

# Report on data processing results

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## Abstract

Nowadays, the anthropogenic underwater noise has been recognised as a pollutant of international concern and the underwater noise levels have been identified as a target for the monitoring as they reflect the quality of the marine environment. By using the Passive Acoustic Monitoring (PAM) technique, the SOUNDSCAPE monitoring project aims to assess the levels of underwater sound at the Northern Adriatic Sea, compliant with the Marine Strategy Framework Directive (MSFD; EU).

This document describes:



(i) the procedures for processing the raw data by using a web app developed within the Soundscape project.

(ii) the procedures for validation and implementation of the web app;

(iii) the 1 sec and 20 sec averaged Sound Pressure Level data (SPLs) for 4 different 1/3 octave bands (63 Hz, 125 Hz, 250 Hz, 4000 Hz) calculated for all the recording stations during the period Mar-2020 / June-2021.

The here presented SOUNDSCAPE data sets are essential for establishing baselines that documents acoustic conditions over time on the NAS regional scale. In its turn this will facilitate the ecosystem heath assessments and the evaluation of the consequences of proposed marine development, promoting a knowledge-based management of the marine resources.



## 1. Introduction

Since the anthropogenic underwater noise has been recognised as a pollutant of international concern (Duarte et al. 2021), the underwater noise levels have been identified as a target for the monitoring as they reflect the quality of the marine environments: the Directive 2008/56/EC (Marine Strategy Framework Directive, MSFD; EU), which was revised in theCommission Directive 2017/845/EU, 2017,mandates toward a Good Environmental Status (GES) in the European seas, with two indicators for underwater noise included to evaluate the GES. In particular, it is claimed to assess the 11.2.1 Indicator, that is described through the average values of sound pressure levels (re 1  $\mu$ Pa RMS) over a year within the 63 Hz and 125 Hz 1/3 octave bands standard centre frequencies. Setting up monitoring international cross-bordering programmes is recommended in this context.

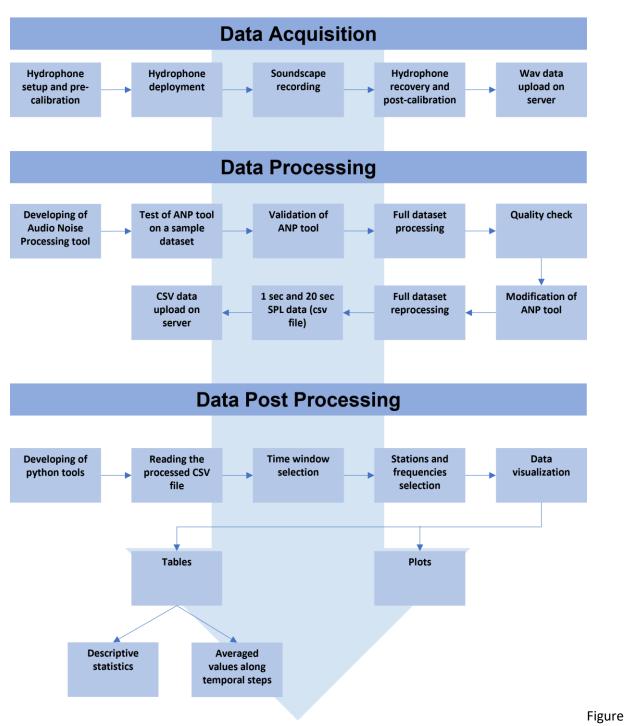
By using the Passive Acoustic Monitoring (PAM) technique, the SOUNDSCAPE monitoring project aims to assess the levels of underwater sound at the Northern Adriatic Sea, compliant with the MSFD. Therefore, although the sound measurements themselves covered a wider frequency range (10 Hz - 20 kHz), the 63 and 125 Hz1/3 octave frequency centred bands were the main focus of the data processing together with the 250 Hz and 4000 Hz 1/3 octave frequency centred bands as representative of the possible interaction between the local fauna and the man-made acoustic inputs (see DeliverableD4.2.1.).

The here presented SOUNDSCAPE data sets are essential for establishing baselines that document acoustic conditions over time on the NAS regional scale. In its turn this will facilitate the ecosystem heath assessments and the evaluation of the consequences of proposed marine development, promoting a knowledge-based management of the marine resources.

The workflow that explains the path from the acquisition of underwater noise raw data to its processing and post-processing is shown in **Error! Unknown switch argument.** Three main blocks are distinguishable:

- "Data Acquisition" describes the process of sound recording and wav files uploading on the server;
- "Data Processing" shows the steps that lead to the processing of wav data to calculate Sound Pressure Level data;
- "Data Post Processing" is the last block and it illustrates the SPL data post-processing to obtain descriptive tables and graphs (Figure 2).





1. Workflow of data acquisition, processing and post-processing.



Graph	Example	Graph	Example
Spectrogram like	at the second	Median Values of spectra	
Plot of the data		Plot of daily median	
KDE Density plot		Histogram	
Boxplot		Violinplot	*
Boxplot of day/night data		Violinplot of day/night data	**
Plot of percentiles		Percentiles comparison	
Boxplot of frequencies		Violinplot of frequencies	÷ <u>±</u> ++
Boxplot of monthly data		Violinplot of monthly data	++
Boxplot of different periods		Violinplot of different periods	
Plot of frequencies in different periods	1		
Plot of the percentiles for different stations		Plot of the densities for different stations	
Boxplot of stations		Violinplot of stations	

Figure 2. List of plot types produced in the post processing.

## 2 Methods – data acquisition and processing

#### 2.1 Data acquisition

The SOUNDSCAPE measuring system consists of a hydrophone (Neptune Sonar D60), the signal conditioning electronics, an A/D converter, and the data storage. Before and after each deployment the recording system was individually calibrated by using pistonphone in order to check its correct functioning. The collected wav files were uploaded and double backed up on two different servers. All the operations are detailed in DeliverableD3.2.1, DeliverableD3.2.2, DeliverableD3.3.2 and DeliverableD3.5.3.

#### 2.2 Data processing

With the aim to assure a common processing protocol on all the SOUNDSCASPE collected data, a processing tool based on a python code was developed specifically for this project by the University of Gdansk together with CN: the tool is provided both as a web APP, hosted in a CNR server and optimize to perform parallel operations, and as an executable tool that can be run locally in any pc.



The tool is named Audio Noise Processing App (ANP); it has been developed following the recommendation described in DeliverableD3.5.1 and DeliverableD3.5.3. The steps used by the ANP are briefly summarized below:

- 1-sec segment is read from a wav file (i.e48000 digit data, being the Sample Rate equal to 48000).
- A frequency dependent sensitivity is applied, according to DeliverableD3.2.1 and to the information provided by the hydrophone manufacturer.
- For each frequency, the SPL averaged over 1 second is calculated in the frequency domain by calculating the Discrete Fourier Transform (DFT) of the signal.
- 20 seconds averaged SPLs are then calculated from 1 second averaged SPLs.
- Output data of 1 second and 20 seconds SPLs are produced as text Comma separated files.

To validate the correct functioning of the ANP, the latter was tested again other already validated software, both commercial (Sigma plus) and not commercial (developed within other projects, i.e. BIAS project).

A subset of data (nine 1-hour wav files, one from each different station) was processed with ANP tool and the SPL of each 1/3 octave band were compared with the one calculated by a validated tool. The ANP was able to produce the same results. In Figure 3 an example is shown. In Table 1, the average and standard deviation of absolute errors (i.e. the absolute differences between trusted tool and ANP tool) are listed for each frequency; the average absolute error of all the data is really small: 0.08 dB re 1 $\mu$ Pa, and it is less than 0.1 dB re 1 $\mu$ Pa in most of the frequencies. Higher errors are associated to the lower frequencies, but anyway they are lower than 0.3 dB re 1 $\mu$ Pa.

Once assessed the good functioning of the ANP tool, all the wav data were processed.



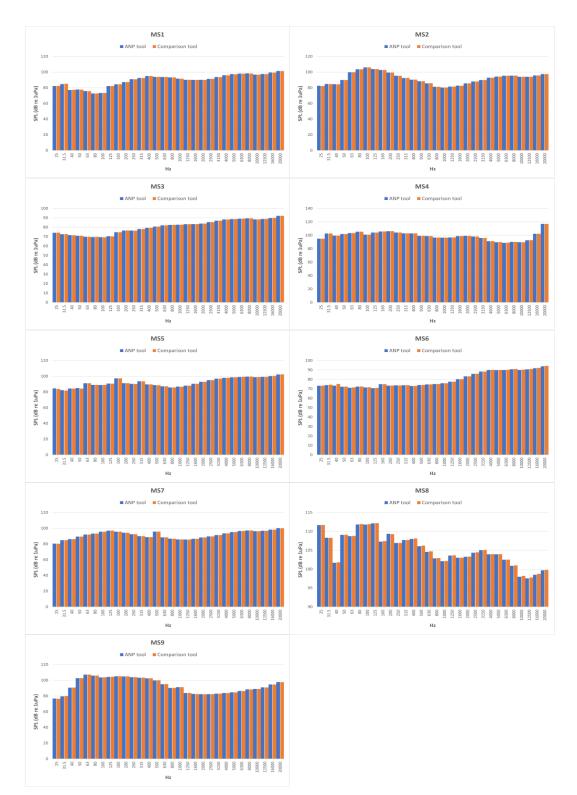


Figure 3. Comparison between ANP and an already validated tool.



#### Table 1. Absolute errors of differences between ANP tool and a validated analysis tool.

F	MeanError	St. Dev.			
Hz					
(centred frequency)	SPL (dB re 12Pa)				
25	0.26	0.27			
31.5	0.22	0.20			
40	0.29	0.55			
50	0.12	0.18			
63	0.07	0.11			
80	0.06	0.05			
100	0.06	0.05			
125	0.09	0.08			
160	0.03	0.04			
200	0.04	0.04			
250	0.05	0.02			
315	0.04	0.03			
400	0.04	0.04			
500	0.05	0.06			
630	0.04	0.04			
800	0.03	0.03			
1000	0.04	0.04			
1250	0.02	0.01			
1600	0.03	0.03			
2000	0.03	0.03			
2500	0.04	0.04			
3150	0.03	0.05			
4000	0.05	0.05			
5000	0.09	0.08			
6300	0.11	0.12			
8000	0.09	0.08			



10000	0.10	0.10
12500	0.12	0.11
16000	0.12	0.11
20000	0.10	0.13
All data	0.08	0.15

#### 2.3 Quality check

A quality check was performed on all the processed data, highlighting anunexpected bimodal distribution in the data (Figure 4), which waspresent in almost all the station but MS1. Additionally, the regular presence of jumps of about 15 dB was observed inspecting the SPL plots for the recording stations, with special regards to the lower frequencies (Figure 5). Many wav files were than manually checked, showing the presence of impulsive noises that occurred regularly (Figure 6).

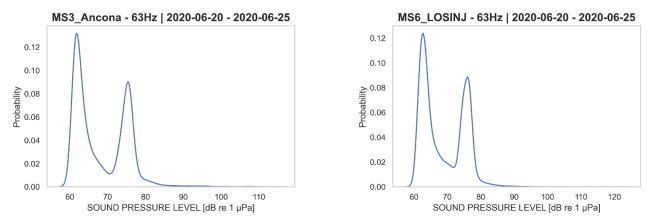


Figure 4. Distribution of SPL calculated from wav data affected by noisy signals.

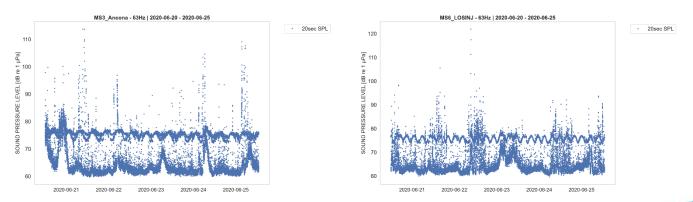


Figure 5. Plot of SPL calculated from wav data affected by noisy signals.



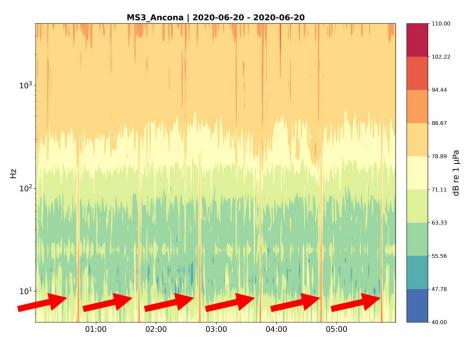


Figure 6. Example of impulsive noise.

More in detail we noticed that:

- Stations MS2, MS4, MS5, MS7, MS8, MS9: in every wav file the impulsive signal first appears after 59.8 seconds, it lasts about 0.8 seconds and then it occurs every 60.5 seconds.
- Stations MS3: in most of wav files the signal first appears after 59.8 seconds, it lasts about 0.8 seconds and then it occurs every 60.5 seconds. In some files, it first appears after 30seconds, it lasts about 0.8 seconds and then it occurs every 60.5 seconds.
- Stations MS6: in most of wav files, the signal first appears after 59.8 seconds, lasts about 0.8 seconds and then occurs every 60.5 seconds; in some files it first appears after 27 seconds or after 30 seconds or after 33.3 seconds, it lasts about 0.8 seconds and then occurs every 60.5 seconds.

The impulsive signals couldn't have a natural or anthropic origin, being so common along so many different stations and so regularly spaced in time. The technicians from Develogic, the company that produces the hydrophones, confirmed that the impulsive noises were generated by a particular setting used in the configuration of the hydrophone (suggested by the Develogic itself). All the wav data had to be processed again, tacking in account this issue.

The workflow used to exclude the impulsive noises from the SPL analysis is shown in Figure 7 The raw wav data were read by the ANP; once an impulsive noise was detected, the raw wav data corresponding to the 3 seconds centred on it was set as NAN (Not a Number): in this way, the impulsive noiseswere excluded from the analysis and the duration of wav files was preserved. Since the impulsive signals were not included in the SPL analysis and none of the 20-sec averaged SPLs were lost, SPL data output were considered highly reliable (Figure 8).



Unfortunately, in order to remove the impulsive signal, which could appear in a temporal range lasting 2 consecutive seconds, three 1-sec averaged SPLs were lost every minute. On the other hand, it has to be stressed that in this process, the original wav files were not modified.

The 1 second and 20 seconds averaged SPL output files (in the format of comma separated text files) were uploaded and double backed up on two different servers, according to DeliverableD3.6.1.

The user manual of ANP tool is reported in DeliverableD3.5.1.

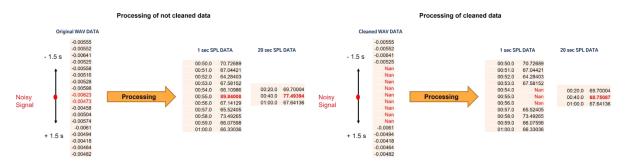


Figure 7. Example of cleaning of data.

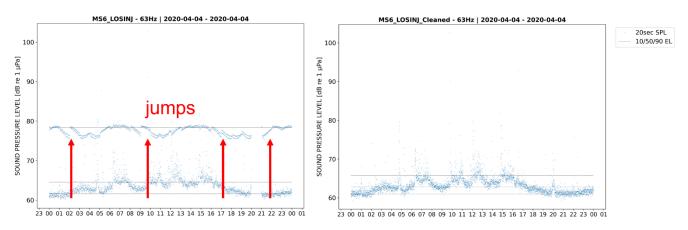


Figure 8. Example of SPL data before and after cleaning data.



## 3 Methods - Data Post Processing

To post process the SPL data, a Jupyter notebook in Python environment was developed. AJupyter Notebook can be defined as a web application that allows to create documents that may contain live codes (see <a href="https://jupyter.org/">https://jupyter.org/</a>). The notebook developed by ISMAR contains python codes with which users can process SPL data to produce descriptive tables and graphs. No skills in programming are required since all the operations are text driven.

The workflow of SPL data post processing, shown in Figure 1, is simply. After reading SPL csv files and selecting (i) a time window, (ii) a recording station and (iii) frequency, it is possible to compute some metrics, creating some tables and graphs.

The following statistical measures can be calculated:

- exceedance level (LXX): the SPL value that is exceeded by the XX% of the time in a period (median is the L50 level).
- Averaged SPL: defined as  $10 \log_{10} \left( \frac{1}{n} \sum_{i=1}^{n} 10^{\frac{SPL_i}{10}} \right)$  for each SPL<sub>i</sub> in a period.
- Total SPL: defined as  $10 \log_{10} \left( \sum_{i=1}^{n} 10^{\frac{SPL_i}{10}} \right)$  for each SPL<sub>i</sub> in a period.
- •

The outputs of the Jupyter notebook are tables and graphs.

