86	2	5.5	0.147	53.8
17/12/2019	12:50:37	0.97	3	1	0.143	278.7
17/12/2019	12:51:37	0.97	3	2	0.258	201.4
17/12/2019	12:52:07	0.97	3	3	0.265	197.4
17/12/2019	12:52:37	0.97	3	4	0.232	204.5
17/12/2019	12:53:07	0.97	3	5	0.167	195.8
17/12/2019	12:53:37	0.97	3	6	0.135	207.0
17/12/2019	12:54:07	0.97	3	7	0.130	207.8
17/12/2019	12:54:37	0.97	3	8	0.109	209.4
17/12/2019	12:55:07	1.01	3	9	0.101	218.5
17/12/2019	12:55:37	1.01	3	10	0.078	226.7
17/12/2019	12:56:07	1.01	3	11	0.175	298.8
17/12/2019	12:56:37	1.01	3	12	0.079	243.8
17/12/2019	12:57:07	1.01	3	13	0.180	183.1
17/12/2019	12:57:37	1.01	3	14	0.083	189.2
17/12/2019	12:58:07	1.01	3	15	0.127	185.0
17/12/2019	13:24:07	1.23	1	1	0.113	196.0
17/12/2019	13:25:07	1.27	1	2	0.129	193.1
17/12/2019	13:26:07	1.27	1	3	0.109	187.5
17/12/2019	13:27:07	1.27	1	4	0.041	181.8
17/12/2019	13:33:07	1.3	2	1	0.212	62.4
17/12/2019	13:34:07	1.3	2	2	0.248	70.1
17/12/2019	13:35:07	1.33	2	3	0.219	74.4
17/12/2019	13:36:07	1.33	2	4	0.219	69.1
17/12/2019	13:37:07	1.33	2	5	0.245	65.9
17/12/2019	13:38:07	1.33	2	6	0.202	73.8
17/12/2019	13:46:07	1.4	3	1	0.376	115.5
17/12/2019	13:47:07	1.4	3	2	0.335	123.1
17/12/2019	13:48:07	1.4	3	3	0.331	118.7
17/12/2019	13:49:07	1.4	3	4	0.357	106.6
17/12/2019	13:50:07	1.43	3	5	0.382	125.0
17/12/2019	13:51:07	1.43	3	6	0.357	128.4
17/12/2019	13:52:07	1.43	3	7	0.352	132.4
17/12/2019	13:53:07	1.43	3	8	0.343	121.2
17/12/2019	13:54:07	1.43	3	9	0.281	130.8
17/12/2019	13:55:07	1.49	3	10	0.295	128.5
17/12/2019	13:56:07	1.49	3	11	0.293	132.9
17/12/2019	13:57:07	1.49	3	12	0.261	126.0

17/12/2019	13:58:07	1.49	3	13	0.305	123.8
17/12/2019	13:59:07	1.49	3	14	0.269	134.4
17/12/2019	14:00:07	1.5	3	15	0.306	141.5
17/12/2019	14:10:37	1.57	1	1	0.154	163.8
17/12/2019	14:11:37	1.57	1	2	0.074	166.6
17/12/2019	14:12:37	1.57	1	3	0.075	325.0
17/12/2019	14:13:37	1.57	1	4	0.060	0.9
17/12/2019	14:20:07	1.6	2	1	0.263	85.4
17/12/2019	14:21:07	1.6	2	2	0.290	72.6
17/12/2019	14:22:07	1.6	2	3	0.294	73.8
17/12/2019	14:23:07	1.6	2	4	0.313	70.1
17/12/2019	14:24:07	1.6	2	5	0.287	66.7
17/12/2019	14:25:07	1.63	2	6	0.291	64.3
17/12/2019	14:32:52	1.64	3	1	0.556	126.0
17/12/2019	14:33:52	1.64	3	2	0.519	138.0
17/12/2019	14:34:52	1.64	3	3	0.532	130.7
17/12/2019	14:35:52	1.67	3	4	0.557	130.6
17/12/2019	14:36:52	1.67	3	5	0.555	131.6
17/12/2019	14:37:52	1.67	3	6	0.539	133.4
17/12/2019	14:38:52	1.67	3	7	0.604	138.4
17/12/2019	14:39:52	1.67	3	8	0.481	128.6
17/12/2019	14:40:52	1.68	3	9	0.495	136.2
17/12/2019	14:41:52	1.68	3	10	0.511	127.3
17/12/2019	14:42:52	1.68	3	11	0.583	130.1
17/12/2019	14:43:52	1.68	3	12	0.607	131.4
17/12/2019	14:44:52	1.68	3	13	0.514	134.1
17/12/2019	14:45:52	1.69	3	14	0.510	138.2
17/12/2019	14:46:52	1.69	3	15	0.499	137.0
17/12/2019	14:57:52	1.69	1	1	0.092	138.7
17/12/2019	14:58:52	1.69	1	2	0.009	107.6
17/12/2019	14:59:52	1.69	1	3	0.000	330.4
17/12/2019	15:00:52	1.69	1	4	0.011	245.3
17/12/2019	15:11:37	1.71	2	1	0.300	82.5
17/12/2019	15:12:37	1.71	2	2	0.314	73.3
17/12/2019	15:13:37	1.71	2	3	0.317	71.3
17/12/2019	15:14:37	1.71	2	4	0.319	66.7
17/12/2019	15:15:37	1.7	2	5	0.348	61.6
17/12/2019	15:16:37	1.7	2	6	0.328	62.5
17/12/2019	15:26:52	1.69	3	1	0.653	123.4
17/12/2019	15:27:52	1.69	3	2	0.667	124.4
17/12/2019	15:28:52	1.69	3	3	0.684	134.3
17/12/2019	15:29:52	1.69	3	4	0.636	124.6
17/12/2019	15:30:52	1.69	3	5	0.650	133.0
17/12/2019	15:31:52	1.69	3	6	0.680	126.7
17/12/2019	15:32:52	1.69	3	7	0.703	132.9
17/12/2019	15:33:52	1.69	3	8	0.643	132.4
17/12/2019	15:34:52	1.69	3	9	0.651	122.7
17/12/2019	15:35:52	1.67	3	10	0.697	129.7
17/12/2019	15:36:52	1.67	3	11	0.681	125.5
17/12/2019	15:37:52	1.67	3	12	0.666	126.9
17/12/2019	15:38:52	1.67	3	13	0.643	125.7
17/12/2019	15:39:22	1.67	3	14	0.682	118.4
17/12/2019	15:40:52	1.65	3	15	0.594	125.8
17/12/2019	15:56:52	1.55	1	1	0.000	318.9
17/12/2019	15:57:52	1.55	1	2	0.000	310.0
17/12/2019	15:58:52	1.55	1	3	0.007	282.5
17/12/2019	15:59:52	1.55	1	4	0.058	235.4
17/12/2019	16:09:37	1.51	2	1	0.268	81.4
17/12/2019	16:10:37	1.49	2	2	0.266	70.9
17/12/2019	16:11:37	1.49	2	3	0.280	67.0
17/12/2019	16:12:37	1.49	2	4	0.301	62.3
17/12/2019	16:13:37	1.49	2	5	0.282	60.5
17/12/2019	16:14:37	1.49	2	6	0.263	62.6
17/12/2019	16:23:37	1.41	3	1	0.773	110.5
17/12/2019	16:24:37	1.41	3	2	0.698	116.3
17/12/2019	16:25:37	1.35	3	3	0.667	126.3
17/12/2019	16:26:37	1.35	3	4	0.745	126.4
17/12/2019	16:27:37	1.35	3	5	0.701	125.7
17/12/2019	16:28:37	1.35	3	6	0.763	127.4
17/12/2019	16:29:37	1.35	3	7	0.742	129.7

17/12/2019	16:30:37	1.32	3	8	0.680	130.1
17/12/2019	16:31:37	1.32	3	9	0.688	130.3
17/12/2019	16:32:37	1.32	3	10	0.640	128.6
17/12/2019	16:33:37	1.32	3	11	0.661	127.2
17/12/2019	16:34:37	1.32	3	12	0.680	134.5
17/12/2019	16:35:37	1.26	3	13	0.622	135.6
17/12/2019	16:36:37	1.26	3	14	0.605	133.1
17/12/2019	16:37:37	1.26	3	15	0.636	126.8
17/12/2019	16:48:37	1.15	1	1	0.032	156.7
17/12/2019	16:49:37	1.15	1	2	0.092	148.8
17/12/2019	16:50:37	1.11	1	3	0.040	150.5
17/12/2019	16:51:37	1.11	1	4	0.000	137.2
17/12/2019	16:57:52	1.02	2	1	0.202	62.4
17/12/2019	16:58:52	1.02	2	2	0.332	59.7
17/12/2019	16:59:52	1.02	2	3	0.206	100.0
17/12/2019	17:00:52	0.97	2	4	0.219	82.4
17/12/2019	17:01:52	0.97	2	5	0.212	76.5
17/12/2019	17:02:52	0.97	2	6	0.155	75.8
17/12/2019	17:13:07	0.84	3	1	0.613	109.6
17/12/2019	17:14:07	0.84	3	2	0.700	111.0
17/12/2019	17:15:07	0.77	3	3	0.749	112.6
17/12/2019	17:16:07	0.77	3	4	0.772	113.2
17/12/2019	17:17:07	0.77	3	5	0.776	111.6
17/12/2019	17:18:07	0.77	3	6	0.790	107.7
17/12/2019	17:19:07	0.77	3	7	0.706	107.4
17/12/2019	17:20:07	0.7	3	8	0.707	103.6
17/12/2019	17:21:07	0.7	3	9	0.618	101.2
17/12/2019	17:22:07	0.7	3	10	0.702	104.2
17/12/2019	17:23:07	0.7	3	11	0.601	102.5
17/12/2019	17:24:07	0.7	3	12	0.579	97.2
17/12/2019	17:25:07	0.63	3	13	0.657	108.0
17/12/2019	17:26:07	0.63	3	14	0.450	97.3
17/12/2019	17:27:07	0.63	3	15	0.481	98.9
17/12/2019	17:38:07	0.49	1	1	0.093	33.9
17/12/2019	17:39:07	0.49	1	2	0.000	36.2

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17/12/2019	17:40:07	0.42	1	3	0.000	10.0
17/12/2019	17:41:07	0.42	1	4	0.000	67.8
17/12/2019	17:47:52	0.35	2	1	0.108	38.2
17/12/2019	17:48:52	0.35	2	2	0.274	17.5
17/12/2019	17:49:52	0.35	2	3	0.139	67.3
17/12/2019	17:50:52	0.26	2	4	0.133	74.1
17/12/2019	17:51:52	0.26	2	5	0.129	57.0
17/12/2019	18:02:52	0.12	3	1	0.600	108.9
17/12/2019	18:03:52	0.12	3	2	0.598	112.1
17/12/2019	18:04:52	0.12	3	3	0.628	110.4
17/12/2019	18:05:52	0.04	3	4	0.622	116.6
17/12/2019	18:06:52	0.04	3	5	0.596	115.7
17/12/2019	18:07:52	0.04	3	6	0.552	117.3
17/12/2019	18:08:52	0.04	3	7	0.617	119.1
17/12/2019	18:09:52	0.04	3	8	0.632	118.1
17/12/2019	18:10:52	-0.02	3	9	0.613	115.5
17/12/2019	18:11:52	-0.02	3	10	0.643	120.9
17/12/2019	18:12:52	-0.02	3	11	0.581	112.2
17/12/2019	18:13:52	-0.02	3	12	0.572	112.7
17/12/2019	18:14:52	-0.02	3	13	0.565	108.8
17/12/2019	18:15:52	-0.11	3	14	0.609	113.7
17/12/2019	18:16:52	-0.11	3	15	0.584	110.7
17/12/2019	18:27:37	-0.25	1	1	0.094	327.8
17/12/2019	18:28:37	-0.25	1	2	0.039	314.4
17/12/2019	18:29:37	-0.25	1	3	0.000	286.5
17/12/2019	18:42:52	-0.48	2	1	0.082	352.7
17/12/2019	18:43:52	-0.48	2	2	0.075	8.2
17/12/2019	18:44:52	-0.48	2	3	0.009	357.0
17/12/2019	18:45:52	-0.55	2	4	0.000	353.7
17/12/2019	18:58:22	-0.7	3	1	0.356	100.9
17/12/2019	18:59:22	-0.7	3	2	0.318	104.7
17/12/2019	19:00:22	-0.79	3	3	0.327	97.8
17/12/2019	19:01:22	-0.79	3	4	0.353	99.2
17/12/2019	19:02:22	-0.79	3	5	0.283	105.9
17/12/2019	19:03:22	-0.79	3	6	0.320	97.0
17/12/2019	19:04:22	-0.79	3	7	0.296	98.6
17/12/2019	19:05:22	-0.85	3	8	0.289	80.8
17/12/2019	19:06:22	-0.85	3	9	0.245	93.8
17/12/2019	19:07:07	-0.85	3	10	0.266	100.6
17/12/2019	19:08:22	-0.85	3	11	0.209	99.1
17/12/2019	19:09:22	-0.85	3	12	0.207	86.0
17/12/2019	19:10:22	-0.9	3	13	0.222	88.6
17/12/2019	19:11:22	-0.9	3	14	0.217	83.9
17/12/2019	19:21:52	-1.05	1	1	0.061	358.1
17/12/2019	19:22:52	-1.05	1	2	0.031	294.6
17/12/2019	19:30:52	-1.16	2	1	0.000	332.0
17/12/2019	19:31:52	-1.16	2	2	0.011	311.9
17/12/2019	19:32:52	-1.16	2	3	0.015	280.7
17/12/2019	19:33:52	-1.16	2	4	0.000	98.4
17/12/2019	19:48:52	-1.31	3	1	0.201	348.0
17/12/2019	19:49:52	-1.31	3	2	0.175	346.2
17/12/2019	19:50:52	-1.38	3	3	0.207	338.8
17/12/2019	19:51:52	-1.38	3	4	0.223	331.8
17/12/2019	19:52:52	-1.38	3	5	0.195	330.8
17/12/2019	19:53:52	-1.38	3	6	0.189	340.6
17/12/2019	19:54:52	-1.38	3	7	0.170	335.1
17/12/2019	19:55:52	-1.38	3	8	0.190	338.9
17/12/2019	19:56:52	-1.38	3	9	0.185	345.4
17/12/2019	19:57:52	-1.38	3	10	0.171	342.8
17/12/2019	19:58:52	-1.38	3	11	0.139	341.7
17/12/2019	19:59:52	-1.38	3	12	0.181	358.3
17/12/2019	20:00:52	-1.44	3	13	0.128	347.0
17/12/2019	20:15:52	-1.55	1	1	0.000	200.4
17/12/2019	20:16:52	-1.55	1	2	0.000	176.2
17/12/2019	20:23:52	-1.6	2	1	0.111	206.9
17/12/2019	20:24:52	-1.6	2	2	0.134	217.1
17/12/2019	20:25:52	-1.62	2	3	0.112	233.4

Wave Buoy Records						
Time Frame	Sig Wave height	Sig Wave Period	Mean wave height	Mean Wave Period	Max Wave Height	Max Wave Period
dd/mm/yy: hh:mm:ss-hh:mm:ss	m	s	m	s	m	s
18/11/19: 14:10:00 - 14:20:00	0.05		5.88	0.03	3.92	0.10
18/11/19: 14:20:00 - 14:30:00	0.06		6.72	0.03	4.28	0.12
18/11/19: 14:30:00 - 14:40:00	0.06		7.21	0.04	4.73	0.10
18/11/19: 14:40:00 - 14:50:00	0.06		7.62	0.03	4.49	0.09
18/11/19: 14:50:00 - 15:00:00	0.06		7.64	0.03	4.55	0.09
18/11/19: 15:00:00 - 15:10:00	0.06		7.43	0.03	4.80	0.08
18/11/19: 15:10:00 - 15:20:00	0.05		7.56	0.03	4.61	0.09
18/11/19: 15:20:00 - 15:30:00	0.05		6.58	0.03	4.56	0.09
18/11/19: 15:30:00 - 15:40:00	0.05		6.91	0.03	4.51	0.09
18/11/19: 15:40:00 - 15:50:00	0.05		6.52	0.03	4.63	0.08
18/11/19: 15:50:00 - 16:00:00	0.05		7.07	0.03	4.52	0.09
18/11/19: 16:00:00 - 16:10:00	0.05		6.09	0.03	4.06	0.08
18/11/19: 16:10:00 - 16:20:00	0.05		7.17	0.03	4.33	0.09
18/11/19: 16:20:00 - 16:30:00	0.05		7.00	0.03	4.57	0.09
18/11/19: 16:30:00 - 16:40:00	0.05		7.00	0.03	4.45	0.07
18/11/19: 16:40:00 - 16:50:00	0.05		8.31	0.03	4.68	0.09
18/11/19: 16:50:00 - 17:00:00	0.04		7.72	0.02	4.25	0.07
18/11/19: 17:00:00 - 17:10:00	0.04		7.03	0.02	3.94	0.09
18/11/19: 17:10:00 - 17:20:00	0.05		8.55	0.03	4.73	0.07
18/11/19: 17:20:00 - 17:30:00	0.05		7.76	0.03	4.62	0.10
18/11/19: 17:30:00 - 17:40:00	0.05		6.43	0.03	4.06	0.08
18/11/19: 17:40:00 - 17:50:00	0.04		6.05	0.03	3.80	0.09
18/11/19: 17:50:00 - 18:00:00	0.05		6.45	0.03	3.96	0.07
18/11/19: 18:00:00 - 18:10:00	0.06		7.17	0.03	4.60	0.09
18/11/19: 18:10:00 - 18:20:00	0.06		6.69	0.03	4.50	0.10
18/11/19: 18:20:00 - 18:30:00	0.06		7.91	0.03	4.43	0.13
18/11/19: 18:30:00 - 18:40:00	0.05		6.63	0.03	4.57	0.09
18/11/19: 18:40:00 - 18:50:00	0.05		8.10	0.03	4.79	0.11
18/11/19: 18:50:00 - 19:00:00	0.06		7.91	0.03	4.84	0.09
18/11/19: 19:00:00 - 19:10:00	0.06		6.47	0.03	4.52	0.08
18/11/19: 19:10:00 - 19:20:00	0.07		7.22	0.04	5.08	0.10
18/11/19: 19:20:00 - 19:30:00	0.06		6.12	0.03	4.37	0.11
18/11/19: 19:30:00 - 19:40:00	0.05		7.28	0.03	4.46	0.08
18/11/19: 19:40:00 - 19:50:00	0.05		5.90	0.03	4.13	0.09
18/11/19: 19:50:00 - 20:00:00	0.05		6.74	0.03	4.35	0.07
18/11/19: 20:00:00 - 20:10:00	0.04		6.57	0.03	4.17	0.07
18/11/19: 20:10:00 - 20:20:00	0.05		6.51	0.03	4.08	0.09
18/11/19: 20:20:00 - 20:30:00	0.04		6.60	0.02	3.97	0.08
18/11/19: 20:30:00 - 20:40:00	0.04		6.13	0.03	4.33	0.10
18/11/19: 20:40:00 - 20:50:00	0.05		6.56	0.03	4.16	0.10
18/11/19: 20:50:00 - 21:00:00	0.04		6.53	0.02	3.88	0.08
18/11/19: 21:00:00 - 21:10:00	0.05		6.64	0.03	3.86	0.08
18/11/19: 21:10:00 - 21:20:00	0.04		7.08	0.02	4.10	0.10
18/11/19: 21:20:00 - 21:30:00	0.04		7.20	0.02	4.21	0.06
18/11/19: 21:30:00 - 21:40:00	0.05		7.08	0.03	4.17	0.09
18/11/19: 21:40:00 - 21:50:00	0.04		6.47	0.02	3.83	0.08
18/11/19: 21:50:00 - 22:00:00	0.05		5.98	0.02	3.72	0.12
18/11/19: 22:00:00 - 22:10:00	0.04		5.92	0.02	4.03	0.06
18/11/19: 22:10:00 - 22:20:00	0.04		6.00	0.03	3.92	0.08
18/11/19: 22:20:00 - 22:30:00	0.04		6.03	0.03	3.82	0.08
18/11/19: 22:30:00 - 22:40:00	0.04		5.63	0.02	3.50	0.09
18/11/19: 22:40:00 - 22:50:00	0.05		8.23	0.03	4.81	0.10
18/11/19: 22:50:00 - 23:00:00	0.04		5.39	0.02	3.65	0.07
18/11/19: 23:00:00 - 23:10:00	0.08		5.91	0.06	5.28	0.12
18/11/19: 23:10:00 - 23:20:00	0.05		5.58	0.03	3.90	0.11
18/11/19: 23:20:00 - 23:30:00	0.06		5.78	0.03	3.89	0.09
18/11/19: 23:30:00 - 23:40:00	0.05		6.23	0.03	4.08	0.08
18/11/19: 23:40:00 - 23:50:00	0.05		6.01	0.03	4.20	0.08
18/11/19: 23:50:00 - 00:00:00	0.05		5.58	0.03	3.65	0.10
19/11/19: 00:00:00 - 00:10:00	0.04		5.70	0.03	3.81	0.08
19/11/19: 00:10:00 - 00:20:00	0.05		6.52	0.03	4.15	0.10
19/11/19: 00:20:00 - 00:30:00	0.04		5.90	0.03	3.89	0.07
19/11/19: 00:30:00 - 00:40:00	0.05		5.53	0.03	3.65	0.09
19/11/19: 00:40:00 - 00:50:00	0.05		6.82	0.03	4.21	0.10