#### 3.1 Tables

Two kinds of table are produced, given a time window:

- A table with some information and descriptive statistics was generated for each station and frequency selected, as shown in Figure 9.
- Given a temporal step (hour, day, week, month), a table with temporal values of statistics (EL, average and total SPL) was calculated for the station and the frequencies selected. In Figure 10 hourly EL50 values are listed.



Stats	Freq	Mean	50th perce	MIn	Max	75 EL	25 EL	90 EL	10 EL	T_SPL	AV_SPL
Station = MS1_acqua_alta											
File = 20s											
Start time = 2020-03-01 00:00:00											
Last time = 2021-06-30 23:59:40											
First data = 2020-03-01 00:00:00											
Last data = 2021-06-30 23:59:40											
Expected data = 2103840											
Total data = 1691481											
Percent of data = 80.40%											
	63_1/3_octave	75.31	72.97	61.15	143.56	69.35	79.71	67.61	86.89	158.64	96.36
	125_1/3_octave	80.75	79.18	64.42	141.31	74.38	85.56	71.40	92.04	158.18	95.90
	250_1/3_octave	93.12	92.30	71.57	139.90	87.43	98.09	83.13	104.20	165.88	103.60
	4000_1/3_octave	97.05	96.81	77.96	139.92	94.97	98.57	92.92	101.03	162.56	100.2

*Figure 9. Table with descriptive statistics.* 

datetime	63_1/3_octave	125_1/3_octave	250_1/3_octave	4000_1/3_octave
01/06/2021 00:00	69.18	75.06	89.56	97.43
01/06/2021 01:00	68.93	74.32	87.25	96.77
01/06/2021 02:00	69.21	74.05	87.42	97.06
01/06/2021 03:00	69.61	94.92	111.00	105.91
01/06/2021 04:00	69.20	80.15	94.48	97.76
01/06/2021 05:00	68.59	73.28	90.15	96.70
01/06/2021 06:00	68.42	70.02	86.11	96.00
01/06/2021 07:00	68.55	70.66	87.28	96.33
01/06/2021 08:00	68.32	72.08	88.54	96.23
01/06/2021 09:00	68.46	72.80	89.65	95.89
01/06/2021 10:00	68.00	70.02	89.46	95.32
01/06/2021 11:00	67.81	70.19	87.52	94.48
01/06/2021 12:00	67.62	72.61	87.15	94.47
01/06/2021 13:00	67.66	75.31	91.05	95.09
01/06/2021 14:00	68.49	73.43	88.14	95.44
01/06/2021 15:00	68.51	86.58	99.69	96.7
01/06/2021 16:00	67.91	73.89	88.08	95.12
01/06/2021 17:00	67.94	75.73	88.64	95.65
01/06/2021 18:00	68.01	72.88	89.87	96.38
01/06/2021 19:00	69.17	74.10	91.68	97.79
01/06/2021 20:00	69.73	83.07	96.22	98.28
01/06/2021 21:00	69.74	81.29	93.04	97.62
01/06/2021 22:00	69.46	80.45	90.11	97.7
01/06/2021 23:00	69.23	76.03	87.92	97.2

Figure 10. Table with temporal values.

#### 3.2 Graphs

The list of plot types that can be outputted is shown in Figure 11.



Graph	Example	Graph	Example
Spectrogram like	12-19 (KL)	Median Values of spectra	
Plot of the data		Plot of daily median	
KDE Density plot	4. <u></u> )	Histogram	
Boxplot		Violinplot	*
Boxplot of day/night data		Violinplot of day/night data	++
Plot of percentiles		Percentiles comparison	
Boxplot of frequencies		Violinplot of frequencies	+++
Boxplot of monthly data	障害	Violinplot of monthly data	[+]+
Boxplot of different periods		Violinplot of different periods	++
Plot of frequencies in different periods	12		
Plot of the percentiles for different stations	E.	Plot of the densities for different stations	
Boxplot of stations		Violinplot of stations	+++

Figure 11. List of graphs.

Given a time window, different graphs can be produced:

• Time series plot, to visualize the temporal evolution of SPL data (Figures 12, 13, 14).



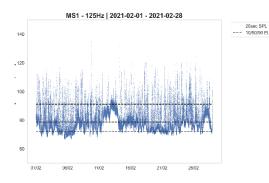


Figure 12. Plot SPL data over a period.

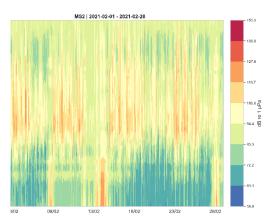


Figure 14. Displays the values of SPL at a specified time and frequency.

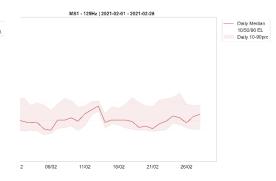
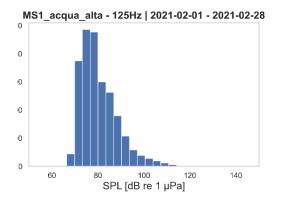


Figure 13. Plot of daily median with 10-90 EL band.

• Descriptive plots, to highlight the principal statistics of the data distribution over the time window (Figures 18-20).







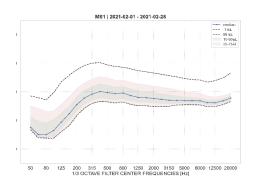


Figure 17. For each frequency, median of SPL over a period with bands of 25-75 EL, 10-90 EL and 1-99 EL.

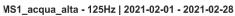




Figure 19. Box plot of SPL distribution over a period with some summary statistics in the (whiskers).

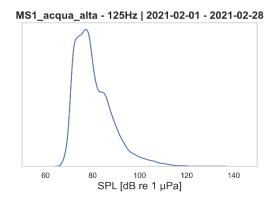


Figure 16. Probabilitydensity plot.

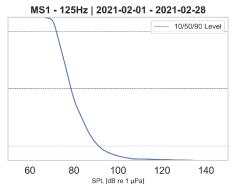


Figure 18. EL distribution over a period.

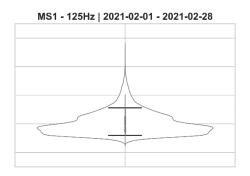
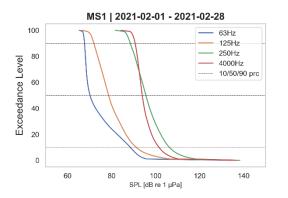


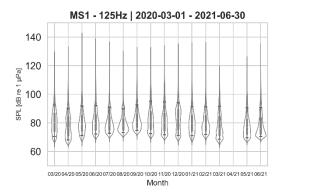
Figure 20. Violinplot over a period, with the probability density of the data and some boxplot: median, 25-75 EL (box) and 10-90 EL summary statistics in the boxplot: median, 25-75 EL (box) and 10-90 EL (whiskers).

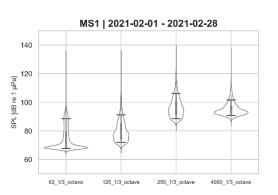


As can be seen in Figure 11. List of graphs.data can be aggregated and visualized in different way. So, for each station it is possible to compare data over different periods or to check the spatial distribution of data between stations. Some examples are shown in Figure 21-24.

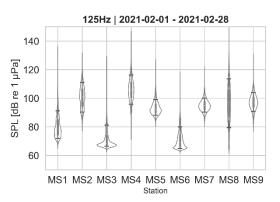


*Figure 21. EL comparison between different frequencies over a period.* 





*Figure 22. Comparison between different frequencies through Violinplots.* 



*Figure 23. Comparison between months through Figure 24. Spatial distribution of SPL. Violinplots.* 

## 4 Summary and general conclusions

All elaborations and graphs shown in this report were made using 20 seconds averaged SPLs data for four 1/3 octave bands, with central frequencies in 63, 125, 250, 4000 Hz, according to D 3.5.1.

For each station, SPL data were aggregated and processed over the whole period, 1 mar 2020 – 30 jun 2020, and over the different months. Figure 25 and Table 2 highlight the data availability for each station in the period March 2020 - June 2021. A map of the stations is shown in Figure 26.



Table 2. Data availability in mar 2020 - jun 2021.

Station	Data availability
MS1	80.40%
MS2	75.84%
MS3	76.68%
MS4	61.78%
MS5	95.68%
MS6	91.31%
MS7	76.34%
MS8	78.19%
MS9	68.28%



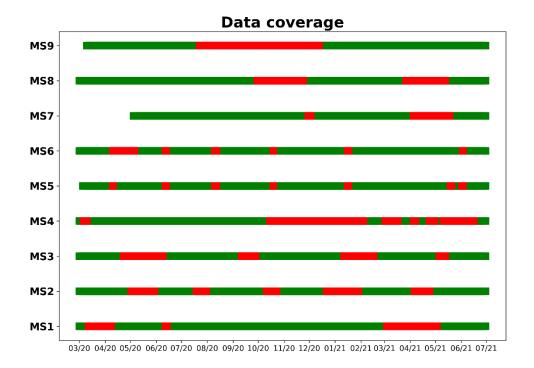


Figure 25. Data availability.





#### Figure 26. Maps of the stations.

Concluding, the spatial distribution of SPL data in the different stations is shown in Table 3 and in Figure 27, Figure 28, Figure 29, and Figure 30 for each of the considered frequency over the period march 2020 - June 2021. The spatial distribution of noise levels is found to be different between the four octave bands. In particular:

- 63 Hz 1/3 octave band: stations MS2, MS8 and MS9 are the loudest stations with median values greater than 94 dB re 1  $\mu$ Pa; stations MS1, MS3 and MS6 the more silent, with median values overall lower than 75 dB re 1  $\mu$ Pa, while stations MS4, MS5, MS7 have median values around 85 dB re 1  $\mu$ Pa. Stations MS2, MS4 and MS8 seem to have a higher variability in time, as shown in Figure 27, looking at the Inter-Quartile Range (IQR), a measure of variability, equal to the difference between 75th and 25th percentiles.
- 125 Hz 1/3 octave band: the spatial distribution of the recorded values is similar to the 63 Hz1/3 octave band, with stations MS2, MS4 and MS8 presenting the highest median values, around 98 -100 dB re 1 μPa, and stations MS3 and MS6 showing the lowest ones, around 69 dB re 1 μPa. The higher SPLs temporal variability is seen in stations MS4 and MS8 (Figure 28).



- 250 Hz 1/3 octave band: stations MS4 and MS8 have the highest median values, close to 100 dB, stations MS3 and MS6 have the lowest values, around 77 dB re 1 μPa, while other stations show similar median values, ranging from 90 to 93 dB re 1 μPa ca. Highest temporal variability is found in station MS8 (Figure 29).
- 4000Hz 1/3 octave band: in this case, the differences between stations are less evident. Stations MS1, MS5, MS7 and MS8 show the highest median values while the lowest are recorded in stations MS4 and MS9. The IQR is similar in all the stations, being higher in station MS8 (Figure 30).

In annex and in related files are reported more graphs and table for each station.

Table 3. Median and Inter Quartile Range for stations and Octave bands in the period March 2020 - June 2021.

		63 Hz	125 Hz	250 Hz	4000 Hz
MS1	EL50	72.97	79.18	92.30	96.81
	IQR	10.36	11.18	10.66	3.60
MS2	EL50	93.92	98.31	91.89	89.98
	IQR	16.27	13.76	13.81	4.86
MS3	EL50	67.60	69.73	78.56	88.57
	IQR	9.85	10.26	11.94	5.15
MS4	EL50	85.05	100.73	100.73	86.94
	IQR	22.55	12.49	11.55	7.01
MS5	MS5 EL50		90.23	90.79	97.18
	IQR	9.80	7.20	6.73	3.94
MS6	EL50	64.22	69.97	75.79	90.33
	IQR	4.23	9.00	10.51	4.38
MS7	EL50	87.67	91.17	89.02	94.20
	IQR	7.08	6.65	6.90	3.30
MS8	EL50	93.76	98.68	97.07	97.08
	IQR	23.88	20.70	17.72	4.37
MS9	EL50	95.17	95.02	93.92	86.20
	IQR	10.21	7.86	7.68	4.93



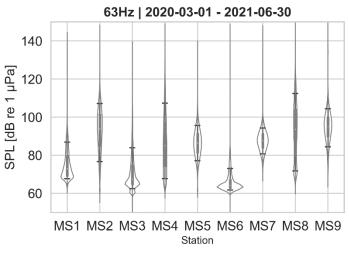


Figure 27. Violin plot of SPL data, 63 Hz band, mar 2020 - jun 2021.

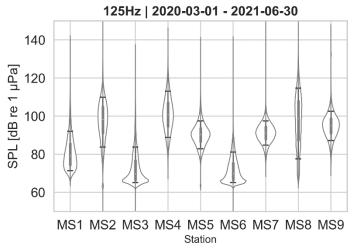


Figure 28. Violin plot of SPL data, 125 Hz band, mar 2020 - jun 2021.



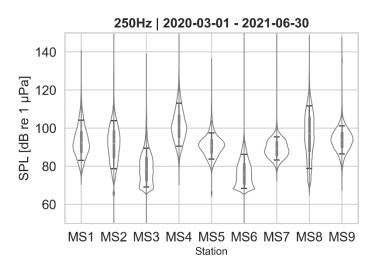


Figure 29. Violin plot of SPL data, 250 Hz band, mar 2020 - jun 2021.

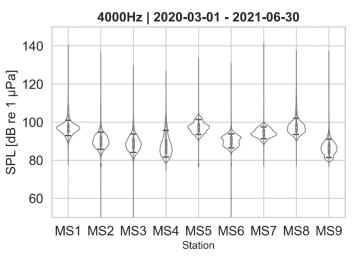


Figure 30. Violin plot of SPL data, 4000 Hz band, mar 2020 - jun 2021.



## Annex

## A1.Descriptive tables for each station.

Station	Time	Data availability	Freq	50 EL	75 EL	25 EL	90 EL	10 EL	T_SPL	AV_SPL
MS1	ALL	80.40%	63	72.97	69.35	79.71	67.61	86.89	158.64	96.36
			125	79.18	74.38	85.56	71.40	92.04	158.18	95.90
			250	92.30	87.43	98.09	83.13	104.20	165.88	103.60
			4000	96.81	94.97	98.57	92.92	101.03	162.56	100.27
	mar-20	34.54%	63 125	74.29 80.45	67.53 74.34	83.20 86.69	65.51 70.42	88.39 92.37	135.22 145.18	88.58 98.54
			250	95.98	91.88	100.37	87.27	106.15	153.17	106.53
			4000	94.52	92.31	97.94	90.77	101.47	145.90	99.26
	apr-20	70.97%	63	68.60	65.98	74.04	64.42	84.86	135.29	85.65
			125	77.05	71.24	84.40	68.09	90.44	144.19	94.55
			250	91.18	86.51	96.59	82.75	101.60	151.22	101.58
			4000	94.12	92.55	95.72	90.92	98.13	146.54	96.90
	mag-20	98.79%	63	71.96	68.81	77.94	66.93	84.45	145.61	94.39
			125 250	79.08 91.04	74.52 86.99	85.07 96.28	71.23 83.02	91.99 101.84	148.51 153.38	97.30 102.16
			4000	91.04	95.08	96.28	93.93	99.42	149.37	98.15
	giu-20	83.91%	63	72.42	70.07	78.49	68.78	84.67	144.95	94.59
	0		125	79.82	75.01	85.75	72.19	92.00	147.48	97.12
			250	90.63	86.25	96.67	82.11	103.06	154.18	103.82
			4000	97.63	96.47	98.80	95.49	100.16	149.90	99.54
	lug-20	95.30%	63	73.47	71.04	77.75	69.48	84.03	142.10	91.04
			125	78.76	75.08	84.35	72.76	91.04	146.06	95.00
			250 4000	89.35	84.83	95.44	81.15	103.49	152.85	101.79
	ago-20	98.25%	63	98.03 75.32	96.98 72.81	99.17 79.85	96.09 71.08	100.46 85.58	151.10 145.73	100.04 94.54
	ag0-20	50.23%	125	75.32	75.01	82.74	73.13	89.81	143.42	94.54
			250	87.04	82.30	93.53	78.96	102.98	151.52	100.33
			4000	97.98	96.94	99.09	96.04	100.46	150.94	99.75
	set-20	100.00%	63	76.22	73.35	81.32	71.74	86.74	147.87	96.75
			125	80.61	77.01	85.94	74.71	92.60	146.70	95.58
			250	90.71	86.48	96.37	83.84	103.11	152.48	101.36
	- ++ 20	00.46%	4000	97.70	96.64	99.15	95.75	101.55	151.63	100.51
	ott-20	99.46%	63 125	76.97 81.38	71.85 75.47	85.21 87.74	70.06 72.53	90.82 95.26	152.55 148.58	101.32 97.34
			250	92.84	88.32	98.16	83.15	104.49	148.38	103.50
			4000	97.42	96.07	99.81	95.09	103.98	153.36	102.12
	nov-20	99.72%	63	74.21	70.47	83.23	69.05	89.35	153.69	102.58
			125	80.49	74.64	86.67	71.59	94.64	148.30	97.19
			250	94.76	90.29	100.07	86.65	105.81	156.28	105.17
			4000	96.97	95.36	99.65	94.17	103.36	153.20	102.08
	dic-20	98.66%	63	74.23	68.74	86.44	67.50	91.86	148.40	97.19
			125 250	83.23 95.99	75.39 91.34	89.24 101.09	71.04 88.09	94.12 106.25	147.10 155.65	95.89 104.44
			4000	95.87	91.34	98.40	92.56	100.23	150.89	99.68
	gen-21	95.70%	63	72.53	67.67	81.96	66.55	86.99	144.58	93.51
			125	79.56	74.44	85.22	71.11	91.30	145.09	94.01
			250	95.22	90.71	100.39	87.93	106.18	156.38	105.30
			4000	94.15	92.24	97.40	90.81	101.53	150.96	99.89
	feb-21	98.96%	63	70.22	68.32	79.51	67.73	88.51	141.36	90.57
			125	78.65	74.55	84.92	71.98	91.16	147.99	97.21
		+ +	250 4000	95.60 93.96	91.42 92.09	100.87 97.19	88.52 90.72	106.24 101.56	156.95 152.35	106.17 101.56
	mar-21	24.60%	63	68.97	66.54	71.04	65.21	77.42	124.30	79.13
		2	125	76.03	71.19	84.19	68.62	91.56	136.43	91.26
			250	94.72	91.18	99.98	86.10	105.56	149.66	104.49
			4000			99.25	90.90	102.86		
	apr-21	0.00%		nan	nan	nan	nan	nan	nan	nan
					nan	nan	nan	nan	nan	nan
				nan	nan	nan	nan	nan	nan	nan
	mag 21	00 4 404	4000		nan	nan 75.51	nan 67.13	nan	nan	nan
	mag-21	88.44%	63 125	70.24	68.07 72.17	75.51 82.37	67.13	80.43 90.53	135.49 143.22	84.76 92.49
			250	91.75	87.63	97.12	84.47	103.51	143.22	103.05
			4000	96.15	94.94	97.54	93.85	99.91	149.34	98.60
	giu-21	100.00%	63	69.89	68.71	72.29	67.91	76.80	141.17	90.04
			125	76.04	72.20	83.40	70.49	90.75	147.02	95.89
			125	70.04	72.20	05.40	70.45	50.75	147.02	55.65
			250	88.26	83.38	94.51	80.09	99.57	152.81	101.68



Station	Time	Data availability	Freq	50 EL	75 EL	25 EL	90 EL	10 EL	T_SPL	AV_SPL
MS2	ALL	75.84%	63	93.92	85.01	101.28	76.70	107.18	167.30	105.28
			125	98.31	91.06	104.82	83.80	109.98	170.66	108.63
			250	91.89	84.63	98.44	78.74	103.86	169.92	107.90
			4000	89.98	87.67	92.53	85.71	94.68	157.48	95.46
	mar-20	99.84%	63	94.51	88.16	100.85	82.97	106.53	157.42	106.18
			125	98.35	94.73	103.65	91.64	108.79	157.87	106.62
			250	95.10	91.75	98.90	88.48	103.89	154.88	103.64
			4000	89.29	87.53	91.33	86.33	93.56	144.14	92.90
	apr-20	100.00%	63	95.46	85.88	101.94	77.02	106.87	154.10	102.97
			125	99.70	93.75	104.98	88.18	109.45	156.72	105.59
			250	92.51	86.09	98.92	80.65	104.03	151.12	99.99
	mag-20	1.39%	4000 63	88.50 85.55	87.18 84.45	90.26 101.24	86.17 82.10	92.51 112.69	142.27 143.98	91.14 111.62
	mag-20	1.39%	125	98.60	96.11	101.24	92.92	121.80	143.98	116.31
			250	90.52	86.56	99.27	84.66	124.31	150.36	118.00
			4000	92.27	91.05	94.15	89.99	105.07	132.34	99.98
	giu-20	100.00%	63	98.38	87.92	106.69	79.02	111.99	161.05	109.92
	0.0 20		125	102.51	95.18	109.45	86.00	114.48	164.82	113.69
			250	94.56	87.05	101.08	79.79	106.57	165.88	114.75
			4000	93.66	92.56	95.19	91.68	97.76	149.81	98.68
	lug-20	56.80%	63	95.02	84.77	103.40	76.47	111.20	158.86	110.05
			125	99.63	90.52	106.93	81.82	113.89	162.52	113.71
			250	91.25	83.55	98.32	78.43	105.83	164.09	115.27
			4000	94.09	93.01	95.65	92.19	98.25	148.13	99.32
	ago-20	98.25%	63	82.86	77.05	88.73	72.54	96.49	149.48	98.29
			125	86.05	80.75	92.55	76.74	97.85	151.23	100.04
			250	81.11	77.39	85.59	74.59	91.51	150.03	98.85
		100.000/	4000	92.22	90.69	93.62	89.45	95.03	144.94	93.76
	set-20	100.00%	63	93.37	83.26	100.95	74.41	107.06	155.46	104.33
			125	95.25	85.84	102.62	78.94	108.70	157.92	106.79
			250 4000	88.98 90.07	81.90	96.20	76.58	102.23 94.33	155.39	104.26
	ott-20	55.84%	63	95.53	88.93 84.21	91.63 103.30	88.01 75.26	108.01	146.25 153.30	95.13 104.56
	011-20	55.6470	125	99.13	87.15	105.81	81.56	110.04	155.59	104.30
			250	93.26	84.52	99.84	78.75	103.93	153.90	105.17
			4000	88.60	87.16	90.18	85.99	92.31	143.53	94.80
	nov-20	100.00%	63	96.46	88.97	102.58	79.62	107.39	154.92	103.84
			125	101.18	93.39	107.04	87.17	111.34	158.24	107.16
			250	95.19	87.38	101.63	82.03	106.45	154.66	103.58
			4000	89.16	87.75	90.90	86.61	93.05	142.91	91.83
	dic-20	66.43%	63	94.48	88.17	99.81	73.80	105.20	152.78	103.30
			125	98.04	91.47	103.36	84.29	107.61	155.20	105.72
			250	93.28	88.40	98.28	80.71	103.21	151.00	101.53
			4000	87.33	85.29	89.28	80.07	91.55	140.03	90.56
	gen-21	6.45%	63	85.80	76.09	92.94	61.42	99.72	141.07	101.76
			125	93.06	87.12	99.04	63.33	104.39	142.23	102.92
			250	90.62	83.33	97.95	65.86	103.39	142.54	103.23
	feb-21	100.00%	4000 63	85.33 95.08	83.48 88.27	87.49	77.61 80.88	89.81 107.10	127.76	88.45 103.89
	160-21	100.00%	125	95.08	94.61	101.31 106.45	90.27	107.10	154.72 158.25	103.89
			250	96.11	94.81	106.43	87.02	106.94	158.25	107.43
			4000	86.30	84.18	89.10	87.02	92.05	141.44	90.61
	mar-21	100.00%	63	96.15	89.03	102.87	79.71	108.01	155.42	104.15
			125	101.08	95.40	106.46	90.63	111.00	158.61	107.34
			250	94.24	89.21	100.41	85.24	105.52	154.50	103.23
			4000	87.03	85.55	89.30	84.49	92.28	141.84	90.57
	apr-21	33.23%	63	91.49	74.93	100.23	62.29	105.74	154.32	107.99
			125	95.53	87.61	103.15	63.71	108.03	161.10	114.77
			250	87.46	80.15	95.91	66.11	101.69	159.64	113.32
			4000	87.12	85.37	88.65	77.70	90.44	151.80	105.47
	mag-21	100.00%	63	92.31	84.21	98.72	77.80	104.48	152.38	101.11
			125	96.11	90.15	101.98	85.26	106.88	155.21	103.94
			250	86.38	81.58	93.60	78.33	99.26	147.54	96.27
			4000	89.98	88.63	91.39	87.47	92.70	142.48	91.21
	giu-21	100.00%	63	94.22	86.33	101.10	78.86	106.32	153.86	102.73
			125	99.99	92.91	105.40	85.82	109.31	157.06	105.94
			250	90.30	82.85	96.45	77.03	100.85	150.92	99.79
			4000	92.01	90.81	93.37	89.78	94.71	144.81	93.69