19/11/19: 00:50:00 - 01:00:00	0.05	5.17	0.03	3.57	0.09	10.5
19/11/19: 01:00:00 - 01:10:00	0.05	5.78	0.03	3.89	0.07	11
19/11/19: 01:10:00 - 01:20:00	0.05	5.42	0.03	3.79	0.09	13.5
19/11/19: 01:20:00 - 01:30:00	0.05	5.77	0.03	3.81	0.08	12
19/11/19: 01:30:00 - 01:40:00	0.05	6.05	0.03	4.03	0.07	14
19/11/19: 01:40:00 - 01:50:00	0.05	5.54	0.03	3.53	0.10	12.5
19/11/19: 01:50:00 - 02:00:00	0.05	4.69	0.03	3.96	0.08	13.5
19/11/19: 02:00:00 - 02:10:00	0.05	5.37	0.03	3.64	0.08	15
19/11/19: 02:10:00 - 02:20:00	0.06	6.26	0.03	4.17	0.10	14
19/11/19: 02:20:00 - 02:30:00	0.06	6.43	0.04	4.17	0.10	15.5
19/11/19: 02:30:00 - 02:40:00	0.05	5.66	0.03	4.12	0.09	12.5
19/11/19: 02:40:00 - 02:50:00	0.06	6.23	0.04	4.28	0.09	13
19/11/19: 02:50:00 - 03:00:00	0.06	5.44	0.03	4.24	0.11	17.5
19/11/19: 03:00:00 - 03:10:00	0.06	6.45	0.04	4.17	0.10	12.5
19/11/19: 03:10:00 - 03:20:00	0.06	5.67	0.04	4.21	0.08	14.5
19/11/19: 03:20:00 - 03:30:00	0.07	5.47	0.04	4.30	0.12	11.5
19/11/19: 03:30:00 - 03:40:00	0.06	4.63	0.04	3.98	0.11	11.5
19/11/19: 03:40:00 - 03:50:00	0.08	4.96	0.05	4.08	0.11	10.5
19/11/19: 03:50:00 - 04:00:00	0.08	5.02	0.05	4.44	0.13	9.5
19/11/19: 04:00:00 - 04:10:00	0.09	5.38	0.06	4.70	0.15	11
19/11/19: 04:10:00 - 04:20:00	0.10	4.98	0.06	4.24	0.16	8.5
19/11/19: 04:20:00 - 04:30:00	0.09	5.12	0.06	4.53	0.17	11.5
19/11/19: 04:30:00 - 04:40:00	0.10	5.12	0.07	4.79	0.16	11
19/11/19: 04:40:00 - 04:50:00	0.13	5.07	0.08	4.64	0.23	10.5
19/11/19: 04:50:00 - 05:00:00	0.15	5.56	0.09	4.98	0.29	9.5
19/11/19: 05:00:00 - 05:10:00	0.14	5.71	0.08	5.06	0.23	11.5
19/11/19: 05:10:00 - 05:20:00	0.13	5.65	0.08	5.07	0.22	11
19/11/19: 05:20:00 - 05:30:00	0.15	5.35	0.09	4.88	0.28	8.5
19/11/19: 05:30:00 - 05:40:00	0.19	5.82	0.12	5.43	0.31	9.5
19/11/19: 05:40:00 - 05:50:00	0.17	5.72	0.11	5.24	0.24	10.5
19/11/19: 05:50:00 - 06:00:00	0.19	5.86	0.12	5.35	0.31	9
19/11/19: 06:00:00 - 06:10:00	0.22	5.85	0.14	5.40	0.29	8.5
19/11/19: 06:10:00 - 06:20:00	0.20	5.54	0.12	5.00	0.29	9.5
19/11/19: 06:20:00 - 06:30:00	0.23	5.90	0.14	5.45	0.33	15
19/11/19: 06:30:00 - 06:40:00	0.25	5.87	0.14	5.23	0.37	8
19/11/19: 06:40:00 - 06:50:00	0.34	5.93	0.21	5.69	0.48	9
19/11/19: 06:50:00 - 07:00:00	0.33	5.99	0.22	5.81	0.47	10
19/11/19: 07:00:00 - 07:10:00	0.36	5.89	0.23	5.85	0.52	8.5
19/11/19: 07:10:00 - 07:20:00	0.33	6.01	0.21	5.77	0.54	8.5
19/11/19: 07:20:00 - 07:30:00	0.39	6.01	0.24	5.63	0.64	8
19/11/19: 07:30:00 - 07:40:00	0.39	6.03	0.24	5.83	0.69	9.5
19/11/19: 07:40:00 - 07:50:00	0.45	5.93	0.28	5.76	0.66	9.5
19/11/19: 07:50:00 - 08:00:00	0.36	6.11	0.22	5.50	0.53	8
19/11/19: 08:00:00 - 08:10:00	0.37	5.97	0.23	5.70	0.61	9.5
19/11/19: 08:10:00 - 08:20:00	0.45	6.18	0.29	6.03	0.86	8.5
19/11/19: 08:20:00 - 08:30:00	0.43	6.09	0.27	5.58	0.59	8.5
19/11/19: 08:30:00 - 08:40:00	0.53	6.17	0.34	5.99	0.78	8.5
19/11/19: 08:40:00 - 08:50:00	0.47	6.31	0.26	5.65	0.77	9
19/11/19: 08:50:00 - 09:00:00	0.53	6.17	0.35	6.16	0.90	9
19/11/19: 09:00:00 - 09:10:00	0.50	6.41	0.31	6.08	0.76	9
19/11/19: 09:10:00 - 09:20:00	0.36	6.22	0.24	5.80	0.55	8.5
19/11/19: 09:20:00 - 09:30:00	0.37	6.09	0.24	5.91	0.53	8.5
19/11/19: 09:30:00 - 09:40:00	0.36	6.17	0.23	5.91	0.58	9.5
19/11/19: 09:40:00 - 09:50:00	0.35	6.19	0.21	5.66	0.54	9.5
19/11/19: 09:50:00 - 10:00:00	0.37	5.94	0.24	5.93	0.56	10
19/11/19: 10:00:00 - 10:10:00	0.41	6.21	0.26	5.81	0.62	8.5
19/11/19: 10:10:00 - 10:20:00	0.40	6.18	0.27	5.94	0.63	8.5
19/11/19: 10:20:00 - 10:30:00	0.42	5.94	0.27	5.85	0.67	8
19/11/19: 10:30:00 - 10:40:00	0.43	6.02	0.29	5.92	0.63	8.5
19/11/19: 10:40:00 - 10:50:00	0.48	5.94	0.30	5.85	0.70	11
19/11/19: 10:50:00 - 11:00:00	0.50	6.29	0.31	5.89	0.72	8.5
19/11/19: 11:00:00 - 11:10:00	0.48	6.11	0.31	6.03	0.77	8.5
19/11/19: 11:10:00 - 11:20:00	0.38	6.23	0.24	5.97	0.61	11
19/11/19: 11:20:00 - 11:30:00	0.54	6.20	0.32	5.85	0.70	8
19/11/19: 11:30:00 - 11:40:00	0.49	6.17	0.31	5.96	0.73	8.5
19/11/19: 11:40:00 - 11:50:00	0.48	5.98	0.32	6.07	0.61	11
19/11/19: 11:50:00 - 12:00:00	0.42	6.28	0.27	6.17	0.71	9
19/11/19: 12:00:00 - 12:10:00	0.44	6.13	0.29	5.74	0.70	8.5
19/11/19: 12:10:00 - 12:20:00	0.40	6.03	0.26	5.85	0.59	11
19/11/19: 12:20:00 - 12:30:00	0.45	6.06	0.30	6.27	0.75	11

19/11/19: 12:30:00 - 12:40:00	0.48	6.25	0.29	6.06	0.80	9
19/11/19: 12:40:00 - 12:50:00	0.49	6.15	0.31	6.30	0.78	10
19/11/19: 12:50:00 - 13:00:00	0.41	6.20	0.26	5.96	0.61	9
19/11/19: 13:00:00 - 13:10:00	0.41	6.45	0.26	6.17	0.68	10
19/11/19: 13:10:00 - 13:20:00	0.50	6.44	0.31	6.07	0.85	11.5
19/11/19: 13:20:00 - 13:30:00	0.47	6.34	0.31	6.34	0.67	9.5
19/11/19: 13:30:00 - 13:40:00	0.43	6.68	0.27	6.23	0.59	10.5
19/11/19: 13:40:00 - 13:50:00	0.48	6.69	0.28	6.30	0.78	10
19/11/19: 13:50:00 - 14:00:00	0.48	7.15	0.30	6.47	0.76	10.5
19/11/19: 14:00:00 - 14:10:00	0.40	6.70	0.25	6.17	0.60	10
19/11/19: 14:10:00 - 14:20:00	0.50	7.03	0.33	6.82	0.78	10.5
19/11/19: 14:20:00 - 14:30:00	0.43	7.10	0.27	6.46	0.57	10.5
19/11/19: 14:30:00 - 14:40:00	0.46	7.00	0.27	6.36	0.66	11
19/11/19: 14:40:00 - 14:50:00	0.52	7.32	0.32	7.02	0.76	10
19/11/19: 14:50:00 - 15:00:00	0.55	7.03	0.33	6.42	0.85	10.5
19/11/19: 15:00:00 - 15:10:00	0.47	6.97	0.30	6.57	0.79	10.5
19/11/19: 15:10:00 - 15:20:00	0.56	7.25	0.35	7.05	0.79	11
19/11/19: 15:20:00 - 15:30:00	0.55	7.23	0.32	7.04	0.91	13
19/11/19: 15:30:00 - 15:40:00	0.50	7.31	0.32	7.18	0.71	12
19/11/19: 15:40:00 - 15:50:00	0.39	7.38	0.24	6.59	0.51	11.5
19/11/19: 15:50:00 - 16:00:00	0.51	7.40	0.33	6.87	0.74	10
19/11/19: 16:00:00 - 16:10:00	0.52	7.46	0.35	7.42	0.76	11
19/11/19: 16:10:00 - 16:20:00	0.48	7.75	0.27	6.87	0.83	11.5
19/11/19: 16:20:00 - 16:30:00	0.56	7.81	0.36	7.31	0.84	10.5
19/11/19: 16:30:00 - 16:40:00	0.50	7.83	0.31	7.27	0.85	11
19/11/19: 16:40:00 - 16:50:00	0.46	7.54	0.29	7.05	0.70	13.5
19/11/19: 16:50:00 - 17:00:00	0.44	7.41	0.26	6.83	0.59	12.5
19/11/19: 17:00:00 - 17:10:00	0.43	7.56	0.28	7.43	0.60	18
19/11/19: 17:10:00 - 17:20:00	0.39	7.98	0.25	6.94	0.65	11.5
19/11/19: 17:20:00 - 17:30:00	0.55	7.75	0.32	6.87	0.93	12
19/11/19: 17:30:00 - 17:40:00	0.43	7.96	0.29	7.32	0.71	12
19/11/19: 17:40:00 - 17:50:00	0.38	8.74	0.24	7.92	0.60	18
19/11/19: 17:50:00 - 18:00:00	0.40	7.87	0.26	7.50	0.74	15.5
19/11/19: 18:00:00 - 18:10:00	0.35	8.22	0.22	7.65	0.45	24
19/11/19: 18:10:00 - 18:20:00	0.37	7.73	0.22	6.56	0.58	13.5
19/11/19: 18:20:00 - 18:30:00	0.38	7.31	0.23	6.26	0.56	12.5