M33All.76.0867.0967.4776.4087.4087.4015.0098.83III </th <th>Station</th> <th>Time</th> <th>Data availability</th> <th>Freq</th> <th>50 EL</th> <th>75 EL</th> <th>25 EL</th> <th>90 EL</th> <th>10 EL</th> <th>T SPL</th> <th>AV SPL</th>	Station	Time	Data availability	Freq	50 EL	75 EL	25 EL	90 EL	10 EL	T SPL	AV SPL
image   image <th< th=""><th>MS3</th><th>ALL</th><th>76.68%</th><th>-</th><th>67.60</th><th>64.77</th><th>74.63</th><th>62.46</th><th>83.87</th><th>156.60</th><th>94.53</th></th<>	MS3	ALL	76.68%	-	67.60	64.77	74.63	62.46	83.87	156.60	94.53
Image <th< th=""><th></th><th></th><th></th><th>125</th><th>69.73</th><th>66.48</th><th>76.75</th><th>65.14</th><th>83.82</th><th>150.92</th><th>88.85</th></th<>				125	69.73	66.48	76.75	65.14	83.82	150.92	88.85
Mar 20   100.00%   66   66.85   75.49   60.14   61.25   73.20   65.41   61.25   61.20   63.50   73.50   63.50   73.50   63.50   73.50   63.50   73.50   63.50   73.50   63.50   73.50   63.50   73.50   73.51   133.31   73.51 <t< th=""><th></th><th></th><th></th><th>250</th><th>78.56</th><th>72.56</th><th>84.50</th><th>69.06</th><th>89.48</th><th>153.77</th><th>91.70</th></t<>				250	78.56	72.56	84.50	69.06	89.48	153.77	91.70
Image   Image <th< th=""><th></th><th></th><th></th><th>4000</th><th>88.58</th><th>86.10</th><th>91.25</th><th>84.06</th><th>93.73</th><th>154.07</th><th>92.00</th></th<>				4000	88.58	86.10	91.25	84.06	93.73	154.07	92.00
Image   Image <th< th=""><th></th><th>Mar-20</th><th>100.00%</th><th>63</th><th>65.66</th><th>60.85</th><th>75.49</th><th>60.14</th><th>85.25</th><th>141.17</th><th>89.90</th></th<>		Mar-20	100.00%	63	65.66	60.85	75.49	60.14	85.25	141.17	89.90
Apr 20   73.38   64   65.70   97.77   96.73   97.78   97.81   97.80   91.81     Apr 20   73.38   125   67.65   64.07   74.32   63.43   57.31   13.31   85.55     Apr 20   75.65   64.07   74.32   63.46   85.67   72.81   13.95   90.1     May 20   0.00%   63   nan					73.24	65.41	80.68	63.76	85.90	139.69	88.42
Apr-20   73.33   133.3 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>90.78</th></t<>											90.78
Image   125   77.66   64.07   74.32   67.35   173.22   173.72   173.72   173.72   173.72   173.72   173.72   173.72   173.72   173.72   173.72   173.72   173.72   173.72   173.72   173.72   173.73   173.72   173.73											91.83
Image   Image <th< th=""><th></th><th>Apr-20</th><th>73.33%</th><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th>83.53</th></th<>		Apr-20	73.33%							1	83.53
Image <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th><th></th><th></th><th></th></th<>							1				
May-20   0.00%   32 man   nan    1   10   0											
Image   Image <th< th=""><th></th><th></th><th>0.00%</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>			0.00%								
nnn11 <th></th> <th>Iviay-20</th> <th>0.00%</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		Iviay-20	0.00%								
int   int <th></th>											
Jun-20   99.03%   63   62.05   60.04   60.08   00.32   72.31   144.68   97.3     125   66.06   64.54   69.09   63.80   63.81   89.40   97.33   144.90   95.33     Jul-20   100.00%   63   68.89   65.81   74.01   63.12   72.31   140.73   89.44     Jul-20   100.00%   63   66.62   77.38   65.25   77.46   143.53   140.0   93.33   141.00   93.33   141.00   93.34   140.0   93.34   140.0   93.34   140.0   93.34   140.0   93.34   140.0   93.34   141.00   93.34   142.04   93.82   142.00   93.32   142.00   93.32   142.00   93.32   142.00   93.32   142.00   93.32   142.00   93.23   142.00   93.23   142.00   93.23   142.00   93.24   142.00   93.24   142.00   93.24   142.00   93.24   142.00   93.24   142.00											
m   125   66.06   64.54   90.99   73.80   75.22   141.95   92.0     1   1   1   1   1   1   1   93.15   134.22   92.39   144.39   95.33     1		Jun-20	69.03%							-	
Image: bit is a start of the start		5411 20	0510570								92.04
Image   4000   87.79   85.81   89.96   84.22   92.93   144.93   95.94     Image   100.00%   63   66.90   73.70   63.12   79.33   144.93   135.37   78.14     Image   125   69.29   76.00   73.13   84.42   70.27   88.83   138.37   77.13     Image   100.00%   63   69.84   66.22   77.57   64.32   83.63   144.14   92.64     Image   125   77.53   67.33   76.31   65.01   63.84   100.14   90.66   138.41   67.13     Image   125   77.95   67.33   76.31   63.86   61.21   63.22   160.53   112.10   93.12   132.12   106.53   112.10   93.12   132.11   136.33   141.10   43.3     Image   120   76.35   71.77   78.31   86.05   142.13   93.01   142.13   93.01   142.13   93.01   142.13   93.01											95.38
jul.20   100.00%   63   68.89   65.18   74.01   63.12   79.53   140.73   89.44     125   69.20   73.19   64.22   70.27   88.43   133.28   64.0     4000   67.15   84.84   90.21   83.14   92.72   133.28   64.0     Aug-20   100.00%   65   69.84   66.22   75.79   64.23   83.63   144.14   92.84     125   70.54   67.33   76.31   65.31   140.44   90.44   138.41   67.14     126   70.54   67.37   70.86   80.12   153.23   1165.51     5   69.20   36.32%   66.42   73.27   65.53   80.95   1141.09   94.3     125   67.23   65.55   71.77   83.15   69.40   83.21   125.23   134.25   82.9     126   77.23   65.55   71.74   64.36   78.81   134.25   82.9   142.13   55.4   142.13											95.42
250   79.20   73.19   84.82   70.27   88.83   138.37   67.11     Aug-20   100.00%   651   69.84   66.22   75.79   64.23   83.43   144.14   92.83     Aug-20   100.00%   653   69.84   66.22   75.79   64.23   83.63   144.14   92.84     Composition   250   79.98   66.31   70.37   86.641   70.44   90.46   138.41   87.13     Sep-20   36.32%   663   67.07   64.94   71.89   63.98   80.12   153.23   106.55     Coct-20   100.00%   63   55.44   91.21   93.76   83.93   95.01   142.10   93.4   93.01   142.13   95.4     Coct-20   100.00%   63   65.64   70.70   63.82   84.83   134.25   82.9     Coct-20   100.00%   63   65.66   77.77   63.98   83.10   140.35   89.2     Coct-20   100.00%		Jul-20	100.00%				1				89.46
4000   87.15   84.84   90.21   83.14   92.72   141.60   90.3     Aug-20   100.00%   63   69.84   66.22   75.79   64.23   83.63   144.14   92.8     125   70.54   67.33   76.31   65.90   83.15   137.83   66.5     250   79.96   73.55   86.41   70.44   90.46   93.32   142.07   90.53     Sep-20   36.326   63   67.07   64.94   71.89   63.90   80.12   153.23   106.5     4000   92.54   91.21   93.76   89.91   55.01   142.00   95.2     4000   90.54   91.21   93.76   89.91   150.11   142.13   55.4     401   200   75.86   70.90   80.82   84.69   137.80   85.7   93.91   55.01   140.35   89.2     40.40   90.45   88.16   92.45   85.10   140.35   93.7   93.85   141.36				125	69.29	66.62	73.78	65.25	79.46	135.28	84.02
Aug-20   100.00%   63   69.34   66.22   75.79   64.23   83.63   144.14   92.83     1   125   70.54   67.33   76.53   86.50   83.15   137.83   66.53     1   125   70.54   67.37   90.91   84.09   93.32   142.07   90.8     1   250   76.95   71.77   83.15   69.04   88.07   80.91   133.23   142.07   90.8     1   250   76.95   71.77   83.15   69.04   88.07   89.91   95.01   142.13   95.4     1   200.00%   63   55.44   64.05   70.70   63.47   78.31   134.2.5   89.91   95.01   142.13   95.4     1   125   71.73   65.55   71.74   64.96   76.83   132.97   131.7     1   100.00%   63   56.45   71.77   63.88   85.10   140.33   89.2.7     1   100.00%				250	79.20	73.19	84.82	70.27	88.83	138.37	87.10
n   125   70.54   67.33   76.31   65.90   83.15   137.83   66.53     250   79.98   73.55   86.41   70.44   90.46   138.41   87.11     5ep-20   36.32%   63   67.07   64.94   77.18   63.53   80.12   153.23   106.5     125   68.42   66.42   73.27   65.53   80.95   141.00   93.2     125   67.95   71.77   83.15   69.40   88.26   142.00   95.2     125   67.23   65.55   71.74   63.47   78.31   134.25   82.9     0ct-20   100.00%   63   65.44   64.05   77.77   63.38   85.10   140.38   83.12     125   67.23   65.55   71.74   63.38   86.51   144.36   93.0   84.17   133.84   82.7     131   100.00%   63   69.67   65.66   77.77   63.38   85.10   140.35   82.2   4				4000	87.15	84.84	90.21	83.14	92.72		90.33
Image   Image <th< th=""><th></th><th>Aug-20</th><th>100.00%</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>92.88</th></th<>		Aug-20	100.00%								92.88
Image   Image <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>86.58</th></th<>											86.58
Sep-20   36.32%   63   67.07   64.94   71.89   63.38   80.12   153.23   106.5     125   66.42   73.27   65.53   80.95   141.00   94.3     1250   76.95   71.77   83.15   69.40   88.26   142.00   95.2     0   100.00%   63   65.44   64.05   70.70   63.47   78.31   134.25   82.9     0   125   67.23   65.55   71.74   64.96   76.83   132.97   81.78     0   100.00%   63   67.62   65.55   71.74   64.96   76.83   132.97   81.7     100.00%   63   70.45   88.16   92.83   86.66   93.45   84.69   137.80   85.74   48.17   133.84   82.7     101   102.00%   63   70.48   65.66   80.15   64.51   92.72   143.04   91.7     102   100.00%   63   70.48   65.60   80.15 <th></th> <th>87.15</th>											87.15
125   66.42   73.27   65.53   80.95   141.09   94.3     200   76.95   71.77   83.15   69.40   88.26   142.09   95.2     0ct-20   100.00%   63   65.44   64.05   70.70   63.47   78.31   134.25   82.97     0ct-20   100.00%   63   65.44   64.05   70.70   63.47   78.31   134.25   82.97     0ct-20   100.00%   63   65.74   65.66   77.77   63.98   85.10   140.03   89.22     0ct-20   100.00%   63   65.77   65.66   77.77   63.98   85.10   140.03   89.22     125   71.13   76.78   86.90   69.86   91.52   142.54   91.4     125   71.24   67.99   80.45   65.77   85.66   13.75   88.44   93.7     126   100.00%   63   70.04   66.55   76.77   85.64   70.43   91.15   145.38											
Image: book of the second se		Sep-20	36.32%							-	
Image: space of the system of the s											
Oct-20   100.00%   63   65.44   64.05   70.70   63.47   78.31   134.25   82.93     Image: Construct of the state o											
Image: space of the system of the s		0.00	100.00%								
1 1 250 75.86 70.90 80.82 68.32 84.69 137.80 86.5   1 4000 90.45 88.16 92.83 86.65 95.45 144.36 93.00   Nov-20 100.00% 63 69.67 65.06 77.77 63.98 85.10 140.35 83.2   1 250 82.11 67.67 86.90 69.86 91.52 142.54 91.44   1 250 82.11 75.67 86.90 69.86 91.52 142.54 91.44   1 250 82.11 73.24 67.99 80.45 65.57 85.66 139.75 88.47   1 250 81.66 75.77 86.64 70.43 91.15 143.54 94.1   1 250 81.65 75.77 86.64 70.43 91.15 143.84 92.55 143.98 92.57 143.98 92.57 143.98 92.7 13.91 87.2   1 31.87 73.10 67.75 78.89 65.34 82.56 134.71		Oct-20	100.00%				1			1	
Nov-20   100.00%   63   69.67   65.66   77.77   63.98   85.10   144.36   93.0     Nov-20   100.00%   63   69.67   65.06   77.77   63.98   85.10   140.35   89.2     125   71.13   67.08   78.95   65.74   84.17   13.84   82.7     126   250   82.11   75.67   86.90   69.86   91.52   142.54   91.4     126   4000   89.69   87.43   92.65   88.87   96.18   144.05   92.9     127   100.00%   63   70.48   67.99   80.45   65.77   85.66   139.75   88.44     1   250   81.66   75.77   86.44   70.43   91.15   143.98   92.7     1   328.0%   63   70.04   66.55   76.77   65.12   85.57   133.51   87.2     1   328.0%   63   70.04   65.55   76.77   86.80   134.71											
Nov-20   100.00%   63   69.67   65.06   77.77   63.98   85.10   140.35   89.2     Image: Construct State											
Image: space of the system of the s		Nov-20	100.00%								
Image: style											82.72
Image: biologic											91.42
125 73.24 67.99 80.45 65.77 85.66 139.75 88.44   125 81.66 75.77 86.64 70.43 91.15 145.38 94.1   125 32.80% 63 70.04 66.55 76.77 65.12 85.57 133.51 88.49   125 73.10 67.75 78.89 65.34 82.56 134.71 88.47   125 73.10 67.75 78.89 65.84 82.56 134.71 88.47   125 73.10 67.75 78.89 65.84 82.56 134.71 88.47   125 73.10 67.75 78.89 65.84 82.56 134.71 88.47   125 63.166.85 76.39 85.75 71.42 88.07 138.99 92.77   125 68.49 67.14 73.67 66.46 81.23 138.51 89.75   125 76.48 66.25 82.10 67.97 86.89 142.51 95.55   125 71.87 67.60 79.57 66.56 86.50 <th></th> <th></th> <th></th> <th>4000</th> <th>89.69</th> <th>87.43</th> <th>92.65</th> <th>85.87</th> <th>96.18</th> <th></th> <th>92.93</th>				4000	89.69	87.43	92.65	85.87	96.18		92.93
1 250 81.66 75.77 86.64 70.43 91.15 145.38 94.11   1 32.80% 63 70.44 66.55 76.77 65.12 85.57 133.51 87.27   1 32.80% 63 70.44 66.55 76.77 78.89 65.84 82.55 134.71 88.72   1 125 73.10 67.75 78.89 65.84 82.55 134.71 88.42   1 250 81.25 76.39 85.75 71.42 88.07 138.99 92.7   1 4000 88.01 85.59 91.29 84.00 93.75 138.80 91.59   1 41.52% 63 66.86 66.36 68.29 65.93 76.50 144.58 97.55   1 125 68.49 67.14 73.67 66.46 81.23 136.75 89.75   1 4000 84.38 82.42 87.64 80.02 90.66 137.68 90.65   1 100.00% 63 70.38 66.18 79.		Dec-20	100.00%	63	70.48	65.60	80.15	64.51	92.72	143.04	91.77
Jan-21 32.80% 63 70.04 66.55 76.77 65.12 85.57 133.51 87.22   Jan-21 32.80% 63 70.04 66.55 76.77 65.12 85.57 133.51 87.22   Jan-21 32.80% 63 70.04 66.55 76.77 65.12 85.57 133.51 87.22   Jan-21 125 73.10 67.75 78.89 65.84 82.56 134.71 88.44   Jan-21 4000 88.01 85.59 91.29 84.00 93.75 138.20 91.92   Feb-21 41.52% 63 66.86 66.36 68.29 65.93 76.50 144.58 97.55   Gat 125 68.49 67.14 73.67 66.46 81.23 136.75 89.75   Mar-21 100.00% 63 70.38 66.18 79.13 65.08 87.83 138.64 87.33   Mar-21 100.00% 63 70.82 72.98 38.33 69.92 88.58 139.06 87.7   Mar-21				125	73.24	67.99	80.45	65.77	85.66	139.75	88.48
Jan-21 32.80% 63 70.04 66.55 76.77 65.12 85.57 133.51 87.2   Image: Construction of the state st				250	81.66	75.77	86.64	70.43	91.15	145.38	94.11
125 73.10 67.75 78.89 65.84 82.56 134.71 88.44   1250 81.25 76.39 85.75 71.42 88.07 138.99 92.7   1250 81.01 85.59 91.29 84.00 93.75 138.30 91.9   125 64.00 88.01 85.59 91.29 84.00 93.75 138.30 91.9   125 68.49 67.14 73.76 66.46 81.23 136.75 89.7   125 68.49 67.14 73.67 66.46 81.23 136.75 89.7   125 76.04 69.25 82.10 67.97 86.89 142.51 95.57   125 71.87 67.60 79.57 66.05 86.00 138.40 87.31   125 71.87 67.60 79.57 66.05 86.50 138.40 87.31   125 71.87 67.60 79.57 66.05 86.50 138.40 87.31   125 71.87 67.60 79.57 66.05 86.50 138.40				4000	89.65	86.95	92.13	84.99	95.05	143.98	92.71
Image: space of the system   Space of the syste		Jan-21	32.80%		1		1			1	87.23
4000   88.01   85.59   91.29   84.00   93.75   138.20   91.99     Feb-21   41.52%   63   66.86   66.36   68.29   65.93   76.50   144.58   97.53     125   68.49   67.14   73.67   66.46   81.23   136.75   89.75     125   68.49   67.14   73.67   66.46   81.23   136.75   89.75     125   76.04   69.25   82.10   67.97   86.89   142.51   95.55     100.00%   63   70.38   66.18   79.13   65.08   87.83   138.64   87.33     100.00%   63   70.38   66.18   79.13   65.08   86.50   138.40   87.13     101   125   71.87   67.60   79.57   66.05   86.50   138.40   87.73     100.00%   63   66.86   64.98   74.00   64.36   84.92   139.77   88.60     125   71.67   67.22   <					1		1				88.42
Feb-21   41.52%   63   66.86   66.36   68.29   65.93   76.50   144.58   97.53     1   125   68.49   67.14   73.67   66.46   81.23   136.75   89.7     1   250   76.04   69.25   82.10   67.97   86.89   142.51   95.5     1   4000   84.83   82.42   87.64   80.02   90.36   137.68   90.6     Mar-21   100.00%   63   70.38   66.18   79.13   65.08   87.83   138.64   87.33     1   100.00%   63   70.82   72.98   83.83   69.92   88.58   139.06   87.73     1   4000   86.34   84.47   88.55   82.95   90.79   139.98   88.7     1   100.00%   63   66.86   64.98   74.00   64.36   84.92   139.77   88.69     1   100.00%   63   69.77   67.22   80.46   65.61											92.70
125 68.49 67.14 73.67 66.46 81.23 136.75 89.7   125 76.04 69.25 82.10 67.97 86.89 142.51 95.5   126 4000 84.83 82.42 87.64 80.02 90.36 137.68 90.6   125 71.87 67.60 79.57 66.05 87.83 138.64 87.33   125 71.87 67.60 79.57 66.05 86.50 138.40 87.13   125 71.87 67.60 79.57 66.05 86.50 138.64 87.33   125 71.87 67.60 79.57 66.05 86.50 138.40 87.13   125 71.87 67.60 79.57 66.05 86.50 138.40 87.13   125 71.67 67.22 83.83 69.92 88.58 139.06 87.77   100.00% 63 66.86 64.98 74.00 64.36 84.92 139.77 88.64   125 71.67 67.22 80.46 65.61 88.02											91.92
1 250 76.04 69.25 82.10 67.97 86.89 142.51 95.55   1 4000 84.83 82.42 87.64 80.02 90.36 137.68 90.66   Mar-21 100.00% 63 70.38 66.18 79.13 65.08 87.83 138.64 87.33   1 125 71.87 67.60 79.57 66.05 86.09 133.40 87.33   1 250 78.82 72.98 83.83 69.92 88.58 139.06 87.71   1 4000 86.34 84.47 88.55 82.95 90.79 139.98 88.71   1 4000 86.34 84.47 88.55 82.95 90.79 139.98 88.71   1 100.00% 63 66.86 64.98 74.00 64.36 84.92 139.77 88.64   1 100.00% 63 66.86 73.76 85.70 69.08 92.28 141.07 99.94   1 4000 90.23 88.23 92.78 86.43		Feb-21	41.52%								97.58
4000   84.83   82.42   87.64   80.02   90.36   137.68   90.66     Mar-21   100.00%   63   70.38   66.18   79.13   65.08   87.83   138.64   87.33     Image: Constraint of the system of the syste											
Mar-21   100.00%   63   70.38   66.18   79.13   65.08   87.83   138.64   87.33     125   71.87   67.60   79.57   66.05   86.50   138.40   87.13     125   71.87   67.60   79.57   66.05   86.50   138.40   87.13     125   78.82   72.98   83.83   69.92   88.58   139.06   87.7     125   4000   86.34   84.47   88.55   82.95   90.79   139.98   88.7     125   71.67   67.22   80.46   65.61   88.20   139.77   88.60     125   71.67   67.22   80.46   65.61   88.20   139.97   88.61     125   71.67   67.22   80.46   65.61   88.20   141.07   89.99     125   78.86   73.76   85.70   69.08   92.28   141.07   92.99     May-21   71.11%   63   69.77   65.81   78.03											
125   71.87   67.60   79.57   66.05   86.50   138.40   87.11     250   78.82   72.98   83.83   69.92   88.58   139.06   87.7     4000   86.34   84.47   88.55   82.95   90.79   139.98   88.7     Apr-21   100.00%   63   66.86   64.98   74.00   64.36   84.92   139.77   88.60     101   125   71.67   67.22   80.46   65.61   88.20   141.07   89.99     102   250   78.86   73.76   85.70   69.08   92.28   141.05   99.44     102   4000   90.23   88.23   92.78   86.43   94.99   144.10   92.99     May-21   71.11%   63   69.72   65.81   78.03   64.63   85.21   146.71   96.99     125   69.77   66.88   77.33   65.96   88.11   141.79   92.00     125   69.77   72.		Mar 21	100.00%								
Image: system of the		IVIdI-21	100.00%								
4000   86.34   84.47   88.55   82.95   90.79   139.98   88.77     Apr-21   100.00%   63   66.86   64.98   74.00   64.36   84.92   139.77   88.60     125   71.67   67.22   80.46   65.61   88.20   141.07   89.99     125   71.67   67.22   80.46   65.61   88.20   141.07   89.99     125   77.67   67.22   80.46   65.61   88.20   141.07   89.99     126   250   78.86   73.76   85.70   69.08   92.28   141.59   90.44     126   4000   90.23   88.23   92.78   86.43   94.99   144.10   92.99     125   69.72   65.81   78.03   64.63   85.21   146.71   96.99     125   69.77   66.88   77.33   65.96   88.11   141.79   92.00     125   69.72   72.83   85.06   69.41											
Apr-21   100.00%   63   66.86   64.98   74.00   64.36   84.92   139.77   88.66     125   71.67   67.22   80.46   65.61   88.20   141.07   89.99     125   71.67   67.22   80.46   65.61   88.20   141.07   89.99     125   77.67   67.22   80.46   65.61   88.20   141.07   89.99     126   4000   90.23   88.23   92.78   86.43   94.99   144.10   92.99     May-21   71.11%   63   69.72   65.81   78.03   64.63   85.21   146.71   96.99     125   69.77   66.88   77.33   65.96   88.11   141.79   92.00     250   78.72   72.83   85.06   69.41   92.72   145.11   95.33     4000   87.37   85.15   89.43   83.15   91.56   140.73   90.94     4000   87.37   85.15   89.43							1			1	
Image: second		Apr-21	100.00%							1	88.66
Image: Second			2000070								89.96
4000   90.23   88.23   92.78   86.43   94.99   144.10   92.99     May-21   71.11%   63   69.72   65.81   78.03   64.63   85.21   146.71   96.99     100   125   69.77   66.88   77.33   65.96   88.11   141.79   92.00     100   250   78.72   72.83   85.06   69.41   92.72   145.11   95.33     100   87.37   85.15   89.43   83.15   91.56   140.73   90.92     100.00%   63   68.12   66.02   73.73   65.22   85.85   142.34   91.22		1									
May-21   71.11%   63   69.72   65.81   78.03   64.63   85.21   146.71   96.92     1   125   69.77   66.88   77.33   65.96   88.11   141.79   92.00     1   250   78.72   72.83   85.06   69.41   92.72   145.11   95.33     1   4000   87.37   85.15   89.43   83.15   91.56   140.73   90.94     1   Jun-21   100.00%   63   68.12   66.02   73.73   65.22   85.85   142.34   91.25										-	92.99
Image: Normal System   Image: No		May-21	71.11%								96.92
Image: Second											
Jun-21 100.00% 63 68.12 66.02 73.73 65.22 85.85 142.34 91.2											95.33
				4000	87.37	85.15	89.43	83.15	91.56	140.73	90.94
125 68.42 66.56 73.96 65.87 85.64 142.93 91.8		Jun-21	100.00%	63	68.12	66.02	73.73	65.22	85.85	142.34	91.22
				125	68.42	66.56	73.96	65.87	85.64	142.93	91.81
						72.37	83.72	69.42	89.75	142.33	91.20
4000 86.28 83.75 89.01 81.85 90.82 139.61 88.4				4000	86.28	83.75	89.01	81.85	90.82	139.61	88.48