19/11/19: 18:30:00 - 18:40:00	0.38	8.00	0.24	7.15	0.53	13
19/11/19: 18:40:00 - 18:50:00	0.42	7.80	0.29	7.27	0.65	11
19/11/19: 18:50:00 - 19:00:00	0.38	7.79	0.25	7.07	0.55	12
19/11/19: 19:00:00 - 19:10:00	0.42	7.83	0.27	7.28	0.74	18
19/11/19: 19:10:00 - 19:20:00	0.39	8.85	0.26	7.67	0.56	20.5
19/11/19: 19:20:00 - 19:30:00	0.42	7.82	0.26	7.03	0.70	12.5
19/11/19: 19:30:00 - 19:40:00	0.40	7.76	0.26	7.25	0.59	15.5
19/11/19: 19:40:00 - 19:50:00	0.38	8.38	0.24	7.53	0.51	16.5
19/11/19: 19:50:00 - 20:00:00	0.35	8.43	0.22	7.18	0.55	17.5
19/11/19: 20:00:00 - 20:10:00	0.39	9.10	0.26	7.71	0.49	19
19/11/19: 20:10:00 - 20:20:00	0.37	7.87	0.25	7.16	0.54	18.5
19/11/19: 20:20:00 - 20:30:00	0.40	9.20	0.25	7.88	0.60	22.5
19/11/19: 20:30:00 - 20:40:00	0.39	8.02	0.24	7.13	0.55	16.5
19/11/19: 20:40:00 - 20:50:00	0.37	9.03	0.23	6.77	0.57	19.5
19/11/19: 20:50:00 - 21:00:00	0.38	9.56	0.25	7.57	0.59	17.5
19/11/19: 21:00:00 - 21:10:00	0.40	7.55	0.26	7.03	0.62	13
19/11/19: 21:10:00 - 21:20:00	0.42	8.63	0.27	7.33	0.55	15.5
19/11/19: 21:20:00 - 21:30:00	0.44	7.95	0.29	7.01	0.61	14
19/11/19: 21:30:00 - 21:40:00	0.46	8.06	0.30	7.22	0.62	22.5
19/11/19: 21:40:00 - 21:50:00	0.42	8.13	0.27	7.38	0.63	16.5
19/11/19: 21:50:00 - 22:00:00	0.45	8.30	0.27	6.95	0.69	18.5
19/11/19: 22:00:00 - 22:10:00	0.45	8.65	0.30	7.55	0.67	17.5
19/11/19: 22:10:00 - 22:20:00	0.39	8.46	0.26	6.93	0.57	16.5
19/11/19: 22:20:00 - 22:30:00	0.44	7.88	0.30	7.50	0.69	17
19/11/19: 22:30:00 - 22:40:00	0.50	7.66	0.33	6.95	0.77	14.5
19/11/19: 22:40:00 - 22:50:00	0.48	9.02	0.30	7.23	0.76	18.5
19/11/19: 22:50:00 - 23:00:00	0.48	7.55	0.32	7.04	0.72	19
19/11/19: 23:00:00 - 23:10:00	0.53	8.37	0.37	7.58	0.67	15.5
19/11/19: 23:10:00 - 23:20:00	0.62	7.58	0.40	7.63	1.02	23
19/11/19: 23:20:00 - 23:30:00	0.67	7.19	0.41	6.73	0.98	17.5
19/11/19: 23:30:00 - 23:40:00	0.61	8.35	0.41	7.37	0.86	20.5
19/11/19: 23:40:00 - 23:50:00	0.53	6.98	0.35	7.08	0.75	16.5
19/11/19: 23:50:00 - 00:00:00	0.51	7.07	0.32	6.62	0.90	17
20/11/19: 00:00:00 - 00:10:00	0.58	7.46	0.37	7.39	0.91	17.5

20/11/19: 00:10:00 - 00:20:00	0.60	7.41	0.38	6.69	0.87	11
20/11/19: 00:20:00 - 00:30:00	0.59	7.21	0.38	7.00	0.95	13
20/11/19: 00:30:00 - 00:40:00	0.58	7.20	0.39	7.02	0.76	18
20/11/19: 00:40:00 - 00:50:00	0.68	6.94	0.44	7.35	1.03	18.5
20/11/19: 00:50:00 - 01:00:00	0.58	7.26	0.38	6.82	0.83	15.5
20/11/19: 01:00:00 - 01:10:00	0.58	7.56	0.37	7.40	0.78	17.5
20/11/19: 01:10:00 - 01:20:00	0.65	7.19	0.41	7.37	0.95	18.5
20/11/19: 01:20:00 - 01:30:00	0.64	7.52	0.42	7.04	0.88	20
20/11/19: 01:30:00 - 01:40:00	0.61	7.69	0.40	7.24	0.82	17.5
20/11/19: 01:40:00 - 01:50:00	0.69	7.18	0.39	6.54	1.01	15.5
20/11/19: 01:50:00 - 02:00:00	0.62	7.28	0.41	6.74	0.98	16
20/11/19: 02:00:00 - 02:10:00	0.55	6.98	0.35	6.78	0.81	12.5
20/11/19: 02:10:00 - 02:20:00	0.71	7.33	0.47	7.19	1.15	13
20/11/19: 02:20:00 - 02:30:00	0.63	7.20	0.41	6.98	0.88	17
20/11/19: 02:30:00 - 02:40:00	0.73	7.59	0.48	7.04	1.07	17
20/11/19: 02:40:00 - 02:50:00	0.71	7.20	0.46	6.90	0.95	17
20/11/19: 02:50:00 - 03:00:00	0.76	7.23	0.53	6.94	1.13	10
20/11/19: 03:00:00 - 03:10:00	0.71	7.35	0.47	7.27	1.10	15.5
20/11/19: 03:10:00 - 03:20:00	0.72	7.21	0.47	6.87	1.16	11.5
20/11/19: 03:20:00 - 03:30:00	0.76	7.46	0.50	7.13	1.08	12
20/11/19: 03:30:00 - 03:40:00	0.76	6.95	0.50	6.78	1.21	11
20/11/19: 03:40:00 - 03:50:00	0.81	7.15	0.51	6.56	1.16	11.5
20/11/19: 03:50:00 - 04:00:00	0.94	7.12	0.60	6.73	1.54	11.5
20/11/19: 04:00:00 - 04:10:00	0.90	7.21	0.58	6.88	1.48	10.5
20/11/19: 04:10:00 - 04:20:00	0.98	7.72	0.62	7.21	1.53	17.5
20/11/19: 04:20:00 - 04:30:00	1.02	7.29	0.63	6.80	1.59	13
20/11/19: 04:30:00 - 04:40:00	0.94	7.50	0.61	7.58	1.31	13
20/11/19: 04:40:00 - 04:50:00	0.94	7.46	0.57	7.09	1.48	12.5
20/11/19: 04:50:00 - 05:00:00	1.12	7.46	0.69	7.58	1.55	12.5
20/11/19: 05:00:00 - 05:10:00	0.90	7.64	0.57	6.97	1.28	11.5
20/11/19: 05:10:00 - 05:20:00	0.98	7.60	0.63	7.43	1.31	18
20/11/19: 05:20:00 - 05:30:00	0.93	7.22	0.58	7.37	1.51	14
20/11/19: 05:30:00 - 05:40:00	1.00	7.92	0.66	7.51	1.65	11
20/11/19: 05:40:00 - 05:50:00	1.07	7.82	0.72	7.73	1.58	11.5
20/11/19: 05:50:00 - 06:00:00	1.02	7.52	0.67	7.52	1.52	11.5
20/11/19: 06:00:00 - 06:10:00	0.88	8.04	0.56	7.51	1.49	13
20/11/19: 06:10:00 - 06:20:00	0.90	7.57	0.61	7.16	1.21	11.5
20/11/19: 06:20:00 - 06:30:00	0.99	8.35	0.64	7.56	1.32	16.5
20/11/19: 06:30:00 - 06:40:00	1.02	7.46	0.64	7.13	1.52	10.5
20/11/19: 06:40:00 - 06:50:00	0.97	7.57	0.63	7.34	1.39	11
20/11/19: 06:50:00 - 07:00:00	0.79	7.91	0.50	7.15	1.11	12
20/11/19: 07:00:00 - 07:10:00	1.00	7.48	0.66	7.41	1.51	12
20/11/19: 07:10:00 - 07:20:00	1.29	7.74	0.82	7.64	1.91	11
20/11/19: 07:20:00 - 07:30:00	1.16	7.62	0.74	7.46	1.51	13.5
20/11/19: 07:30:00 - 07:40:00	1.09	7.37	0.69	7.20	1.51	10.5
20/11/19: 07:40:00 - 07:50:00	1.11	7.26	0.72	7.30	1.78	12.5
20/11/19: 07:50:00 - 08:00:00	1.10	7.35	0.72	7.19	1.74	12
20/11/19: 08:00:00 - 08:10:00	1.29	7.56	0.87	7.84	1.68	13
20/11/19: 08:10:00 - 08:20:00	0.92	7.57	0.62	7.22	1.24	11
20/11/19: 08:20:00 - 08:30:00	0.99	7.67	0.62	7.20	1.51	14
20/11/19: 08:30:00 - 08:40:00	1.06	7.48	0.67	7.38	1.74	12.5
20/11/19: 08:40:00 - 08:50:00	1.01	7.44	0.66	7.52	1.35	15.5
20/11/19: 08:50:00 - 09:00:00	0.97	7.31	0.65	7.38	1.31	16.5
20/11/19: 09:00:00 - 09:10:00	0.98	7.61	0.64	7.19	1.24	11.5
20/11/19: 09:10:00 - 09:20:00	1.03	7.63	0.67	7.40	1.39	17
20/11/19: 09:20:00 - 09:30:00	0.99	7.74	0.66	7.71	1.68	11.5
20/11/19: 09:30:00 - 09:40:00	1.20	7.66	0.83	7.76	1.54	10.5
20/11/19: 09:40:00 - 09:50:00	1.08	7.28	0.67	7.37	1.49	14
20/11/19: 09:50:00 - 10:00:00	0.94	7.63	0.62	7.05	1.18	12.5
20/11/19: 10:00:00 - 10:10:00	1.04	7.70	0.63	7.13	1.63	15
20/11/19: 10:10:00 - 10:20:00	0.85	7.87	0.58	7.58	1.23	16
20/11/19: 10:20:00 - 10:30:00	0.95	7.59	0.60	7.16	1.50	14
20/11/19: 10:30:00 - 10:40:00	0.88	7.61	0.59	7.17	1.47	12
20/11/19: 10:40:00 - 10:50:00	1.03	7.63	0.64	7.44	1.78	12.5
20/11/19: 10:50:00 - 11:00:00	0.87	7.37	0.59	7.31	1.30	11
20/11/19: 11:00:00 - 11:10:00	0.83	7.33	0.53	7.13	1.13	17
20/11/19: 11:10:00 - 11:20:00	0.82	7.27	0.54	7.05	1.48	12
20/11/19: 11:20:00 - 11:30:00	0.90	7.26	0.59	6.79	1.39	11.5
20/11/19: 11:30:00 - 11:40:00	1.10	7.59	0.72	7.27	1.54	14.5
20/11/19: 11:40:00 - 11:50:00	0.99	7.36	0.61	7.01	1.44	11

20/11/19: 11:50:00 - 12:00:00	1.08	7.56	0.70	7.13	1.76	10
20/11/19: 12:00:00 - 12:10:00	0.88	7.48	0.55	7.03	1.21	11.5