Station	Time	Data availability	Freq	50 EL	75 EL	25 EL	90 EL	10 EL	T_SPL	AV_SPL
MS4	ALL	61.78%	63	85.05	74.37	96.93	67.78	107.31	172.85	111.71
			125	100.73	94.55	107.04	88.90	113.02	172.51	111.38
			250	100.73	95.31	106.86	90.52	113.05	172.75	111.61
			4000	86.94	83.82	90.82	81.66	95.64	154.62	93.48
	mar-20	81.12%	63	87.96	77.30	99.57	67.78	111.03	164.53	114.17
			125	102.55	96.03	109.58	90.86	115.66	164.15	113.79
			250 4000	102.03	96.58	108.74	92.71	114.91	163.88	113.52 94.42
	207 20	99.74%		88.95	85.76	92.74	82.91	96.53	144.78	
	apr-20	99.74%	63 125	82.10 100.02	71.23 94.75	94.29 106.43	65.13 89.73	106.98 113.27	162.42 163.02	111.30 111.91
			250	100.02	96.69	100.43	91.90	113.27	163.75	111.91
			4000	84.48	81.69	87.79	79.90	91.29	142.31	91.20
	mag-20	100.00%	63	80.98	71.04	93.41	65.26	106.34	161.92	110.65
			125	99.25	93.26	105.76	88.09	112.38	162.12	110.85
			250	99.89	94.48	105.93	90.13	112.10	161.58	110.31
			4000	85.22	82.58	88.17	80.83	90.85	141.57	90.30
	giu-20	99.74%	63	80.27	71.28	93.09	66.44	105.27	161.28	110.17
			125	99.17	93.77	105.49	88.75	111.56	160.17	109.06
			250	100.14	95.07	105.84	90.45	111.77	160.48	109.38
			4000	85.46	82.91	88.70	81.27	92.02	142.29	91.18
	lug-20	100.00%	63	81.60	72.82	93.93	68.12	105.53	161.99	110.72
			125	99.38	94.12	105.53	89.00	111.57	160.73	109.47
			250	100.02	95.18	105.26	90.80	111.43	160.74	109.47
	205.20	00.040	4000	86.49	83.88	89.64	82.06	92.82	143.02	91.75
	ago-20	99.81%	63 125	77.06 94.43	69.77 88.05	89.20 102.09	65.87 82.96	102.97 109.20	161.45 159.36	110.20 108.11
		╂─────┤	250	94.43	88.05	102.09	82.96	109.20	160.12	108.11
		-	4000	86.18	83.44	88.81	81.52	91.66	143.26	92.01
	set-20	100.00%	63	79.71	72.35	90.81	68.36	103.68	160.92	109.80
	500 20	10010070	125	98.83	92.25	105.08	87.32	110.75	160.19	109.06
			250	98.53	93.13	104.58	89.14	110.29	160.37	109.25
			4000	86.69	84.31	89.54	82.76	92.95	143.64	92.51
	ott-20	43.28%	63	82.86	74.14	93.09	67.98	105.02	157.29	109.66
			125	101.04	94.44	106.91	87.88	112.71	158.69	111.05
			250	101.30	95.53	107.06	90.60	113.15	159.81	112.17
			4000	87.61	85.36	91.14	83.80	95.81	142.31	94.68
	nov-20	0.00%		nan	nan	nan	nan	nan	nan	nan
			125	nan	nan	nan	nan	nan	nan	nan
	-		250		nan	nan	nan	nan	nan	nan
	-li- 20	0.00%	4000	nan	nan	nan	nan	nan	nan	nan
	dic-20	0.00%	63	nan	nan	nan	nan	nan	nan	nan
-			125			nan	non		<b>n</b> 2 <b>n</b>	
			125	nan	nan	nan	nan	nan	nan	nan
			250	nan nan	nan nan	nan	nan	nan	nan	nan nan
	gen-21	0.00%	250 4000	nan nan nan	nan nan nan	nan nan	nan nan	nan nan	nan nan	nan nan nan
	gen-21	0.00%	250	nan nan nan	nan nan	nan	nan	nan	nan	nan nan
	gen-21	0.00%	250 4000 63 125	nan nan nan nan	nan nan nan nan	nan nan nan	nan nan nan	nan nan nan	nan nan nan	nan nan nan nan
	gen-21	0.00%	250 4000 63 125	nan nan nan nan nan nan	nan nan nan nan nan	nan nan nan nan	nan nan nan nan	nan nan nan nan	nan nan nan nan	nan nan nan nan nan
	gen-21 feb-21	0.00%	250 4000 63 125 250	nan nan nan nan nan nan	nan nan nan nan nan nan	nan nan nan nan nan	nan nan nan nan nan	nan nan nan nan nan	nan nan nan nan nan	nan nan nan nan nan nan
			250 4000 63 125 250 4000 63 125	nan nan nan nan nan 95.21 105.86	nan nan nan nan nan nan 85.45 100.68	nan nan nan nan nan 102.77 111.15	nan nan nan nan nan 74.54 95.77	nan nan nan nan nan 111.05 116.21	nan nan nan nan nan 163.55 164.16	nan nan nan nan nan nan 113.47 114.08
			250 4000 63 125 250 4000 63 125 250	nan nan nan nan nan 95.21 105.86 105.38	nan nan nan nan nan nan 85.45 100.68 100.63	nan nan nan nan nan 102.77 111.15 110.85	nan nan nan nan 74.54 95.77 95.97	nan nan nan nan 111.05 116.21 115.97	nan nan nan nan nan 163.55 164.16 163.19	nan nan nan nan nan 113.47 114.08 113.11
	feb-21	84.23%	250 4000 63 125 250 4000 63 125 250 4000	nan nan nan nan nan nan 95.21 105.86 105.38 88.88	nan nan nan nan nan 85.45 100.68 100.63 84.50	nan nan nan nan nan 102.77 111.15 110.85 94.08	nan nan nan nan nan 74.54 95.77 95.97 81.85	nan nan nan nan nan 111.05 116.21 115.97 97.82	nan nan nan nan 163.55 164.16 163.19 144.59	nan nan nan nan nan 113.47 114.08 113.11 94.51
			250 4000 63 125 250 4000 63 125 250 4000 63	nan nan nan nan nan 95.21 105.86 105.38 88.88	nan nan nan nan nan 85.45 100.63 84.50 81.05	nan nan nan nan nan 102.77 111.15 110.85 94.08 99.49	nan nan nan nan 74.54 95.77 95.97 81.85 75.49	nan nan nan nan 1111.05 116.21 115.97 97.82 109.72	nan nan nan nan 163.55 164.16 163.19 144.59 161.48	nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58
	feb-21	84.23%	250 4000 63 125 250 4000 63 125 250 4000 63 125	nan nan nan nan nan 95.21 105.86 105.88 88.88 80.48 102.78	nan nan nan nan nan 85.45 100.68 100.63 84.50 84.50 81.05 97.63	nan nan nan nan 102.77 111.15 110.85 94.08 99.49	nan nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52	nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12	nan nan nan nan 163.55 164.16 163.19 163.48 160.32	nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42
	feb-21	84.23%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250	nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 103.33	nan nan nan nan nan 85.45 100.68 100.63 84.50 81.05 97.63 98.10	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 109.37	nan nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50	nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88	nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.20	nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42 113.30
	feb-21 mar-21	84.23% 46.02%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000	nan nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 103.33	nan nan nan nan nan nan 85.45 100.68 100.63 84.50 84.50 87.63 98.10 84.51	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 109.37 92.87	nan nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21	nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65	nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.20 142.19	nan nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42 113.30 94.30
	feb-21	84.23%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 103.33 88.28	nan nan nan nan nan 85.45 100.68 100.63 84.50 81.05 97.63 98.10 84.51 87.13	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 108.49 109.37 92.87	nan nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21 81.35	nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06	nan nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.20 142.19 161.68	nan nan nan nan nan 113.47 113.58 113.11 94.51 113.58 112.42 113.30 94.30 94.30
	feb-21 mar-21	84.23% 46.02%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125	nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 103.33 88.28 95.95 104.44	nan nan nan nan nan 85.45 100.63 84.50 81.05 97.63 98.10 84.51 87.13 100.69	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 109.37 92.87 103.33 109.51	nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21 81.35 97.19	nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06 114.78	nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.20 142.19 161.68	nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42 113.30 94.30 94.30 112.56 112.77
	feb-21 mar-21	84.23% 46.02%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 103.33 88.28 95.95 104.44 103.49	nan nan nan nan nan 85.45 100.63 84.50 81.05 97.63 98.10 84.51 87.13 100.69 98.76	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 109.37 92.87 103.33 109.51 109.98	nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21 81.35 97.19	nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06 114.78 116.04	nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.20 142.19 161.68 161.89 163.22	nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42 113.30 94.30 912.56 112.77 114.09
	feb-21 mar-21 apr-21	84.23% 46.02% 63.06%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	nan nan nan nan nan 95.21 105.86 105.88 88.88 90.48 102.78 103.33 88.28 95.95 104.44 103.49 93.85	nan nan nan nan nan 85.45 100.68 100.63 84.50 81.05 97.63 98.10 84.51 87.13 100.69 98.76 88.83	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 109.37 92.87 103.33 109.51 109.98 97.46	nan nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21 81.35 97.19 95.33 84.37	nan nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06 114.78 116.04 100.08	nan nan nan nan 163.55 164.16 163.19 164.48 160.32 161.48 160.32 161.20 142.19 161.68 161.89 163.22 146.34	nan nan nan nan nan 113.47 114.08 113.47 114.08 113.47 113.58 112.42 113.30 94.30 94.30 112.56 112.77 114.09 97.22
	feb-21 mar-21	84.23% 46.02%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 103.33 88.28 95.95 104.44 103.49	nan nan nan nan nan 85.45 100.63 84.50 81.05 97.63 98.10 84.51 87.13 100.69 98.76	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 109.37 92.87 103.33 109.51 109.98	nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21 81.35 97.19	nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06 114.78 116.04 100.08 107.82	nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.20 142.19 161.68 161.89 163.22	nan nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42 113.30 94.30 112.56 112.77 114.09 97.22 113.53
	feb-21 mar-21 apr-21	84.23% 46.02% 63.06%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 250 4000 63	nan nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 103.33 88.28 95.95 104.44 103.49 93.85 87.07	nan nan nan nan nan nan 85.45 100.68 100.63 84.50 81.05 97.63 98.10 84.51 87.13 100.69 98.76 88.83 82.30	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 109.37 92.87 103.33 109.51 109.98 97.46 95.48	nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21 81.35 97.19 95.33 84.37	nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06 114.78 116.04 114.78 116.04 100.08 107.82 113.83	nan nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.20 142.19 161.68 161.89 163.22 146.34 159.55 157.28	nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42 113.30 94.30 112.56 112.77 114.09 97.22 113.53 111.27
	feb-21 mar-21 apr-21	84.23% 46.02% 63.06%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125	nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 103.33 88.28 95.95 104.44 103.49 93.85 87.07 104.80	nan nan nan nan nan nan 85.45 100.68 100.63 84.50 81.05 97.63 98.10 84.51 87.13 100.69 98.76 88.83 82.30	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 108.49 109.37 92.87 103.33 109.51 109.98 97.46 95.48 109.04	nan nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21 81.35 97.19 95.33 84.37 76.77 95.81	nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06 114.78 116.04 100.08 107.82	nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.20 142.19 161.68 161.89 163.22 146.34	nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42 113.58 112.56 112.77 114.09 97.22 113.53 111.27 110.98
	feb-21 mar-21 apr-21	84.23% 46.02% 63.06%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 102.78 103.33 88.28 95.95 104.44 103.49 93.85 87.07 104.80 100.93	nan nan nan nan nan 85.45 100.63 84.50 81.05 97.63 98.10 84.51 87.13 100.69 98.76 88.83 82.30 100.22	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 109.37 92.87 103.33 109.51 109.98 97.46 95.48 109.04	nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21 81.35 97.19 95.33 84.37 76.77 95.81 91.66	nan nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06 114.78 116.04 107.82 113.83 114.36	nan nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.20 142.19 161.68 161.89 163.22 146.34 159.55 157.28	nan nan nan nan nan 113.47 113.47 113.58 112.42 113.58 112.42 113.30 94.30 112.56 112.77 114.09 97.22 113.53 111.27
	feb-21 mar-21 apr-21 mag-21	84.23% 46.02% 63.06% 29.86%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 103.33 88.28 95.95 104.44 103.49 93.85 87.07 104.80 100.93 93.04	nan nan nan nan nan 85.45 100.63 84.50 81.05 97.63 98.10 84.51 87.13 100.69 98.76 88.83 82.30 100.22 95.38	nan nan nan nan 102.77 111.15 110.85 94.08 99.49 108.49 108.49 109.37 92.87 103.33 109.51 109.98 97.46 95.48 109.04 107.92 100.00	nan nan nan 74.54 95.77 95.97 81.85 75.49 93.52 94.50 82.21 81.35 97.19 95.33 84.37 76.77 95.81 91.66	nan nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06 114.78 116.04 100.08 107.82 100.08 107.82 113.83 114.36 103.06	nan nan nan nan 163.55 164.16 163.19 144.59 161.48 160.32 161.48 161.89 163.22 146.34 163.22 146.34 159.55 157.28 157.28	nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42 113.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 94.30 97.22 113.58 111.27 110.98 98.70
	feb-21 mar-21 apr-21 mag-21	84.23% 46.02% 63.06% 29.86%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	nan nan nan nan nan nan 95.21 105.86 105.38 88.88 90.48 102.78 102.78 102.78 90.44 103.33 88.28 95.95 104.44 103.49 93.85 87.07 104.80 100.93 93.04	nan nan nan nan nan nan an 85.45 100.68 100.63 84.50 84.50 84.51 87.13 100.69 97.63 98.10 84.51 87.13 100.69 9.8.76 88.83 82.30 100.22 95.38 88.6.77 88.10	nan nan nan nan 102.77 111.15 110.85 110.85 94.08 99.49 109.37 92.87 103.33 109.51 109.98 97.46 95.48 109.04	nan nan nan 74.54 95.77 95.97 95.97 81.85 75.49 93.52 93.52 94.50 82.21 81.35 97.19 95.33 84.37 76.77 95.81 91.66 82.73	nan nan nan nan nan 111.05 116.21 115.97 97.82 109.72 114.12 115.88 96.65 110.06 114.78 110.06 114.78 116.04 100.08 107.82 113.83 114.36 103.06 107.78	nan nan nan nan 163.55 164.16 163.19 164.48 160.32 161.48 161.48 161.48 161.89 163.22 146.34 159.55 157.28 157.28 157.08	nan nan nan nan nan nan 113.47 114.08 113.11 94.51 113.58 112.42 113.30 94.30 112.56 112.77 114.09 97.22 113.53 111.27 110.98 98.70 112.32



Station	Time	Data availability	Freq	50 EL	75 EL	25 EL	90 EL	10 EL	T_SPL	AV_SPL
MS5	ALL	95.68%	63	86.42	81.49	91.30	77.19	95.61	159.45	96.44
			125	90.23	86.55	93.75	82.86	97.49	159.34	96.33
			250	90.79	87.25	93.97	83.77	97.45	159.35	96.35
			4000	97.18	95.13	99.07	93.44	101.31	161.34	98.34
	mar-20	86.02%	63	87.72	83.39	92.10	79.36	96.05	144.27	93.66
			125	92.80	90.54	95.56	88.73	98.52	148.16	97.55
			250	93.29	91.38	95.37	89.84	98.42	147.95	97.34
			4000	95.36	93.39	97.08	92.12	98.24	146.67	96.06
	apr-20	93.34%	63	86.63	81.70	91.88	77.74	96.08	144.85	94.10
	-		125	91.45	88.63	95.10	86.41	99.45	148.81	98.06
			250	91.56	88.89	94.71	86.80	98.52	147.33	96.58
	20	100.000/	4000	95.55	94.02	98.26	93.04	99.53	148.00	97.25
	mag-20	100.00%	63 125	86.90 90.26	81.41	92.03 94.00	76.85	96.28	143.70	92.43 95.61
	-		250	89.87	86.98 87.15	94.00	84.56 85.02	98.18 97.92	146.87 147.15	95.81
	-		4000	97.51	96.06	100.27	95.08	101.37	147.15	95.88
	giu-20	90.77%	4000	84.44	79.04	89.74	75.10	94.29	146.11	98.78
	giu-20	50.7778	125	86.46	82.99	90.79	80.53	94.29	146.93	96.23
			250	87.11	83.99	90.57	81.56	94.51	144.69	93.99
			4000	98.55	97.15	101.36	96.36	102.69	150.65	99.95
	lug-20	100.00%	63	84.69	80.14	90.00	76.31	94.69	144.12	92.85
		100.00%	125	86.00	82.69	90.36	80.10	95.47	144.44	93.17
			250	87.05	84.10	90.88	81.89	95.96	145.09	93.82
			4000	99.16	98.00	101.90	97.26	102.80	151.79	100.52
	ago-20	87.27%	63	85.27	80.49	89.95	76.07	94.00	150.88	100.21
	-		125	86.45	82.82	90.45	79.88	94.76	148.10	97.43
			250	87.35	84.16	90.95	81.52	95.60	145.43	94.76
			4000	99.17	97.84	101.67	97.07	102.56	151.12	100.45
	set-20	100.00%	63	85.89	81.02	90.56	76.53	94.38	143.81	92.68
			125	86.17	82.77	90.07	80.35	93.61	143.70	92.58
			250	86.40	83.45	89.86	81.24	93.69	144.52	93.40
			4000	97.95	96.36	100.53	95.54	101.33	150.19	99.07
	ott-20	93.96%	63	87.18	82.78	91.61	78.95	95.98	150.11	99.11
			125	89.08	86.37	92.37	84.13	95.96	147.25	96.25
			250	89.60	87.33	92.41	85.33	96.37	146.99	95.99
			4000	97.26	95.08	98.77	94.24	99.68	148.79	97.79
	nov-20	100.00%	63	87.52	83.19	92.51	79.11	97.04	145.36	94.24
			125	91.78	88.91	95.15	86.61	99.44	148.84	97.72
			250	92.36	90.01	95.55	88.21	99.95	151.40	100.27
		100.000/	4000	97.72	95.62	99.01	94.48	100.00	149.28	98.16
	dic-20	100.00%	63	88.40	82.92	93.27	78.38	98.38	153.29	102.02
			125	92.22	89.40	94.93	87.28	98.10	149.07	97.80
			250 4000	93.08	90.74	95.59 97.45	89.01	98.30	149.95	98.68
	gen-21	89.52%	4000	96.09 87.15	94.53 82.79	97.45	93.44 79.18	98.50 95.83	148.12 147.01	96.85 96.23
	gen-21	85.32%	125	91.89	89.64	91.45	87.69	95.85	147.60	96.23
			250	91.89	91.17	95.01	89.45	98.38	147.05	96.82
			4000	95.07	93.14	96.60	91.92	97.56	146.47	95.69
	feb-21	100.00%	63	87.73	82.76	92.62	78.43	96.59	143.56	92.73
		100.00%	125	92.45	90.04	95.65	88.16	99.17	147.34	96.52
		1	250	93.29	91.61	95.76	90.17	99.26	148.11	97.28
			4000	95.30	92.90	96.61	91.70	97.54	146.56	95.73
	mar-21	99.85%	63	86.88	81.89	91.82	77.09	95.78	145.27	94.01
			125	92.09	89.77	95.06	87.46	98.27	148.27	97.01
			250	92.79	90.72	95.17	88.82	98.33	147.77	96.50
			4000	95.12	93.08	97.26	91.76	98.26	147.42	96.16
	apr-21	100.00%	63	87.38	82.91	91.83	78.51	95.54	142.96	91.84
			125	91.81	89.09	94.83	87.03	98.02	147.36	96.23
			250	91.83	89.75	94.50	87.71	97.83	147.30	96.18
			4000	95.81	94.02	98.45	93.23	99.35	148.21	97.09
	mag-21	100.00%	63	84.94	79.58	89.59	75.61	94.03	141.46	90.59
			125	88.40	85.34	91.73	82.85	95.18	143.63	92.76
			250	88.24	85.81	90.85	83.69	94.48	144.08	93.21
			4000	97.02	95.49	100.01	94.52	101.17	149.25	98.38
		00 5 29/	63	83.34	78.48	88.08	74.52	92.15	149.83	99.14
	giu-21	90.53%								
	giu-21	90.33%	125	85.23	81.99	89.36	79.48	93.88	145.53	94.84
	giu-21	90.33%								94.84 93.60 100.43



Station	Time	Data availability	Freq	50 EL	75 EL	25 EL	90 EL	10 EL	T_SPL	AV_SPL
MS6	ALL	91.31%	63	64.22	62.91	67.14	61.78	73.07	161.63	98.80
			125	69.97	66.43	75.43	65.08	81.09	156.04	93.21
			250	75.79	70.72	81.24	68.27	86.25	157.08	94.25
			4000	90.33	88.00	92.38	86.56	93.83	155.40	92.56
	mar-20	100.00%	63	62.89	61.58	66.49	60.92	75.97	137.52	86.25
			125	69.08	65.71	74.85	64.30	83.73	131.61	80.35
			250	74.79	69.83	81.09	67.62	88.30	136.31	85.05
	20	20.07%	4000	91.32	87.95	92.81	86.78	93.88	142.85	91.59
	apr-20	28.07%	63	62.44	61.39	64.94	60.77	70.50	117.71	72.11
	-		125 250	67.74 72.79	65.34 68.96	72.24 78.14	64.14 67.36	77.47 83.37	123.90 128.52	78.29
			4000	90.33	87.38	92.05	86.39	92.85	128.52	82.91 90.84
	mag-20	79.44%	63	62.85	61.67	65.84	60.99	70.19	137.57	87.31
	mag-20	75.4470	125	69.75	66.30	74.89	64.76	79.13	139.32	89.06
			250	75.52	70.85	80.71	68.10	84.50	136.28	86.02
			4000	90.44	88.83	93.58	87.73	94.84	142.60	92.34
	giu-20	90.28%	63	63.26	61.98	66.49	61.24	72.28	139.16	88.49
			125	69.99	66.55	75.25	64.91	79.94	143.33	92.65
			250	75.19	70.83	80.70	68.54	85.50	142.70	92.02
			4000	90.66	88.70	93.66	87.29	95.25	144.43	93.76
	lug-20	100.00%	63	63.93	62.41	68.48	61.57	75.01	137.88	86.62
			125	71.15	67.11	76.58	65.34	82.26	141.31	90.05
			250	76.72	71.72	81.90	69.05	87.87	143.59	92.33
			4000	90.04	88.39	93.00	87.16	94.75	146.03	94.77
	ago-20	87.33%	63	64.00	62.30	69.27	61.49	75.84	145.10	94.43
			125	71.78	67.22	77.51	65.34	83.23	145.40	94.73
			250	77.33	72.11	82.98	69.24	88.94	144.65	93.98
	1.20	100.000/	4000	90.51	88.28	92.85	87.06	94.19	146.07	95.40
	set-20	100.00%	63	63.31	62.04	66.62	61.35	72.07	130.33	79.21
			125 250	69.92 75.77	66.25 70.91	74.89 81.27	64.89 68.51	79.76 86.24	138.12 138.62	87.00 87.49
			4000	89.68	87.30	91.97	85.88	93.22	138.62	92.51
	ott-20	93.82%	4000	64.54	62.63	69.06	61.75	74.70	142.96	91.97
	011 20	55.6276	125	71.35	66.99	76.65	65.11	82.05	137.95	86.96
			250	78.06	72.57	82.65	68.75	86.89	139.09	88.10
			4000	90.14	88.14	91.74	86.70	93.01	143.17	92.18
	nov-20	100.00%	63	63.98	62.65	67.28	61.95	71.71	125.78	74.66
			125	69.63	66.14	75.03	64.94	79.39	130.35	79.23
			250	75.97	70.72	81.15	68.39	84.81	134.34	83.21
			4000	90.72	88.73	92.04	87.42	92.99	142.37	91.25
	dic-20	100.00%	63	64.90	63.10	70.93	62.40	79.34	126.21	74.94
			125	72.07	66.84	79.24	65.10	86.61	133.00	81.73
			250	77.52	71.07	84.08	68.15	90.41	137.02	85.75
			4000	91.62	89.71	93.00	87.73	94.27	143.95	92.68
	gen-21	91.13%	63	65.34	63.74	70.63	63.06	75.96	160.38	109.52
			125	72.46	67.27	79.44	65.61	84.07	153.81	102.96
			250 4000	78.61 91.32	72.11	84.55 92.41	68.93 87.18	88.37	144.54 142.80	93.68 91.94
	feb-21	100.00%	4000	91.32 64.33	89.14 63.51	92.41 66.36	62.99	93.39 72.18	142.80	91.94 74.19
	160-21	100.00%	125	69.14	65.98	74.13	64.92	80.06	125.02	74.19
			250	74.46	69.84	74.13	67.66	85.03	133.46	82.64
	1	1	4000	90.02	87.69	91.80	86.23	92.92	141.91	91.08
	mar-21	99.46%	63	64.47	63.70	66.67	63.20	71.57	137.74	86.50
			125	69.09	66.04	74.64	64.99	80.31	140.29	89.04
			250	75.15	69.66	80.89	67.55	85.58	137.58	86.33
			4000	89.30	86.49	91.27	84.82	92.40	142.56	91.31
	apr-21	100.00%	63	64.52	63.80	66.14	63.31	69.44	125.29	74.17
			125	69.57	66.39	74.33	65.29	78.29	128.28	77.16
			250	75.77	70.49	80.36	68.02	83.70	132.06	80.93
			4000	89.41	87.17	92.18	86.03	93.16	141.75	90.62
	mag-21	100.00%	63	64.40	63.82	65.41	63.37	67.80	119.95	68.69
			125	69.01	66.52	73.02	65.50	76.83	131.32	80.05
			250	74.85	70.81	79.23	68.38	82.57	134.23	82.97
			4000	89.23	87.63	92.54	86.59	93.91	142.65	91.38
					62.06	66.04	C2 40	70.24	4 - 4 4 -	103.73
	giu-21	91.09%	63	64.59	63.96		63.49	70.34	154.45	
	giu-21	91.09%	63 125 250	64.59 68.52 73.18	63.96 66.36 69.82	72.88	65.53 68.30	70.34 78.20 83.82	154.45 147.13 155.64	96.41



Station	Time	Data availability	Freq	50 EL	75 EL	25 EL	90 EL	10 EL	T_SPL	AV_SPL
MS7	ALL	76.34%	63	87.67	84.07	91.15	80.69	94.31	156.04	93.98
			125	91.17	87.83	94.48	84.74	97.42	161.17	99.12
			250	89.02	85.77	92.67	83.24	95.39	157.30	95.24
			4000	94.20	92.70	96.00	91.30	97.49	157.48	95.43
	mar-20	0.00%	63	nan	nan	nan	nan	nan	nan	nan
			125	nan	nan	nan	nan	nan	nan	nan
			250	nan	nan	nan	nan	nan	nan	nan
			4000	nan	nan	nan	nan	nan	nan	nan
	apr-20	0.00%	63	nan	nan	nan	nan	nan	nan	nan
			125	nan	nan	nan	nan	nan	nan	nan
			250	-	nan	nan	nan	nan	nan	nan
			4000		nan	nan	nan	nan	nan	nan
	mag-20	85.08%	63	88.61	85.04	92.31	81.93	95.59	145.07	94.51
			125	90.80	87.90	94.02	85.45	96.86	145.08	94.52
			250	87.20	84.92	89.48	82.77	91.63	141.93	91.37
			4000	93.45	92.17	95.68	91.44	96.61	145.07	94.51
	giu-20	100.00%	63	88.33	85.04	91.86	82.27	95.28	143.50	92.37
			125	90.13	87.54	92.98	85.25	95.88	145.72	94.59
			250	86.65	84.48	89.02	82.58	91.55	143.56	92.43
	hu= 20	100.00%	4000	94.50	93.37	96.75	92.52	97.85	146.90	95.78
	lug-20	100.00%	63 125	88.46 89.40	84.91 86.58	91.88 92.42	81.32 83.76	95.17 95.37	144.83 145.29	93.56 94.02
			250	89.40	86.58	92.42 88.11	83.76	95.37	145.29	94.02
			4000	95.04	93.93	97.36	93.28	90.93	145.17	93.90
	ago-20	99.98%	63	85.57	81.24	89.58	77.62	98.19	147.61	96.34
	460-20	33.38%	125	87.69	84.04	91.30	80.93	93.31	144.03	94.57
			250	85.93	83.37	88.44	81.16	90.93	144.52	93.25
			4000	96.10	94.76	98.34	94.08	99.16	148.61	97.34
	set-20	100.00%	63	85.83	81.93	89.75	78.41	93.49	141.26	90.13
			125	87.70	84.35	91.10	81.55	94.23	143.74	92.61
			250	85.68	83.61	87.97	81.65	90.31	139.70	88.57
			4000	95.50	93.73	97.21	93.02	97.96	147.30	96.17
	ott-20	100.00%	63	86.69	82.78	90.54	79.49	93.98	142.00	90.74
			125	90.06	86.94	92.93	84.39	95.81	144.32	93.05
			250	88.35	86.23	90.49	84.12	92.39	142.63	91.36
			4000	95.37	93.45	96.38	92.54	97.17	146.92	95.65
	nov-20	96.60%	63	86.30	82.43	90.16	79.11	93.33	141.37	90.39
			125	90.16	87.17	93.31	84.28	96.40	144.18	93.20
			250	88.43	86.17	90.56	83.97	92.61	141.42	90.44
			4000	94.84	92.88	95.92	91.82	96.69	145.98	95.00
	dic-20	89.11%	63	87.74	84.75	90.79	82.16	93.69	143.31	92.54
			125	92.52	90.06	95.08	87.76	97.83	146.44	95.67
			250	91.93	89.88	93.90	88.11	95.77	144.81	94.05
			4000	93.79	92.03	94.96	90.89	95.97	145.18	94.42
	gen-21	100.00%	63	88.24	85.27	91.30	82.40	94.32	142.08	90.81
			125	93.26	90.67	95.96	88.40	98.93	147.01	95.74
			250	92.92	91.02	94.71	89.29	96.45	145.54	94.27
	61.01	100.0531	4000	93.00	91.55	94.22	90.44	95.05	144.66	93.39
	feb-21	100.00%	63	89.51	86.31	92.48	83.48	95.28	142.75	91.92
			125	94.80	92.40	97.40	90.32	100.12	147.90	97.08
			250	94.45	92.78	96.25	91.35	98.06	146.54	95.71
	mar-21	100.00%	4000	92.17	90.52 87.29	93.70 92.78	89.45 84.47	94.90 95.37	143.64	92.82 91.97
	mar-21	100.00%							143.24	
			125 250	95.26 94.57	92.88 92.96	97.59 96.38	90.72 91.46	99.90 98.20	148.13 147.18	96.86 95.91
			4000	94.57	92.96	96.38	89.61	98.20	147.18	95.91
	apr-21	10.37%	63	89.23	86.17	93.43	82.75	94.30	143.91	92.04
	001-21	10.37%	125	93.08	90.44	92.08	87.93	94.70	132.42	91.14
			250	93.06	91.29	95.32	89.14	97.91	136.12	94.89
			4000	92.74	90.86	94.65	89.86	95.47	130.12	93.37
	mag-21	40.99%	63	86.91	83.49	89.93	80.44	92.96	151.66	104.28
		.0.5570	125	90.91	88.22	94.00	86.06	96.57	159.19	111.80
			250		86.51	91.00	84.51	93.13	153.04	105.66
			4000	93.91	92.76	96.09	92.12	96.82	146.13	98.75
		100.00%	63	85.78	82.76	88.83	80.10	91.58	142.69	91.57
	giu-21	100.00%	03	00.70						
	giu-21	100.00%	125	90.28	87.60	93.20	85.20	95.96	145.77	94.65
	giu-21	100.00%		90.28				95.96 92.36		94.65 93.13