20/11/19: 12:10:00 - 12:20:00	0.90	7.44	0.61	7.24	1.19	11
20/11/19: 12:20:00 - 12:30:00	0.93	7.19	0.60	6.86	1.41	12
20/11/19: 12:30:00 - 12:40:00	0.87	7.66	0.58	7.78	1.12	14.5
20/11/19: 12:40:00 - 12:50:00	0.88	7.57	0.57	6.80	1.20	10.5
20/11/19: 12:50:00 - 13:00:00	1.11	7.90	0.74	7.69	1.48	11.5
20/11/19: 13:00:00 - 13:10:00	0.91	7.35	0.61	7.11	1.24	13
20/11/19: 13:10:00 - 13:20:00	0.89	7.50	0.58	7.32	1.27	10
20/11/19: 13:20:00 - 13:30:00	1.01	7.59	0.64	7.05	1.53	10
20/11/19: 13:30:00 - 13:40:00	1.02	8.06	0.62	7.56	1.88	13
20/11/19: 13:40:00 - 13:50:00	1.00	7.46	0.66	7.31	1.55	10
20/11/19: 13:50:00 - 14:00:00	0.96	7.38	0.59	6.81	1.21	11
20/11/19: 14:00:00 - 14:10:00	0.93	7.63	0.63	7.38	1.17	11
20/11/19: 14:10:00 - 14:20:00	0.83	7.66	0.50	6.87	1.62	10.5
20/11/19: 14:20:00 - 14:30:00	0.95	7.79	0.64	7.44	1.33	10.5
20/11/19: 14:30:00 - 14:40:00	0.95	7.63	0.65	7.56	1.32	11
20/11/19: 14:40:00 - 14:50:00	0.92	7.20	0.61	7.27	1.38	13.5
20/11/19: 14:50:00 - 15:00:00	0.93	7.42	0.61	7.58	1.34	12
20/11/19: 15:00:00 - 15:10:00	0.93	7.69	0.59	7.29	1.28	10
20/11/19: 15:10:00 - 15:20:00	0.94	7.39	0.58	7.29	1.29	11
20/11/19: 15:20:00 - 15:30:00	0.87	7.36	0.55	6.79	1.29	11.5
20/11/19: 15:30:00 - 15:40:00	0.80	7.09	0.52	7.03	1.24	10.5
20/11/19: 15:40:00 - 15:50:00	0.85	7.50	0.54	7.19	1.33	11
20/11/19: 15:50:00 - 16:00:00	0.71	7.83	0.50	7.60	0.97	11
20/11/19: 16:00:00 - 16:10:00	0.91	7.40	0.57	6.80	1.42	11
20/11/19: 16:10:00 - 16:20:00	0.94	7.59	0.58	7.25	1.36	11
20/11/19: 16:20:00 - 16:30:00	0.79	7.42	0.52	7.43	1.17	12
20/11/19: 16:30:00 - 16:40:00	0.83	7.20	0.56	7.39	1.11	11.5
20/11/19: 16:40:00 - 16:50:00	0.81	7.46	0.54	7.18	1.33	10.5
20/11/19: 16:50:00 - 17:00:00	0.91	7.43	0.60	7.35	1.57	12
20/11/19: 17:00:00 - 17:10:00	0.91	7.71	0.57	7.48	1.19	11.5
20/11/19: 17:10:00 - 17:20:00	0.91	7.85	0.61	7.59	1.17	12.5
20/11/19: 17:20:00 - 17:30:00	0.88	7.35	0.56	7.19	1.26	12
20/11/19: 17:30:00 - 17:40:00	0.81	7.69	0.53	7.47	1.19	11.5
20/11/19: 17:40:00 - 17:50:00	0.84	7.40	0.56	7.37	1.19	12
20/11/19: 17:50:00 - 18:00:00	0.99	7.39	0.69	7.28	1.32	10
20/11/19: 18:00:00 - 18:10:00	0.89	7.44	0.55	7.49	1.32	13
20/11/19: 18:10:00 - 18:20:00	1.01	7.46	0.62	7.14	1.52	11.5
20/11/19: 18:20:00 - 18:30:00	0.89	7.46	0.58	7.11	1.56	12.5
20/11/19: 18:30:00 - 18:40:00	0.83	7.56	0.59	7.22	1.37	11
20/11/19: 18:40:00 - 18:50:00	0.82	7.18	0.55	7.08	1.18	11.5
20/11/19: 18:50:00 - 19:00:00	0.94	6.98	0.62	6.96	1.42	11
20/11/19: 19:00:00 - 19:10:00	0.93	7.68	0.59	7.12	1.31	13
20/11/19: 19:10:00 - 19:20:00	0.95	7.41	0.61	7.07	1.38	11
20/11/19: 19:20:00 - 19:30:00	0.92	7.38	0.59	7.02	1.26	17
20/11/19: 19:30:00 - 19:40:00	0.96	7.07	0.61	6.82	1.37	13.5
20/11/19: 19:40:00 - 19:50:00	0.82	7.34	0.55	6.98	1.25	11
20/11/19: 19:50:00 - 20:00:00	1.08	7.41	0.67	7.08	1.48	10.5
20/11/19: 20:00:00 - 20:10:00	0.95	7.14	0.63	6.88	1.29	10
20/11/19: 20:10:00 - 20:20:00	0.84	7.44	0.58	7.24	1.37	11.5
20/11/19: 20:20:00 - 20:30:00	1.07	7.54	0.67	7.27	1.44	11
20/11/19: 20:30:00 - 20:40:00	1.08	7.00	0.72	7.00	1.57	14
20/11/19: 20:40:00 - 20:50:00	1.09	7.54	0.65	7.05	1.66	11
20/11/19: 20:50:00 - 21:00:00	1.12	7.39	0.70	7.00	1.41	10.5
20/11/19: 21:00:00 - 21:10:00	1.12	7.77	0.77	6.98	1.62	11.5
20/11/19: 21:10:00 - 21:20:00	1.09	7.25	0.73	6.99	1.43	10.5
20/11/19: 21:20:00 - 21:30:00	1.10	7.21	0.77	6.91	1.40	10.5
20/11/19: 21:30:00 - 21:40:00	1.18	7.38	0.77	7.09	1.87	10.5
20/11/19: 21:40:00 - 21:50:00	1.17	7.29	0.72	6.94	1.94	12.5
20/11/19: 21:50:00 - 22:00:00	1.11	7.72	0.75	7.10	1.60	12
20/11/19: 22:00:00 - 22:10:00	1.19	7.19	0.75	6.81	1.63	10
20/11/19: 22:10:00 - 22:20:00	1.18	7.19	0.76	6.79	1.67	9.5
20/11/19: 22:20:00 - 22:30:00	1.17	7.16	0.75	6.92	1.98	11.5
20/11/19: 22:30:00 - 22:40:00	1.27	7.05	0.86	6.97	1.86	10
20/11/19: 22:40:00 - 22:50:00	1.05	7.59	0.71	7.02	1.38	11
20/11/19: 22:50:00 - 23:00:00	1.02	6.91	0.69	6.76	1.75	10.5
20/11/19: 23:00:00 - 23:10:00	0.94	7.05	0.66	6.67	1.16	11
20/11/19: 23:10:00 - 23:20:00	1.10	7.21	0.71	6.99	1.36	10
20/11/19: 23:20:00 - 23:30:00	1.04	7.31	0.63	6.66	1.47	11

20/11/19: 23:30:00 - 23:40:00	1.06	7.10	0.67	6.53	1.45	12.5
20/11/19: 23:40:00 - 23:50:00	1.08	7.27	0.71	7.04	1.47	9.5
20/11/19: 23:50:00 - 00:00:00	0.91	6.88	0.60	6.76	1.32	12
21/11/19: 00:00:00 - 00:10:00	0.863	7.071	0.602	7.023	1.164	11
21/11/19: 00:10:00 - 00:20:00	1.044	6.817	0.686	6.599	1.421	9.5
21/11/19: 00:20:00 - 00:30:00	0.871	6.817	0.539	6.588	1.532	11.5
21/11/19: 00:30:00 - 00:40:00	0.777	6.800	0.513	6.582	1.222	10
21/11/19: 00:40:00 - 00:50:00	0.925	7.276	0.588	6.818	1.410	11
21/11/19: 00:50:00 - 01:00:00	0.891	6.900	0.564	6.604	1.342	11
21/11/19: 01:00:00 - 01:10:00	0.904	6.833	0.600	6.511	1.251	10.5
21/11/19: 01:10:00 - 01:20:00	0.707	7.067	0.444	6.505	1.101	11.5
21/11/19: 01:20:00 - 01:30:00	0.798	6.855	0.499	6.362	1.306	11.5
21/11/19: 01:30:00 - 01:40:00	0.932	6.776	0.611	6.781	1.454	10
21/11/19: 01:40:00 - 01:50:00	0.829	6.950	0.532	6.577	1.110	11
21/11/19: 01:50:00 - 02:00:00	0.830	6.532	0.548	6.394	1.104	11
21/11/19: 02:00:00 - 02:10:00	0.934	6.650	0.599	6.582	1.260	9.5
21/11/19: 02:10:00 - 02:20:00	0.768	6.950	0.487	6.571	1.347	10
21/11/19: 02:20:00 - 02:30:00	0.699	6.500	0.460	6.399	0.969	10.5
21/11/19: 02:30:00 - 02:40:00	0.902	6.717	0.555	6.554	1.491	11.5
21/11/19: 02:40:00 - 02:50:00	0.784	6.967	0.524	6.511	1.376	10.5
21/11/19: 02:50:00 - 03:00:00	0.752	6.650	0.505	6.577	1.356	10.5
21/11/19: 03:00:00 - 03:10:00	0.858	7.052	0.522	6.750	1.633	10.5
21/11/19: 03:10:00 - 03:20:00	0.716	6.677	0.467	6.400	1.222	10.5
21/11/19: 03:20:00 - 03:30:00	0.682	6.656	0.422	6.175	1.005	10.5
21/11/19: 03:30:00 - 03:40:00	0.801	6.914	0.517	6.702	1.200	9.5
21/11/19: 03:40:00 - 03:50:00	0.680	6.933	0.440	6.533	1.103	11
21/11/19: 03:50:00 - 04:00:00	0.754	6.793	0.518	6.747	1.034	10
21/11/19: 04:00:00 - 04:10:00	0.787	6.741	0.481	6.700	1.179	13
21/11/19: 04:10:00 - 04:20:00	0.781	6.964	0.499	7.035	1.340	14.5
21/11/19: 04:20:00 - 04:30:00	0.678	6.750	0.447	6.604	0.918	9.5
21/11/19: 04:30:00 - 04:40:00	0.679	7.214	0.433	6.874	1.050	12
21/11/19: 04:40:00 - 04:50:00	0.757	6.914	0.511	6.847	1.056	10
21/11/19: 04:50:00 - 05:00:00	0.749	7.018	0.496	6.942	1.120	10
21/11/19: 05:00:00 - 05:10:00	0.723	6.931	0.471	6.742	1.058	12.5
21/11/19: 05:10:00 - 05:20:00	0.721	6.983	0.440	6.678	1.064	10