Station	Time	Data availability	Freq	50 EL	75 EL	25 EL	90 EL	10 EL	T_SPL	AV_SPL
MS8	ALL	78.19%	63	93.76	80.13	104.00	71.77	112.37	173.71	111.55
			125	98.68	87.27	107.98	77.63	114.72	175.89	113.73
			250	97.07	87.89	105.61	78.83	111.74	172.37	110.21
			4000	97.08	94.98	99.35	93.44	101.96	164.23	102.07
	mar-20	100.00%	63	90.37	76.44	102.19	71.36	112.03	162.69	111.43
			125	96.22	85.46	106.84	80.12	114.94	164.87	113.61
			250	95.18	86.55	103.77	78.43	111.50	160.62	109.36
			4000	96.48	94.69	97.95	93.24	100.59	151.24	99.97
	apr-20	100.00%	63	86.33	73.56	98.50	70.14	108.87	161.60	110.47
			125	92.19	83.71	102.20	76.56	111.25	163.52	112.39
			250	91.93	83.15	100.53	74.03	108.29	159.34	108.21
			4000	97.20	95.15	98.92	93.67	100.30	151.40	100.28
	mag-20	100.00%	63	88.41	75.39	99.79	69.33	109.45	161.49	110.22
	11108 20	100.0070	125	92.98	81.74	103.39	72.23	111.29	163.07	111.80
			250	92.61	83.53	100.88	75.82	107.92	159.29	108.02
			4000	97.06	94.92	98.73	93.89	99.88	150.84	99.57
	giu-20	100.00%	63	95.34	82.05	104.37	71.51	112.31	163.33	112.21
	giu-20	100.0070	125	100.35	88.18	104.57	75.01	115.02	165.47	112.21
			250	98.90	88.48	105.91	78.19	113.02	162.06	114.33
	luc 20	00.0001	4000	99.06	97.06	100.81	95.72	102.36	153.67	102.55
	lug-20	99.90%	63	102.59	94.33	108.93	77.97	115.59	165.15	113.88
			125	106.02	98.31	112.13	84.48	117.74	166.39	115.12
			250	104.35	94.27	110.11	85.27	115.06	163.54	112.28
			4000	100.04	98.10	101.61	96.59	105.17	156.35	105.09
	ago-20	100.00%	63	101.55	89.77	109.33	76.04	115.96	165.13	113.86
			125	106.27	94.44	112.38	81.55	117.97	166.95	115.68
			250	105.02	94.12	110.81	82.29	115.51	164.04	112.77
			4000	99.61	98.11	101.67	96.58	106.74	157.25	105.98
	set-20	95.83%	63	96.54	82.76	105.24	72.82	113.44	162.83	111.89
			125	101.67	88.76	109.57	74.38	115.62	165.08	114.13
			250		89.63	106.76	77.97	112.15	160.83	109.89
			4000	98.25	96.76	99.62	95.35	102.33	154.14	103.20
	ott-20	0.00%	63	nan	nan	nan	nan	nan	nan	nan
			125	nan	nan	nan	nan	nan	nan	nan
			250	nan	nan	nan	nan	nan	nan	nan
			4000	nan	nan	nan	nan	nan	nan	nan
	nov-20	18.75%	63	90.93	77.21	101.71	72.29	111.65	155.02	111.19
					05.05	105.09	74.96	112.29	156.35	
			125	95.55	85.85	105.09	74.50	112.25	150.35	112.52
			125 250		85.85	103.09	79.94	109.57	156.35	112.52 108.39
	dic-20	100.00%	250	94.61	86.25	102.82	79.94	109.57	152.22	108.39
	dic-20	100.00%	250 4000	94.61 97.23	86.25 95.61	102.82 98.49	79.94 94.21	109.57 101.13	152.22 145.18	108.39 101.35
	dic-20	100.00%	250 4000 63	94.61 97.23 90.85 94.96	86.25 95.61 80.82	102.82 98.49 100.49 104.19	79.94 94.21 73.08	109.57 101.13 110.28 112.05	152.22 145.18 161.52 163.92	108.39 101.35 110.25 112.65
	dic-20	100.00%	250 4000 63 125	94.61 97.23 90.85	86.25 95.61 80.82 88.58	102.82 98.49 100.49	79.94 94.21 73.08 82.22	109.57 101.13 110.28	152.22 145.18 161.52	108.39 101.35 110.25
		100.00%	250 4000 63 125 250	94.61 97.23 90.85 94.96 94.86	86.25 95.61 80.82 88.58 88.34	102.82 98.49 100.49 104.19 101.77 97.10	79.94 94.21 73.08 82.22 81.32	109.57 101.13 110.28 112.05 108.76	152.22 145.18 161.52 163.92 160.51 151.00	108.39 101.35 110.25 112.65 109.24 99.73
	dic-20 gen-21		250 4000 63 125 250 4000 63	94.61 97.23 90.85 94.96 94.86 95.73 90.89	86.25 95.61 80.82 88.58 88.34 94.23 79.07	102.82 98.49 100.49 104.19 101.77 97.10 101.01	79.94 94.21 73.08 82.22 81.32 93.12 70.74	109.57 101.13 110.28 112.05 108.76 99.12 110.55	152.22 145.18 161.52 163.92 160.51 151.00 163.01	108.39 101.35 110.25 112.65 109.24 99.73 111.74
			250 4000 63 125 250 4000 63 125	94.61 97.23 90.85 94.96 95.73 90.89 94.21	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68	102.82 98.49 100.49 104.19 101.77 97.10 101.01 104.57	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82
			250 4000 63 125 250 4000 63 125 250	94.61 97.23 90.85 94.96 94.86 95.73 90.89 94.21 93.78	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48	102.82 98.49 100.49 104.19 101.77 97.10 101.01 104.57 101.33	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09 161.39	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12
	gen-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000	94.61 97.23 90.85 94.96 94.86 95.73 90.89 94.21 93.78 94.31	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08	102.82 98.49 100.49 104.19 101.77 97.10 101.01 104.57 101.33 95.55	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09 161.39 149.51	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24
			250 4000 63 125 250 4000 63 125 250 4000 63	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34	102.82 98.49 100.49 104.19 101.77 97.10 101.01 104.57 101.33 95.55 102.36	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09 161.39 149.51 161.51	108.39 101.35 110.25 109.24 99.73 111.74 113.82 110.12 98.24 110.68
	gen-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125	94.61 97.23 90.85 94.96 94.86 95.73 90.89 94.21 93.78 94.31 92.41 97.63	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44	152.22 145.18 161.52 160.51 151.00 163.01 165.09 161.39 149.51 161.51	108.39 101.35 110.25 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64
	gen-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41 97.63 96.03	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60	108.39 101.35 110.25 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78
	gen-21 feb-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 97.63 96.03 96.03	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22	79.94 94.21 73.08 82.22 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30	152.22 145.18 161.52 160.51 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46
	gen-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41 97.63 96.03 94.67 92.88	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.48 89.01 93.05 79.85	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85	108.39 101.35 110.25 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.79
	gen-21 feb-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 0 4000 63 125	94.61 97.23 90.85 94.96 94.86 95.73 90.89 94.21 93.78 94.31 92.41 97.63 94.67 92.88 94.67	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09 149.51 161.51 164.47 161.60 150.28 160.85 163.74	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 99.46 110.49
	gen-21 feb-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 97.63 96.03 94.67 92.88 98.39 96.21	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.32 89.01 93.05 79.85 85.45 86.87	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82 110.99	152.22 145.18 161.52 160.51 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.78 99.46 110.78
	gen-21 feb-21 mar-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41 97.63 96.03 94.67 92.88 98.39 96.21 95.35	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.32 89.01 93.05 79.85 85.45 86.87 94.03	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91	79.94 94.21 73.08 82.22 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82 110.99 100.14	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.78 99.46 110.78 99.59
	gen-21 feb-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 250 250 4000 63	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41 97.63 96.03 94.67 92.88 98.39 96.21 95.35 nan	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82 110.99 100.14 nan	152.22 145.18 161.52 163.92 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.78 99.46 110.49 113.38 109.73 99.59 nan
	gen-21 feb-21 mar-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41 97.63 94.67 92.88 98.39 96.21 95.35 nan	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82 110.99 100.14 nan nan	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan	108.39 101.35 110.25 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.49 113.38 109.73 99.59 nan
	gen-21 feb-21 mar-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	94.61 97.23 90.85 94.96 94.86 95.73 90.89 94.21 93.78 94.31 92.41 97.63 94.67 92.88 98.39 96.21 95.35 nan nan	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 85.45 86.87 94.03 nan nan	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan nan	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan nan	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82 110.99 100.14 nan nan	152.22 145.18 161.52 163.92 160.51 151.00 163.01 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan nan	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.49 113.38 109.73 99.59 nan nan
	gen-21 feb-21 mar-21 apr-21	100.00% 100.00% 81.05%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	94.61 97.23 90.85 94.96 94.86 95.73 90.89 94.21 93.78 94.31 97.63 96.03 94.67 92.88 98.39 96.21 95.35 nan nan nan	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan nan nan	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan nan nan	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan nan nan	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82 110.99 100.14 nan nan nan	152.22 145.18 161.52 160.51 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan nan nan	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.49 113.38 109.73 99.59 nan nan nan
	gen-21 feb-21 mar-21	100.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41 97.63 96.03 94.67 92.88 98.39 96.21 95.35 nan nan nan nan	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan nan nan 80.85	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan nan nan nan	79.94 94.21 73.08 82.22 81.32 93.12 70.74 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan nan nan nan	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 1112.41 114.82 110.99 100.14 nan nan nan nan 109.77	152.22 145.18 161.52 163.92 163.01 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan nan nan	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.78 99.46 113.38 109.73 99.59 nan nan nan nan nan
	gen-21 feb-21 mar-21 apr-21	100.00% 100.00% 81.05%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41 97.63 96.03 94.67 92.88 98.39 96.21 95.35 nan nan nan 91.04 98.56	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan nan nan	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan nan nan 101.08 106.58	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan nan nan nan 72.90 80.53	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 1112.41 114.82 110.99 100.14 nan nan nan 109.77 113.27	152.22 145.18 161.52 163.92 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan nan nan 157.98 161.08	108.39 101.35 110.25 112.65 112.65 112.61 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.68 113.64 110.78 99.46 110.78 99.46 113.38 109.73 99.59 nan nan nan nan 109.24 112.35
	gen-21 feb-21 mar-21 apr-21	100.00% 100.00% 81.05%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41 97.63 96.03 94.67 92.88 98.39 96.21 95.35 nan nan nan nan	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan nan nan 80.85	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan nan nan nan	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan nan nan nan nan 72.90 80.53 80.51	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 1112.41 114.82 110.99 100.14 nan nan nan nan 109.77	152.22 145.18 161.52 163.92 163.01 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan nan nan	108.39 101.35 110.25 112.65 112.65 112.61 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.68 113.64 110.78 99.46 110.78 99.46 113.38 109.73 99.59 nan nan nan nan 109.24 112.35
	gen-21 feb-21 mar-21 apr-21	100.00% 100.00% 81.05%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 92.41 97.63 96.03 94.67 92.88 98.39 96.21 95.35 nan nan nan 91.04 98.56	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan nan nan nan 80.85 88.64	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan nan nan 101.08 106.58	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan nan nan nan 72.90 80.53	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 1112.41 114.82 110.99 100.14 nan nan nan 109.77 113.27	152.22 145.18 161.52 163.92 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan nan nan 157.98 161.08	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.49 113.38 109.73 99.59 nan nan nan 109.24 112.35 108.32
	gen-21 feb-21 mar-21 apr-21	100.00% 100.00% 81.05%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	94.61 97.23 90.85 94.96 94.86 95.73 90.89 94.21 93.78 94.31 92.41 97.63 94.67 92.88 98.39 96.21 95.35 nan nan nan nan 91.04 98.56 97.53	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan nan nan nan nan 80.85 88.64 88.28	102.82 98.49 100.49 104.19 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan nan nan nan 101.08 106.58 104.81	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan nan nan nan nan 72.90 80.53 80.51	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82 110.99 100.14 nan nan nan nan 109.77 113.27 110.32	152.22 145.18 161.52 163.92 160.51 151.00 163.01 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan nan nan nan 157.98 161.08	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.49 113.38 109.73 99.59 nan nan nan nan 109.24 112.35 108.32 101.12
	gen-21 feb-21 mar-21 apr-21 mag-21	100.00% 100.00% 81.05% 0.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	94.61 97.23 90.85 94.96 94.86 95.73 90.89 94.21 97.63 94.67 92.41 97.63 96.03 94.67 92.88 98.39 96.21 95.35 nan nan nan 91.04 95.53 96.79 97.53 96.79	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan nan nan nan 80.85 88.64 88.64 88.28	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan nan nan nan 101.08 106.58 104.81 98.69	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan nan nan nan nan 72.90 80.53 80.51 93.42	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82 110.99 100.14 nan nan nan nan 109.77 113.27 110.32 101.36	152.22 145.18 161.52 163.92 160.51 151.00 163.01 165.09 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan nan nan 157.98 161.08 157.05 149.85 160.80	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.49 113.38 109.73 99.59 nan nan nan nan 109.24 112.35 108.32 101.12 109.67
	gen-21 feb-21 mar-21 apr-21 mag-21	100.00% 100.00% 81.05% 0.00%	250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 63 63 63 63 63 63 63 63 63 63 63 63	94.61 97.23 90.85 94.96 95.73 90.89 94.21 93.78 94.31 97.63 96.03 94.67 92.88 98.39 96.21 95.35 nan nan nan nan 95.35 nan nan 95.35 nan nan 95.35 nan nan 95.35 nan nan 95.35 nan nan 95.35 nan nan 95.35 nan 101.95	86.25 95.61 80.82 88.58 88.34 94.23 79.07 85.68 86.48 93.08 80.34 86.82 89.01 93.05 79.85 85.45 86.87 94.03 nan nan nan nan 80.85 88.64 88.28 94.90 84.51	102.82 98.49 100.49 101.77 97.10 101.01 104.57 101.33 95.55 102.36 106.73 103.88 96.22 103.75 107.62 104.28 96.91 nan nan nan nan 101.08 106.58 104.81 98.69	79.94 94.21 73.08 82.22 81.32 93.12 70.74 74.98 78.76 91.87 71.48 75.90 79.23 91.67 71.77 73.80 78.30 92.51 nan nan nan nan 72.90 80.53 80.51 93.42 70.67	109.57 101.13 110.28 112.05 108.76 99.12 110.55 112.13 108.39 97.60 111.75 114.44 110.71 99.30 112.41 114.82 110.99 100.14 nan nan nan nan 109.77 113.27 110.32 101.36 111.05	152.22 145.18 161.52 160.51 151.00 163.01 165.09 161.39 149.51 161.51 164.47 161.60 150.28 160.85 163.74 160.09 149.95 nan nan 157.98 161.08 157.05 149.85 160.80 164.59	108.39 101.35 110.25 112.65 109.24 99.73 111.74 113.82 110.12 98.24 110.68 113.64 110.78 99.46 110.49 113.38 109.73 99.59 nan nan