21/11/19: 05:20:00 - 05:30:00	0.727	6.804	0.469	6.874	1.110	12.5
21/11/19: 05:30:00 - 05:40:00	0.671	7.017	0.433	6.576	1.050	13.5
21/11/19: 05:40:00 - 05:50:00	0.674	6.948	0.449	6.633	0.919	10
21/11/19: 05:50:00 - 06:00:00	0.769	6.817	0.481	6.533	1.533	10
21/11/19: 06:00:00 - 06:10:00	0.768	6.776	0.508	6.770	1.204	12
21/11/19: 06:10:00 - 06:20:00	0.742	6.914	0.475	6.818	1.552	12.5
21/11/19: 06:20:00 - 06:30:00	0.850	7.000	0.545	7.071	1.381	11
21/11/19: 06:30:00 - 06:40:00	0.859	7.148	0.558	7.390	1.258	11
21/11/19: 06:40:00 - 06:50:00	0.780	7.054	0.498	6.874	1.153	11
21/11/19: 06:50:00 - 07:00:00	0.782	7.155	0.492	6.790	1.234	14
21/11/19: 07:00:00 - 07:10:00	0.761	7.018	0.512	7.047	1.183	11
21/11/19: 07:10:00 - 07:20:00	0.764	7.017	0.510	6.792	1.318	10
21/11/19: 07:20:00 - 07:30:00	0.884	7.204	0.574	7.089	1.181	12.5
21/11/19: 07:30:00 - 07:40:00	0.710	7.017	0.427	6.462	1.066	13
21/11/19: 07:40:00 - 07:50:00	0.709	7.069	0.457	6.758	1.110	11
21/11/19: 07:50:00 - 08:00:00	0.936	7.155	0.576	6.847	1.224	11.5
21/11/19: 08:00:00 - 08:10:00	0.954	7.093	0.630	7.095	1.529	13.5
21/11/19: 08:10:00 - 08:20:00	0.875	7.000	0.557	6.621	1.193	10
21/11/19: 08:20:00 - 08:30:00	0.896	6.833	0.545	6.441	1.266	12.5
21/11/19: 08:30:00 - 08:40:00	0.871	7.161	0.549	7.082	1.317	12
21/11/19: 08:40:00 - 08:50:00	0.988	6.897	0.590	6.708	1.861	11
21/11/19: 08:50:00 - 09:00:00	0.961	6.897	0.592	6.639	1.474	11
21/11/19: 09:00:00 - 09:10:00	0.785	7.071	0.496	6.988	1.120	11.5
21/11/19: 09:10:00 - 09:20:00	0.893	6.759	0.571	6.644	1.337	10
21/11/19: 09:20:00 - 09:30:00	0.940	6.759	0.628	6.881	1.636	11
21/11/19: 09:30:00 - 09:40:00	0.878	6.667	0.553	6.588	1.258	11
21/11/19: 09:40:00 - 09:50:00	0.910	6.586	0.578	6.689	1.530	10.5
21/11/19: 09:50:00 - 10:00:00	0.816	6.732	0.544	6.845	1.115	11.5
21/11/19: 10:00:00 - 10:10:00	0.892	6.867	0.506	6.516	1.369	11.5
21/11/19: 10:10:00 - 10:20:00	0.819	6.793	0.525	6.758	1.305	11
21/11/19: 10:20:00 - 10:30:00	0.847	6.719	0.538	6.227	1.187	8.5
21/11/19: 10:30:00 - 10:40:00	0.903	6.586	0.577	6.628	1.395	11.5
21/11/19: 10:40:00 - 10:50:00	1.042	7.071	0.688	6.885	1.393	12.5
21/11/19: 10:50:00 - 11:00:00	0.832	7.089	0.515	6.965	1.429	13.5
21/11/19: 11:00:00 - 11:10:00	1.012	7.000	0.638	6.648	1.714	10.5

21/11/19: 11:10:00 - 11:20:00	1.073	6.733	0.661	6.484	1.541	10
21/11/19: 11:20:00 - 11:30:00	0.980	7.050	0.629	6.554	1.642	10
21/11/19: 11:30:00 - 11:40:00	0.967	6.617	0.607	6.409	1.332	10.5
21/11/19: 11:40:00 - 11:50:00	1.000	7.017	0.618	6.700	1.473	10
21/11/19: 11:50:00 - 12:00:00	1.022	6.879	0.642	6.736	1.709	11
21/11/19: 12:00:00 - 12:10:00	1.17	7.48	0.68	6.93	1.74	17
21/11/19: 12:10:00 - 12:20:00	0.89	6.78	0.55	6.68	1.68	11
21/11/19: 12:20:00 - 12:30:00	1.11	6.96	0.69	6.89	1.51	9.5
21/11/19: 12:30:00 - 12:40:00	0.87	7.02	0.54	6.63	1.35	10.5
21/11/19: 12:40:00 - 12:50:00	1.07	7.05	0.64	6.73	1.85	10.5
21/11/19: 12:50:00 - 13:00:00	0.89	7.09	0.58	6.90	1.37	10.5
21/11/19: 13:00:00 - 13:10:00	0.85	6.95	0.54	6.58	1.22	10
21/11/19: 13:10:00 - 13:20:00	0.88	6.98	0.56	6.43	1.54	9.5
21/11/19: 13:20:00 - 13:30:00	0.91	6.86	0.57	6.73	1.36	11
21/11/19: 13:30:00 - 13:40:00	0.86	6.81	0.56	6.67	1.19	10
21/11/19: 13:40:00 - 13:50:00	0.92	6.68	0.58	6.56	1.22	10
21/11/19: 13:50:00 - 14:00:00	0.78	7.10	0.52	6.81	1.18	13
21/11/19: 14:00:00 - 14:10:00	0.71	7.12	0.47	6.80	1.06	11
21/11/19: 14:10:00 - 14:20:00	0.72	6.85	0.44	6.37	1.06	10.5
21/11/19: 14:20:00 - 14:30:00	0.69	7.17	0.44	6.78	1.10	10
21/11/19: 14:30:00 - 14:40:00	0.68	6.79	0.43	6.31	1.06	11
21/11/19: 14:40:00 - 14:50:00	0.78	6.84	0.50	6.67	1.15	10.5
21/11/19: 14:50:00 - 15:00:00	0.80	6.95	0.54	6.58	1.21	11
21/11/19: 15:00:00 - 15:10:00	0.68	6.98	0.43	6.50	1.01	12.5
21/11/19: 15:10:00 - 15:20:00	0.75	6.79	0.46	6.35	1.21	9
21/11/19: 15:20:00 - 15:30:00	0.80	6.86	0.49	6.86	1.09	10.5
21/11/19: 15:30:00 - 15:40:00	0.76	7.20	0.50	6.67	0.99	11
21/11/19: 15:40:00 - 15:50:00	0.76	7.02	0.47	6.73	1.05	14
21/11/19: 15:50:00 - 16:00:00	0.64	6.81	0.42	6.71	0.87	11.5
21/11/19: 16:00:00 - 16:10:00	0.72	6.93	0.48	6.75	0.96	10
21/11/19: 16:10:00 - 16:20:00	0.69	7.02	0.46	6.68	1.15	10
21/11/19: 16:20:00 - 16:30:00	0.74	7.47	0.46	6.84	1.20	10
21/11/19: 16:30:00 - 16:40:00	0.73	6.88	0.44	6.80	1.03	10
21/11/19: 16:40:00 - 16:50:00	0.65	6.93	0.42	6.76	1.01	10
21/11/19: 16:50:00 - 17:00:00	0.65	6.95	0.41	6.85	0.96	10
21/11/19: 17:00:00 - 17:10:00	0.60	6.85	0.38	6.52	0.93	9
21/11/19: 17:10:00 - 17:20:00	0.67	6.84	0.42	6.80	0.96	10.5
21/11/19: 17:20:00 - 17:30:00	0.63	7.00	0.39	6.71	0.83	10.5
21/11/19: 17:30:00 - 17:40:00	0.60	7.10	0.38	6.44	1.03	9.5
21/11/19: 17:40:00 - 17:50:00	0.69	7.21	0.42	6.67	0.93	11.5
21/11/19: 17:50:00 - 18:00:00	0.68	7.02	0.46	6.93	0.91	12
21/11/19: 18:00:00 - 18:10:00	0.61	7.21	0.39	6.71	1.02	10.5
21/11/19: 18:10:00 - 18:20:00	0.65	6.69	0.42	6.76	0.96	11
21/11/19: 18:20:00 - 18:30:00	0.71	7.29	0.44	6.64	1.14	10.5
21/11/19: 18:30:00 - 18:40:00	0.69	7.04	0.44	6.92	1.17	10.5
21/11/19: 18:40:00 - 18:50:00	0.61	7.12	0.40	6.67	0.87	10.5
21/11/19: 18:50:00 - 19:00:00	0.52	7.10	0.33	6.64	0.79	12.5
21/11/19: 19:00:00 - 19:10:00	0.60	7.02	0.41	6.85	0.95	10.5
21/11/19: 19:10:00 - 19:20:00	0.62	6.86	0.41	6.71	0.81	10.5
21/11/19: 19:20:00 - 19:30:00	0.68	6.98	0.42	6.43	1.11	10
21/11/19: 19:30:00 - 19:40:00	0.71	6.78	0.44	6.53	1.09	10
21/11/19: 19:40:00 - 19:50:00	0.66	7.12	0.41	6.72	1.06	9.5
21/11/19: 19:50:00 - 20:00:00	0.61	7.05	0.37	6.59	1.10	10.5
21/11/19: 20:00:00 - 20:10:00	0.51	6.75	0.33	6.44	0.76	10
21/11/19: 20:10:00 - 20:20:00	0.58	6.87	0.35	6.45	0.90	11
21/11/19: 20:20:00 - 20:30:00	0.58	6.93	0.34	6.64	0.90	14.5
21/11/19: 20:30:00 - 20:40:00	0.49	6.77	0.31	6.37	0.72	11
21/11/19: 20:40:00 - 20:50:00	0.54	6.71	0.35	6.37	0.83	10.5
21/11/19: 20:50:00 - 21:00:00	0.54	6.93	0.35	6.70	0.83	11.5
21/11/19: 21:00:00 - 21:10:00	0.61	6.98	0.39	6.77	0.93	10.5
21/11/19: 21:10:00 - 21:20:00	0.62	6.97	0.38	6.28	0.94	9
21/11/19: 21:20:00 - 21:30:00	0.64	6.98	0.41	6.62	0.79	10
21/11/19: 21:30:00 - 21:40:00	0.63	7.05	0.40	6.97	0.87	11.5
21/11/19: 21:40:00 - 21:50:00	0.66	6.84	0.41	6.80	1.15	11
21/11/19: 21:50:00 - 22:00:00	0.74	7.02	0.49	6.83	1.08	10.5
21/11/19: 22:00:00 - 22:10:00	0.88	6.85	0.55	6.48	1.33	10
21/11/19: 22:10:00 - 22:20:00	0.72	6.70	0.48	6.51	1.13	11
21/11/19: 22:20:00 - 22:30:00	0.84	7.05	0.53	6.53	1.39	10.5
21/11/19: 22:30:00 - 22:40:00	0.86	6.85	0.52	6.54	1.28	11
21/11/19: 22:40:00 - 22:50:00	0.83	6.90	0.51	6.57	1.14	10.5

21/11/19: 22:50:00 - 23:00:00	1.00	6.98	0.67	7.10	1.68	17
21/11/19: 23:00:00 - 23:10:00	0.81	6.73	0.49	6.57	1.26	9.5
21/11/19: 23:10:00 - 23:20:00	0.97	6.79	0.62	6.68	1.33	9
21/11/19: 23:20:00 - 23:30:00	0.85	6.72	0.54	6.57	1.40	10
21/11/19: 23:30:00 - 23:40:00	0.93	6.71	0.59	6.66	1.47	13.5
21/11/19: 23:40:00 - 23:50:00	0.93	6.76	0.60	6.42	1.49	9
21/11/19: 23:50:00 - 00:00:00	0.90	6.81	0.60	6.66	1.24	9.5
22/11/19: 00:00:00 - 00:10:00	0.81	6.65	0.47	6.22	1.34	10
22/11/19: 00:10:00 - 00:20:00	1.00	6.75	0.64	7.01	1.59	10.5
22/11/19: 00:20:00 - 00:30:00	0.79	6.79	0.54	6.71	1.05	10
22/11/19: 00:30:00 - 00:40:00	0.86	6.61	0.55	6.43	1.55	9.5
22/11/19: 00:40:00 - 00:50:00	0.76	6.76	0.47	6.64	1.31	11
22/11/19: 00:50:00 - 01:00:00	0.79	6.24	0.49	6.34	1.04	9.5
22/11/19: 01:00:00 - 01:10:00	0.75	6.45	0.50	6.74	1.13	10.5
22/11/19: 01:10:00 - 01:20:00	0.78	6.65	0.49	6.29	1.13	10
22/11/19: 01:20:00 - 01:30:00	0.77	6.58	0.50	6.39	1.09	8.5
22/11/19: 01:30:00 - 01:40:00	0.69	6.60	0.47	6.69	0.97	11
22/11/19: 01:40:00 - 01:50:00	0.70	6.66	0.43	6.31	1.03	10.5
22/11/19: 01:50:00 - 02:00:00	0.78	6.61	0.47	6.35	1.20	9.5
22/11/19: 02:00:00 - 02:10:00	0.71	6.56	0.48	6.36	1.06	9
22/11/19: 02:10:00 - 02:20:00	0.72	6.48	0.49	6.54	1.18	9.5
22/11/19: 02:20:00 - 02:30:00	0.62	6.39	0.40	6.08	0.87	15
22/11/19: 02:30:00 - 02:40:00	0.75	6.63	0.47	6.34	1.34	10.5
22/11/19: 02:40:00 - 02:50:00	0.70	6.60	0.43	6.22	1.17	10.5
22/11/19: 02:50:00 - 03:00:00	0.63	6.70	0.36	6.43	1.04	11
22/11/19: 03:00:00 - 03:10:00	0.57	6.32	0.38	5.98	0.77	11
22/11/19: 03:10:00 - 03:20:00	0.60	6.44	0.38	6.26	1.01	9.5
22/11/19: 03:20:00 - 03:30:00	0.68	6.68	0.45	6.48	1.04	9.5
22/11/19: 03:30:00 - 03:40:00	0.70	6.53	0.47	6.50	0.95	10
22/11/19: 03:40:00 - 03:50:00	0.65	6.48	0.43	6.40	0.91	9.5
22/11/19: 03:50:00 - 04:00:00	0.54	6.24	0.35	5.96	0.69	9
22/11/19: 04:00:00 - 04:10:00	0.53	6.53	0.33	6.14	0.96	9.5
22/11/19: 04:10:00 - 04:20:00	0.56	6.47	0.36	6.21	1.00	10.5
22/11/19: 04:20:00 - 04:30:00	0.53	6.35	0.34	5.94	0.89	9
22/11/19: 04:30:00 - 04:40:00	0.52	6.55	0.32	6.10	0.76	9
22/11/19: 04:40:00 - 04:50:00	0.53	6.58	0.35	6.25	0.86	9
22/11/19: 04:50:00 - 05:00:00	0.50	6.77	0.32	6.39	0.80	9.5
22/11/19: 05:00:00 - 05:10:00	0.54	6.50	0.32	6.00	0.89	10
22/11/19: 05:10:00 - 05:20:00	0.56	6.53	0.36	6.28	0.89	9.5
22/11/19: 05:20:00 - 05:30:00	0.59	6.37	0.37	6.27	0.93	10.5
22/11/19: 05:30:00 - 05:40:00	0.58	6.65	0.37	6.35	1.02	9.5
22/11/19: 05:40:00 - 05:50:00	0.55	6.47	0.33	6.13	0.83	9
22/11/19: 05:50:00 - 06:00:00	0.48	6.53	0.31	6.32	0.77	9
22/11/19: 06:00:00 - 06:10:00	0.46	6.16	0.29	6.28	0.66	9.5
22/11/19: 06:10:00 - 06:20:00	0.45	6.61	0.26	5.87	0.68	11
22/11/19: 06:20:00 - 06:30:00	0.50	6.69	0.31	6.29	0.83	9
22/11/19: 06:30:00 - 06:40:00	0.45	6.73	0.29	6.33	0.72	10.5
22/11/19: 06:40:00 - 06:50:00	0.50	6.72	0.30	6.57	0.81	11.5
22/11/19: 06:50:00 - 07:00:00	0.45	6.45	0.29	6.44	0.66	9
22/11/19: 07:00:00 - 07:10:00	0.44	6.42	0.27	6.28	0.67	11
22/11/19: 07:10:00 - 07:20:00	0.38	6.72	0.23	6.16	0.62	9
22/11/19: 07:20:00 - 07:30:00	0.49	6.70	0.30	6.57	0.95	13.5
22/11/19: 07:30:00 - 07:40:00	0.60	6.83	0.39	6.67	0.79	9.5
22/11/19: 07:40:00 - 07:50:00	0.43	6.72	0.28	6.58	0.63	15
22/11/19: 07:50:00 - 08:00:00	0.46	6.62	0.29	6.65	0.77	10
22/11/19: 08:00:00 - 08:10:00	0.39	6.28	0.25	6.13	0.60	9
22/11/19: 08:10:00 - 08:20:00	0.44	6.52	0.27	6.31	0.62	10.5
22/11/19: 08:20:00 - 08:30:00	0.42	6.50	0.27	6.03	0.70	9
22/11/19: 08:30:00 - 08:40:00	0.48	6.60	0.32	6.29	0.65	9
22/11/19: 08:40:00 - 08:50:00	0.43	6.47	0.27	6.42	0.75	11.5
22/11/19: 08:50:00 - 09:00:00	0.45	6.56	0.29	6.16	0.70	8.5
22/11/19: 09:00:00 - 09:10:00	0.53	6.63	0.33	6.31	0.87	9
22/11/19: 09:10:00 - 09:20:00	0.47	6.47	0.30	6.25	0.66	9.5
22/11/19: 09:20:00 - 09:30:00	0.48	6.77	0.30	6.50	0.73	12.5
22/11/19: 09:30:00 - 09:40:00	0.51	6.86	0.32	6.89	0.68	14.5
22/11/19: 09:40:00 - 09:50:00	0.45	6.28	0.29	6.23	0.81	13.5
22/11/19: 09:50:00 - 10:00:00	0.56	6.69	0.36	6.34	0.83	9.5
22/11/19: 10:00:00 - 10:10:00	0.57	6.69	0.35	6.40	0.91	10
22/11/19: 10:10:00 - 10:20:00	0.64	6.63	0.40	6.32	1.02	10
22/11/19: 10:20:00 - 10:30:00	0.59	6.52	0.39	6.35	0.89	9

22/11/19: 10:30:00 - 10:40:00	0.62	6.55	0.38	6.43	0.99	9
22/11/19: 10:40:00 - 10:50:00	0.53	6.61	0.33	6.24	0.80	9.5
22/11/19: 10:50:00 - 11:00:00	0.55	6.40	0.37	6.54	0.84	9.5
22/11/19: 11:00:00 - 11:10:00	0.49	6.61	0.31	6.17	0.78	9
22/11/19: 11:10:00 - 11:20:00	0.53	6.49	0.32	5.73	0.74	9.5
22/11/19: 11:20:00 - 11:30:00	0.51	6.32	0.29	5.81	0.69	9
22/11/19: 11:30:00 - 11:40:00	0.49	6.27	0.32	6.21	0.89	10.5
22/11/19: 11:40:00 - 11:50:00	0.48	6.44	0.30	6.15	0.75	10.5
22/11/19: 11:50:00 - 12:00:00	0.56	6.39	0.37	6.13	0.78	10.5
22/11/19: 12:00:00 - 12:10:00	0.63	6.53	0.39	6.08	0.98	9.5
22/11/19: 12:10:00 - 12:20:00	0.56	6.17	0.35	5.92	0.95	9
22/11/19: 12:20:00 - 12:30:00	0.56	6.32	0.38	6.34	0.70	9
22/11/19: 12:30:00 - 12:40:00	0.50	6.28	0.31	5.77	0.77	9.5
22/11/19: 12:40:00 - 12:50:00	0.54	6.44	0.34	5.91	0.80	9.5
22/11/19: 12:50:00 - 13:00:00	0.57	6.36	0.36	5.93	0.93	10.5
22/11/19: 13:00:00 - 13:10:00	0.60	6.29	0.37	6.20	1.02	8.5
22/11/19: 13:10:00 - 13:20:00	0.54	6.33	0.35	6.01	0.82	13
22/11/19: 13:20:00 - 13:30:00	0.52	6.21	0.31	5.88	0.81	8.5
22/11/19: 13:30:00 - 13:40:00	0.58	6.17	0.35	6.06	0.90	11
22/11/19: 13:40:00 - 13:50:00	0.45	6.04	0.28	5.60	0.79	8
22/11/19: 13:50:00 - 14:00:00	0.51	5.94	0.34	5.92	0.67	9.5
22/11/19: 14:00:00 - 14:10:00	0.50	5.91	0.31	5.60	0.77	9.5
22/11/19: 14:10:00 - 14:20:00	0.44	6.14	0.26	5.57	0.88	9
22/11/19: 14:20:00 - 14:30:00	0.47	5.83	0.30	5.85	0.69	11.5
22/11/19: 14:30:00 - 14:40:00	0.37	6.07	0.23	5.44	0.56	9
22/11/19: 14:40:00 - 14:50:00	0.51	5.93	0.32	5.64	0.74	8.5
22/11/19: 14:50:00 - 15:00:00	0.49	5.73	0.31	6.00	0.68	11
22/11/19: 15:00:00 - 15:10:00	0.48	5.88	0.30	5.74	0.63	8.5
22/11/19: 15:10:00 - 15:20:00	0.49	5.83	0.30	5.85	0.75	8.5
22/11/19: 15:20:00 - 15:30:00	0.44	5.80	0.29	5.64	0.62	9
22/11/19: 15:30:00 - 15:40:00	0.36	5.89	0.22	5.47	0.59	11
22/11/19: 15:40:00 - 15:50:00	0.50	5.77	0.34	5.64	0.72	8.5
22/11/19: 15:50:00 - 16:00:00	0.49	5.90	0.30	5.72	0.79	8.5
22/11/19: 16:00:00 - 16:10:00	0.37	5.79	0.24	5.42	0.56	8.5