Station MS9	Time	Data availability	Freq	50 EL	75 EL	25 EL	90 EL	10 EL	T_SPL	AV_SPL
14133	ALL	68.28%	63	95.17	89.83	100.04	84.46	104.38	173.98	112.41
			125	95.02	90.97	98.83	87.21	102.49	172.09	110.52
			250	93.92	90.02	97.70	86.47	101.24	174.27	112.69
			4000	86.20	83.75	88.68	81.46	91.05	160.12	98.55
	mar-20	69.76%	63	97.68	92.00	103.02	86.78	107.30	153.32	103.62
			125	96.83	92.88	100.58	89.98	104.13	150.86	101.16
			250	95.60	92.67	99.30	90.35	103.30	150.91	101.21
			4000	87.23	83.96	90.61	82.00	92.80	140.03	90.33
	apr-20	100.00%	63	95.78	89.35	101.28	82.49	105.99	153.35	102.23
			125	95.07	90.97	99.23	87.96	102.88	151.11	99.99
			250	94.15	90.30	97.98	87.11	101.44	149.24	98.12
			4000	84.11	81.86	86.55	80.57	89.34	138.46	87.34
	mag-20	100.00%	63	94.77	88.62	100.54	83.42	105.22	153.47	102.20
			125	93.51	89.50	97.50	85.95	100.76	149.37	98.10
			250	91.30	87.80	95.15	84.62	98.85	148.51	97.25
			4000	83.22	81.22	85.37	80.30	87.30	136.99	85.72
	giu-20	100.00%	63	92.29	86.44	98.21	80.77	103.32	150.71	99.59
		++	125	90.81	86.63	94.71	82.69	97.87	146.01	94.89
		+	250	89.65	85.61	93.31	82.14	96.80	144.87	93.75
	h.u. 20	60.000	4000	82.86	81.10	85.33	80.28	87.37	136.83	85.71
	lug-20	68.90%	63	91.82	85.35	97.62	79.23	102.21	148.12	98.47
			125 250	89.08	84.76	93.63	80.78	97.87	144.26	94.61 93.50
			4000	88.53 82.66	84.48 81.16	92.73 85.33	81.12 80.39	96.54 87.32	143.15 135.98	93.50
	ago-20	0.00%		nan	nan	nan	nan	nan	nan	nan
	450-20	0.00%	125	nan	nan	nan	nan	nan	nan	nan
		+ +	250	nan	nan	nan	nan	nan	nan	nan
			4000	nan	nan	nan	nan	nan	nan	nan
	set-20	0.00%	63	nan	nan	nan	nan	nan	nan	nan
			125	nan	nan	nan	nan	nan	nan	nan
			250	nan	nan	nan	nan	nan	nan	nan
			4000	nan	nan	nan	nan	nan	nan	nan
	ott-20	0.00%	63	nan	nan	nan	nan	nan	nan	nan
			125	nan	nan	nan	nan	nan	nan	nan
			250	nan	nan	nan	nan	nan	nan	nan
			4000	nan	nan	nan	nan	nan	nan	nan
	nov-20	0.00%	63	nan	nan	nan	nan	nan	nan	nan
			125	nan	nan	nan	nan	nan	nan	nan
				nan	nan	nan	nan	nan	nan	nan
			4000	nan	nan	nan	nan	nan	nan	nan
	dic-20	56.45%	63	94.10	90.13	98.32	86.17	101.58	148.14	99.37
-				05.06	02.20	00.07				00.00
			125	95.26	92.39	98.07	89.90	100.97	147.47	
			125 250	94.49	92.13	96.91	90.10	99.57	146.82	98.05
	gor 31	100.00%	125 250 4000	94.49 87.48	92.13 86.05	96.91 89.40	90.10 84.79	99.57 91.91	146.82 140.22	98.05 91.45
	gen-21	100.00%	125 250 4000 63	94.49 87.48 94.83	92.13 86.05 90.05	96.91 89.40 98.96	90.10 84.79 85.26	99.57 91.91 102.67	146.82 140.22 150.00	98.05 91.45 98.74
	gen-21	100.00%	125 250 4000 63 125	94.49 87.48 94.83 96.93	92.13 86.05 90.05 93.08	96.91 89.40 98.96 100.09	90.10 84.79 85.26 89.73	99.57 91.91 102.67 102.99	146.82 140.22 150.00 150.94	98.05 91.45 98.74 99.67
	gen-21	100.00%	125 250 4000 63 125 250	94.49 87.48 94.83 96.93 96.37	92.13 86.05 90.05 93.08 92.94	96.91 89.40 98.96 100.09 99.39	90.10 84.79 85.26 89.73 90.06	99.57 91.91 102.67 102.99 102.17	146.82 140.22 150.00 150.94 150.19	98.05 91.45 98.74 99.67 98.92
			125 250 4000 63 125 250 4000	94.49 87.48 94.83 96.93 96.37 87.78	92.13 86.05 90.05 93.08 92.94 86.04	96.91 89.40 98.96 100.09 99.39 89.55	90.10 84.79 85.26 89.73 90.06 84.60	99.57 91.91 102.67 102.99 102.17 91.55	146.82 140.22 150.00 150.94 150.19 140.88	98.05 91.45 98.74 99.67 98.92 89.61
	gen-21	100.00%	125 250 4000 63 125 250 4000 63	94.49 87.48 94.83 96.93 96.37 87.78 96.14	92.13 86.05 90.05 93.08 92.94 86.04 91.59	96.91 89.40 98.96 100.09 99.39 89.55 100.17	90.10 84.79 85.26 89.73 90.06 84.60 86.99	99.57 91.91 102.67 102.99 102.17 91.55 103.89	146.82 140.22 150.00 150.94 150.19 140.88 151.18	91.45 98.74 99.67 98.92 89.61 100.35
			125 250 4000 63 125 250 4000 63 125	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37	98.05 91.45 98.74 99.67 98.92 89.61 100.35 100.55
			125 250 4000 63 125 250 4000 63 125 250	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14	92.13 86.05 90.05 93.08 92.94 86.04 91.59	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88	98.05 91.45 98.74 99.67 98.92 89.61 100.35 100.55 99.05
	feb-21		125 250 4000 63 125 250 4000 63 125	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26	98.05 91.45 98.74 99.67 98.92 89.61 100.35 100.55 99.05 99.04
		100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 87.74	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16 92.05	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26 152.11	98.05 91.45 98.74 99.67 98.92 89.61 100.35 100.55 99.05 99.043 100.84
	feb-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16 92.05 104.41	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26	98.05 91.45 98.74 99.67 98.92 89.61 100.35 99.05 90.43 100.84 101.48
	feb-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125	94.49 87.48 94.83 96.93 87.78 96.14 97.22 96.14 87.74 87.74 96.95 97.87	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26 152.11 152.75	98.05 91.45 98.74 99.67 98.92 89.61 100.35 100.55 99.05 99.05 90.43 100.84 101.48
	feb-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 63 125 250	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75 94.08	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41	98.05 91.45 98.74 98.92 89.61 100.35 100.55 99.05 99.043 100.84 101.48 101.14
	feb-21 mar-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34 87.60	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75 94.08 85.62	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70	146.82 140.22 150.00 150.99 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41 143.95	98.05 91.45 99.77 98.72 89.61 100.35 100.55 99.05 90.43 100.84 101.48 101.48 99.68
	feb-21 mar-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 250 4000 63	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34 87.60 95.86	92.13 86.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75 94.08 85.62 90.95	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71 100.06	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70 85.98	99.57 91.91 102.67 91.02.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70 103.66	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41 143.95 151.08	98.05 91.45 99.74 99.67 98.92 89.61 100.35 99.05 90.43 100.84 101.48 101.14 92.68 99.96 98.76
	feb-21 mar-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 87.74 87.60 95.86 95.86	92.13 86.05 93.08 92.94 86.04 91.59 92.95 85.75 92.76 94.75 94.08 85.62 90.95 92.19	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71 100.06 98.82	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70 85.98 89.07	99.57 91.91 102.67 91.02.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70 103.66 101.94	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41 143.95 151.08 149.89	98.05 91.45 98.74 99.67 98.92 89.61 100.35 90.43 100.84 101.48 101.14 99.96 98.76 98.32
	feb-21 mar-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34 87.60 95.86 95.62 94.86	92.13 86.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75 94.08 85.62 90.95 92.19	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71 100.06 98.82 98.06	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70 85.98 89.07 88.62	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70 103.66 101.94 101.15	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41 143.95 151.08 149.89 149.45	98.05 91.45 98.74 99.67 98.92 89.61 100.35 90.05 90.05 90.05 90.05 90.04 100.84 101.48 101.14 92.68 99.96 98.76 98.72 98.72
	feb-21 mar-21 apr-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34 87.60 95.86 95.62 94.86 87.14	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75 94.08 85.62 90.95 92.19 91.43 85.30	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71 100.06 98.82 98.82	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70 85.98 83.70 85.98 89.07 88.62 83.62	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70 103.66 101.94 101.15 90.99	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41 143.95 151.08 149.89 149.45	98.05 91.45 98.74 99.67 98.92 89.61 100.35 100.55 99.05 99.05 99.04 101.48 101.48 101.44 92.68 99.96 98.76 98.32 89.41
	feb-21 mar-21 apr-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34 87.60 95.86 95.62 94.86 87.14 94.83 94.68	92.13 86.05 93.08 92.94 86.04 91.59 92.95 85.75 92.76 94.08 85.62 90.95 92.19 91.43 85.30 89.93 91.13	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71 100.06 98.82 98.06 88.92 99.38 99.38	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70 85.98 89.07 88.62 83.62 85.51 88.02 87.12	99.57 91.91 102.67 91.02.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70 103.66 101.94 101.15 90.99 103.25 101.22 99.31	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41 143.95 151.08 149.89 149.45 140.54 140.51 148.39	98.05 91.45 99.74 99.67 98.92 89.61 100.35 99.05 90.43 100.84 101.48 101.14 99.96 98.76 98.32 89.41 100.26 98.32 89.41 100.26
	feb-21 mar-21 apr-21 mag-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34 87.60 95.86 95.62 94.86 87.14 94.83 94.68 93.22 86.93	92.13 86.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75 94.08 85.62 90.95 92.19 91.43 85.30 89.93 91.13 89.80 84.98	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71 100.06 98.82 98.06 88.92 99.38 98.15 96.32 88.93	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70 85.98 89.07 88.62 83.62 83.62 83.62 88.02 87.12 83.79	99.57 91.91 102.67 91.02.99 102.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70 103.66 101.94 101.15 90.99 103.25 101.22 99.31 90.68	146.82 140.22 150.00 150.94 150.19 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41 143.95 149.89 149.45 140.54 151.53 149.51 148.39 140.52	98.05 91.45 98.74 99.67 98.92 89.61 100.35 100.55 99.05 90.43 100.84 101.48 101.14 99.96 98.76 98.32 89.41 100.26 98.23 89.41 100.26 98.24
	feb-21 mar-21 apr-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34 87.60 95.86 95.62 94.86 87.14 94.83 94.68 93.22 86.93 95.07	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75 94.08 85.62 90.95 92.19 91.43 85.30 89.93 91.13 89.80 84.98	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71 100.06 98.82 98.06 98.82 98.06 88.92 99.38 99.38 98.15 96.32 88.93 100.79	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70 85.98 83.70 88.62 83.62 83.62 83.62 83.62 83.62 83.62 83.79 85.01	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70 103.66 101.94 101.15 90.99 103.25 101.22 99.31 90.68 109.38	146.82 140.22 150.00 150.94 150.9 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41 143.95 151.08 149.89 149.45 140.54 151.53 149.51 148.39 140.52 173.70	98.05 91.45 98.74 99.67 98.92 89.61 100.35 90.43 100.84 101.48 101.14 99.96 98.76 98.32 89.41 100.26 98.23 97.12 89.24 122.57
	feb-21 mar-21 apr-21 mag-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34 87.60 95.86 95.62 94.86 87.14 94.83 94.68 93.22 86.93 95.07 93.90	92.13 86.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75 94.75 92.76 94.75 94.78 85.62 90.95 92.19 91.43 85.30 89.93 91.13 89.80 84.98 88.96 90.73	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71 100.06 98.82 98.06 88.92 99.38 98.15 96.32 88.93 100.79 97.87	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70 85.98 83.70 85.98 83.62 83.62 83.62 85.51 88.02 87.12 83.79	99.57 91.91 102.67 91.02.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70 103.66 101.94 101.15 90.99 103.25 101.22 99.31 90.68 109.38 108.25	146.82 140.22 150.00 150.94 150.19 140.88 151.37 149.88 141.26 152.11 152.75 152.41 143.95 151.08 149.49 149.45 149.45 149.51 148.39 149.51 148.39 149.51	98.05 91.45 98.74 99.67 98.92 89.61 100.35 99.05 99.05 90.43 100.84 101.44 92.68 99.96 98.32 89.41 100.26 98.33 97.12 89.24 120.57 120.66
	feb-21 mar-21 apr-21 mag-21	100.00%	125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63 125 250 4000 63	94.49 87.48 94.83 96.93 96.37 87.78 96.14 97.22 96.14 87.74 96.95 97.87 97.34 87.60 95.86 95.62 94.86 87.14 94.83 94.68 93.22 86.93 95.07	92.13 86.05 90.05 93.08 92.94 86.04 91.59 93.89 92.95 85.75 92.76 94.75 94.08 85.62 90.95 92.19 91.43 85.30 89.93 91.13 89.80 84.98	96.91 89.40 98.96 100.09 99.39 89.55 100.17 100.69 99.29 89.87 101.03 101.25 100.32 89.71 100.06 98.82 98.06 88.92 99.38 98.15 96.32 88.93 100.79	90.10 84.79 85.26 89.73 90.06 84.60 86.99 90.75 90.10 83.83 88.56 91.94 90.98 83.70 85.98 83.70 88.62 83.62 83.62 83.62 83.62 83.62 83.62 83.79 85.01	99.57 91.91 102.67 102.99 102.17 91.55 103.89 104.04 102.16 92.05 104.41 104.56 103.12 92.70 103.66 101.94 101.15 90.99 103.25 101.22 99.31 90.68 109.38	146.82 140.22 150.00 150.94 150.9 140.88 151.18 151.37 149.88 141.26 152.11 152.75 152.41 143.95 151.08 149.89 149.45 140.54 151.53 149.51 148.39 140.52 173.70	98.05 91.45 98.74 99.67 98.92 89.61 100.35 90.43 100.84 101.48 101.14 99.96 98.76 98.32 89.41 100.26 98.23 97.12 89.24 122.57



#### A2.Jupyter Notebook

The Jupyter Notebook is a stand-alone, open-source interactive web tool, which researchers can use to combine software code, computational output, explanatory text and multimedia resources in a single document. In a Jupyter notebook, users input programming code or text in rectangular cells in a frontend web page; the browser then passes that code to a back-end 'kernel', which runs the code and returns the results. The notebook speaks many programming languages, as Python and R. However, it can be runonly in its own environment, so that the Jupyter software should be installed on the user's computer. Itcan be used in many operating systems.

Installing procedure for the Jupyter software is described in:

https://jupyter.org/install.

https://docs.anaconda.com/ae-notebooks/4.3.1/user-guide/basic-tasks/apps/jupyter/

For the purpose described in the present Deliverable, the code in the notebook was written in Python, so also Python must be installed. For detailed information about download and installation, we refer to the website:

https://wiki.python.org/moin/BeginnersGuide/Download https://www.python.org/doc/

To use the notebook, these modules may be required, depending on own Python installation:

matplotlib: https://matplotlib.org/stable/users/installing.html

numpy: <a href="https://numpy.org/install/">https://numpy.org/install/</a>

pandas: <u>https://pandas.pydata.org/getting\_started.html</u>

seaborn: https://seaborn.pydata.org/installing.html

scipy: https://www.scipy.org/install.html

openpyxl: <a href="https://openpyxl.readthedocs.io/en/stable/">https://openpyxl.readthedocs.io/en/stable/</a>

The notebook consists in many code cells, which can also be run separately, depending on the analyses the user wants to perform. No skills in programming are required, being all the operations text driven. Other code cells can be added to implement new analyses.

In Figure 31 an example of the Jupyter Notebook is shown: descriptive text and python code cells can be seen.



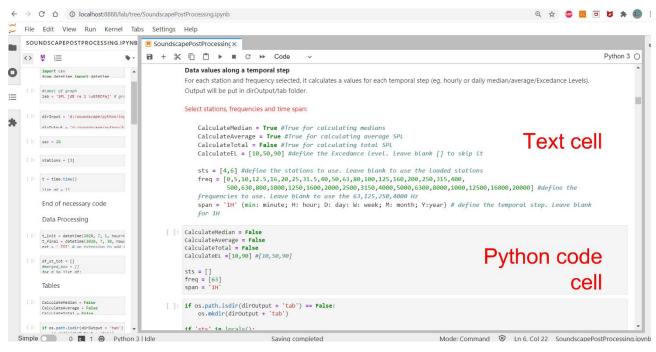


Figure 31. Jupyter Notebook example.