22/11/19: 16:10:00 - 16:20:00	0.42	5.72	0.26	5.50	0.61	9.5
22/11/19: 16:20:00 - 16:30:00	0.39	5.54	0.25	5.53	0.56	8.5
22/11/19: 16:30:00 - 16:40:00	0.35	5.72	0.22	5.76	0.61	10
22/11/19: 16:40:00 - 16:50:00	0.41	5.67	0.26	5.51	0.69	9
22/11/19: 16:50:00 - 17:00:00	0.42	5.76	0.26	5.58	0.62	9
22/11/19: 17:00:00 - 17:10:00	0.45	5.64	0.29	5.28	0.60	8.5
22/11/19: 17:10:00 - 17:20:00	0.37	5.74	0.23	5.49	0.50	12.5
22/11/19: 17:20:00 - 17:30:00	0.36	5.84	0.23	5.70	0.52	10
22/11/19: 17:30:00 - 17:40:00	0.31	5.83	0.18	5.39	0.57	8.5
22/11/19: 17:40:00 - 17:50:00	0.37	5.70	0.24	5.70	0.53	8.5
22/11/19: 17:50:00 - 18:00:00	0.32	5.92	0.23	5.88	0.46	8.5
22/11/19: 18:00:00 - 18:10:00	0.31	5.80	0.19	5.55	0.45	9.5
22/11/19: 18:10:00 - 18:20:00	0.30	5.91	0.19	5.57	0.45	8.5
22/11/19: 18:20:00 - 18:30:00	0.41	5.84	0.25	5.63	0.66	11
22/11/19: 18:30:00 - 18:40:00	0.29	6.04	0.18	5.74	0.49	13.5
22/11/19: 18:40:00 - 18:50:00	0.28	5.74	0.18	5.56	0.40	9
22/11/19: 18:50:00 - 19:00:00	0.30	5.67	0.20	5.53	0.45	9
22/11/19: 19:00:00 - 19:10:00	0.28	5.91	0.18	5.68	0.42	11
22/11/19: 19:10:00 - 19:20:00	0.29	5.69	0.18	5.37	0.46	8.5
22/11/19: 19:20:00 - 19:30:00	0.27	5.69	0.18	5.72	0.43	9.5
22/11/19: 19:30:00 - 19:40:00	0.29	6.01	0.17	5.35	0.44	11
22/11/19: 19:40:00 - 19:50:00	0.31	6.01	0.19	5.49	0.57	10
22/11/19: 19:50:00 - 20:00:00	0.34	5.81	0.23	5.68	0.50	8.5
22/11/19: 20:00:00 - 20:10:00	0.31	5.99	0.20	5.63	0.54	9.5
22/11/19: 20:10:00 - 20:20:00	0.34	5.74	0.21	5.63	0.50	11
22/11/19: 20:20:00 - 20:30:00	0.34	6.00	0.21	5.64	0.65	10
22/11/19: 20:30:00 - 20:40:00	0.31	6.01	0.20	5.68	0.44	10
22/11/19: 20:40:00 - 20:50:00	0.28	5.99	0.17	5.47	0.48	9.5
22/11/19: 20:50:00 - 21:00:00	0.25	6.32	0.14	5.19	0.45	8.5
22/11/19: 21:00:00 - 21:10:00	0.27	6.00	0.17	5.75	0.40	9.5
22/11/19: 21:10:00 - 21:20:00	0.30	5.91	0.19	5.75	0.52	10
22/11/19: 21:20:00 - 21:30:00	0.29	5.96	0.19	5.65	0.50	8.5
22/11/19: 21:30:00 - 21:40:00	0.25	6.37	0.15	5.77	0.46	12.5
22/11/19: 21:40:00 - 21:50:00	0.25	5.95	0.16	5.33	0.37	12
22/11/19: 21:50:00 - 22:00:00	0.25	6.09	0.15	5.52	0.39	11.5
22/11/19: 22:00:00 - 22:10:00	0.29	5.93	0.18	5.81	0.45	11.5

22/11/19: 22:10:00 - 22:20:00	0.29	5.79	0.20	5.80	0.45	11.5
22/11/19: 22:20:00 - 22:30:00	0.28	5.64	0.18	5.67	0.47	11
22/11/19: 22:30:00 - 22:40:00	0.33	5.93	0.22	5.70	0.49	11.5
22/11/19: 22:40:00 - 22:50:00	0.30	5.93	0.18	5.56	0.49	15.5
22/11/19: 22:50:00 - 23:00:00	0.30	5.69	0.20	5.51	0.47	9
22/11/19: 23:00:00 - 23:10:00	0.33	5.81	0.21	5.64	0.50	10
22/11/19: 23:10:00 - 23:20:00	0.32	5.76	0.21	5.63	0.52	12
22/11/19: 23:20:00 - 23:30:00	0.28	5.61	0.19	5.58	0.43	8
22/11/19: 23:30:00 - 23:40:00	0.30	5.94	0.19	5.55	0.44	10.5
22/11/19: 23:40:00 - 23:50:00	0.32	5.79	0.20	5.45	0.54	11
22/11/19: 23:50:00 - 00:00:00	0.32	5.82	0.21	5.43	0.50	8
23/11/19: 00:00:00 - 00:10:00	0.41	5.84	0.24	5.57	0.67	9.5
23/11/19: 00:10:00 - 00:20:00	0.38	5.60	0.25	5.68	0.68	11
23/11/19: 00:20:00 - 00:30:00	0.37	5.74	0.23	5.41	0.58	8.5
23/11/19: 00:30:00 - 00:40:00	0.39	5.69	0.24	5.36	0.69	8.5
23/11/19: 00:40:00 - 00:50:00	0.38	5.93	0.23	5.47	0.62	12.5
23/11/19: 00:50:00 - 01:00:00	0.39	5.74	0.25	5.47	0.61	8
23/11/19: 01:00:00 - 01:10:00	0.43	5.61	0.28	5.43	0.62	8.5
23/11/19: 01:10:00 - 01:20:00	0.43	5.68	0.28	5.48	0.65	8
23/11/19: 01:20:00 - 01:30:00	0.38	5.64	0.25	5.57	0.61	9.5
23/11/19: 01:30:00 - 01:40:00	0.44	5.69	0.26	5.35	0.70	9.5
23/11/19: 01:40:00 - 01:50:00	0.43	5.66	0.27	5.38	0.67	8
23/11/19: 01:50:00 - 02:00:00	0.40	5.67	0.23	5.02	0.64	8.5
23/11/19: 02:00:00 - 02:10:00	0.45	5.63	0.29	5.62	0.84	9.5
23/11/19: 02:10:00 - 02:20:00	0.46	5.69	0.28	5.45	0.68	9.5
23/11/19: 02:20:00 - 02:30:00	0.50	5.78	0.32	5.77	0.75	8
23/11/19: 02:30:00 - 02:40:00	0.47	5.80	0.29	5.54	0.62	9
23/11/19: 02:40:00 - 02:50:00	0.52	5.69	0.34	5.70	0.88	10.5
23/11/19: 02:50:00 - 03:00:00	0.50	5.80	0.31	5.63	0.89	9.5
23/11/19: 03:00:00 - 03:10:00	0.44	6.10	0.26	5.64	0.69	9.5
23/11/19: 03:10:00 - 03:20:00	0.44	5.77	0.28	5.64	0.63	9.5
23/11/19: 03:20:00 - 03:30:00	0.50	5.84	0.31	5.55	0.76	8
23/11/19: 03:30:00 - 03:40:00	0.42	5.99	0.28	5.51	0.64	8.5
23/11/19: 03:40:00 - 03:50:00	0.45	5.84	0.29	5.75	0.62	8.5
23/11/19: 03:50:00 - 04:00:00	0.52	5.87	0.32	5.71	1.00	8.5
23/11/19: 04:00:00 - 04:10:00	0.53	5.90	0.34	5.63	0.92	8
23/11/19: 04:10:00 - 04:20:00	0.51	5.94	0.32	5.47	0.78	8.5
23/11/19: 04:20:00 - 04:30:00	0.54	5.94	0.32	5.55	0.77	8.5
23/11/19: 04:30:00 - 04:40:00	0.47	5.77	0.31	5.58	0.67	9
23/11/19: 04:40:00 - 04:50:00	0.47	5.74	0.29	5.31	0.77	8.5
23/11/19: 04:50:00 - 05:00:00	0.56	5.94	0.34	5.64	0.90	9.5
23/11/19: 05:00:00 - 05:10:00	0.49	5.91	0.30	5.66	0.75	9
23/11/19: 05:10:00 - 05:20:00	0.55	6.22	0.34	6.06	0.91	9
23/11/19: 05:20:00 - 05:30:00	0.43	6.06	0.28	5.81	0.63	9.5
23/11/19: 05:30:00 - 05:40:00	0.48	6.09	0.32	5.77	0.69	8.5
23/11/19: 05:40:00 - 05:50:00	0.53	6.14	0.34	5.98	0.70	10
23/11/19: 05:50:00 - 06:00:00	0.50	6.17	0.32	5.88	0.82	11
23/11/19: 06:00:00 - 06:10:00	0.49	5.98	0.32	5.92	0.99	8
23/11/19: 06:10:00 - 06:20:00	0.46	6.17	0.29	6.07	0.69	10
23/11/19: 06:20:00 - 06:30:00	0.54	6.17	0.34	5.94	0.67	9
23/11/19: 06:30:00 - 06:40:00	0.46	6.14	0.29	6.00	0.71	10
23/11/19: 06:40:00 - 06:50:00	0.43	6.07	0.27	5.78	0.61	8.5
23/11/19: 06:50:00 - 07:00:00	0.39	6.03	0.23	5.74	0.67	9
23/11/19: 07:00:00 - 07:10:00	0.37	5.94	0.24	5.51	0.62	7.5
23/11/19: 07:10:00 - 07:20:00	0.45	6.14	0.27	5.87	0.74	9.5
23/11/19: 07:20:00 - 07:30:00	0.45	6.15	0.29	5.97	0.78	10
23/11/19: 07:30:00 - 07:40:00	0.50	6.14	0.31	5.91	0.75	9
23/11/19: 07:40:00 - 07:50:00	0.44	6.07	0.27	5.68	0.71	9
23/11/19: 07:50:00 - 08:00:00	0.46	6.07	0.28	5.73	0.64	8.5
23/11/19: 08:00:00 - 08:10:00	0.48	6.25	0.31	6.14	0.64	10.5
23/11/19: 08:10:00 - 08:20:00	0.40	6.27	0.26	6.10	0.59	9
23/11/19: 08:20:00 - 08:30:00	0.46	6.21	0.27	5.86	0.73	10
23/11/19: 08:30:00 - 08:40:00	0.41	6.26	0.27	6.00	0.68	10.5
23/11/19: 08:40:00 - 08:50:00	0.54	6.24	0.35	6.00	0.98	8.5
23/11/19: 08:50:00 - 09:00:00	0.41	6.31	0.27	6.10	0.63	8.5
23/11/19: 09:00:00 - 09:10:00	0.45	6.19	0.29	6.08	0.80	9.5
23/11/19: 09:10:00 - 09:20:00	0.54	6.24	0.32	6.05	0.82	8.5
23/11/19: 09:20:00 - 09:30:00	0.57	6.31	0.34	6.05	0.93	8.5
23/11/19: 09:30:00 - 09:40:00	0.46	6.21	0.29	5.85	0.80	8
23/11/19: 09:40:00 - 09:50:00	0.47	6.22	0.29	6.11	0.66	9.5