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- - Pilot Plant flowsheet optimised following further operational testwork success of HPA Micro Plant.
 - Pilot Plant to allow for intermediate HPA products for qualification with battery separator manufacturers.
 - CMX's 100%-owned HiPurA® HPA International Patent progressing on track
 - Pilot Plant equipment first deliveries to ChemX expected this month.

High Purity Manganese (HPM)

Maiden Mineral Resource Estimate for Jamieson Tank Manganese Project on the Eyre Peninsula, South Australia to be finalised in consultation with CSA Global this month.

ChemX Materials (ASX:CMX) (ChemX or the Company), an Australian based high purity critical materials business, is pleased to announce significant progress in both HPA and HPM business streams.

ChemX Materials has been advancing the development of its 100%-owned HiPurA® HPA Pilot Plant, to be located at its dedicated facility in O'Connor Perth, Western Australia to deliver the required volumes of HPA for product qualification with Battery Separator manufacturers and consumers of high purity aluminous products and synthetic sapphire producers. As a result of marketing activities and industry discussions, ChemX has identified markets for intermediate high purity aluminous products, which offer potential volume increases in addition to the markets for 4N and 5N HPA.

Chief Executive Officer Peter Lee commented:

"The Micro Plant has proven extremely effective in delivering the process data required to improve the design and optimise the operation of the Pilot Plant ahead of time. This has resulted in a significant reduction in capital costs and reagent requirements.

Importantly, the resized pilot plant will still meet expected customer demand in producing sufficient product to complete qualification with battery separator makers, synthetic sapphire growers and other burgeoning markets".

ASX:CMX www.chemxmaterials.com.au Following recent strategic investment in high precision analytical equipment and dedicated human resources for high purity analysis, the HPA Micro Plant has experienced increased operational performance, with these enhancements being fed directly into the HPA Pilot Plant flowsheet design.

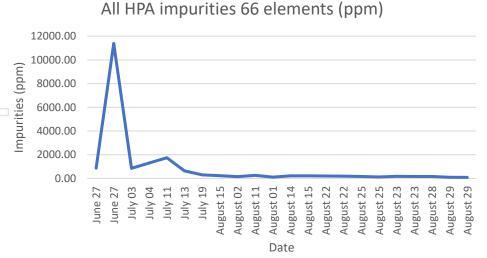
The step-change in performance of the HPA Micro Plant has been a key highlight and success of the scaled development approach, which has provided added confidence and reduced the risk associated with scaling up high purity metallurgical processes, which is common under continuous operation for novel technologies.

<u>HPA Update</u>

As part of its process of continuous optimisation of the HPA Micro Plant, ChemX made adjustments throughout the time periods shown in Figures 1 and 2 below which delivered an increased stability of the system and resulted in reductions in total impurities in samples tested as shown in Figures 1 and 2 below.

In initial runs, the process experienced an anomalous spike in phosphorus impurities in June which was not present in later assays. The data obtained from the results below is currently being fed by ChemX into the design of its HPA Pilot Plant. ChemX's process selectively removes impurities from feedstock solution to target total impurities across elements of less than 100pm or 4N HPA.

Further information including full assay data is available in Appendix A and JORC Table 1 (Appended).



HPA Micro Plant Performance Following Process Enhancements

Figure 1. HPA Impurities Chart



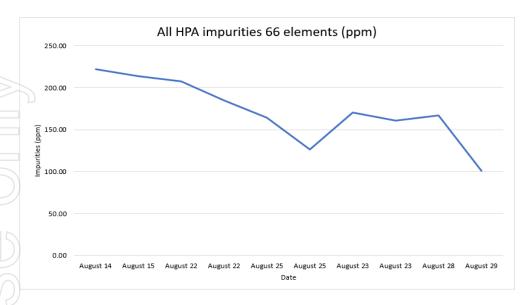


Figure 2. HPA Impurities Chart without June and July readings.

Notes:

- 1) Analysis conducted by LabWest Minerals Analysis Pty Ltd. (NATA accredited Laboratory)
- 2) Analysis Method Microwave Digest, HF/Multiacid, 66 Elements including REE's by ICP-MS/OES.
- 3) Complete analysis provided in Appendix A with supporting JORC table 1.

CMX's 100%-owned HiPurA® process is a disruptive flowsheet which converts aluminous chemical feedstocks through selective refining to high purity alumina. Ultimately, CMX aims to achieve the delivery of 4N high grade and potentially 5N HPA products for the electric vehicle battery separator and synthetic sapphire markets, LEDs, semi-conductor and optical lenses.



In July 2022, the Company lodged an international patent application, with a recent preliminary international report indicating ChemX's claims complied with requirements for novelty, inventive step and industrial applicability. The patent approval process is ongoing. The progression of the HiPurA[®] patent is a significant step for the Company in the protection of its intellectual property and competitive advantage against incumbent operators who rely on nonnovel, licenced, energy and reagent intensive technologies to produce

high purity alumina. Figure 3. HPA Micro Plant Production

As the HiPurA® HPA process is modular, scalable and independent of direct mine production, this will enable ChemX to locate key production facilities close to customers. Ongoing customer engagement has led to the identification of new intermediate products. The inclusion of these requisite flowsheet process enhancements and alternative product pathways will now add several weeks to the construction timeframe and result in a robust pilot plant design, negating the requirement to build additional plant(s) to produce alternative intermediate products for customer qualification.

With the success of the Micro Plant under continuous operation, it will be modified to take feedstock from the Pilot Plant to produce premium products such as 5N (99.999%) HPA, used for synthetic sapphire production.

HPM Update

The Company has been working with ERM Australia Consultants Pty Ltd, (trading as CSA Global) toward a maiden Mineral Resource estimate (MRe). This work is in its final stages and the Company expects to release the results this month.

ChemX's manganese deposit is strategically located on the Eyre Peninsula, South Australia, approximately 150km west of Whyalla, an important regional industrial and steel manufacturing town capable of supporting a skilled local workforce with excellent multi-commodity processing, having significant road, rail, port logistics infrastructure already in place.

The Company has been in discussions with relevant parties for local sourcing of chemical reagents required to produce battery grade Manganese Sulphate for the electric vehicle battery cathode market. The project's manganese mineralisation is near surface and has demonstrated the ore can be upgraded via beneficiation (ASX 11 May 2022), which can then be processed into High Purity Manganese Sulphate Monohydrate (HPMSM).

In early 2022, the Company secured a Non-Binding MoU with US based C4V, a leader in battery technology and is involved in some of the world's largest gigafactory developments to progress ChemX's High Purity Manganese Project and work towards HPM offtake following the qualification process.

ChemX is investigating using the Eyre Peninsula Manganese deposit as a feedstock for a high purity manganese sulphate production facility to be located in Whyalla, South Australia, which boasts an abundance of renewable energy in the region within a tier-one sovereign jurisdiction, offering potential customers superior ESG credentials.

The Company continues to advance its marketing efforts to enter early qualification with electric vehicle battery manufacturers and cathode chemical companies. The Company's pending initial manganese resource estimate, internal development and metallurgical studies to follow will be key milestones to advance discussions with entities seeking to secure Australian sourced manganese sulphate supply.

ENDS



This Announcement has been authorised for release by the Board.

For enquiries:

Peter Lee

Chief Executive Officer Secretary ChemX Materials Ltd peter@chemxmaterials.com.au

+61 (0) 448 874 084

Stephen Strubel

Executive Director

and Company

ChemX Materials Ltd <u>stephen@chemxmaterials.com.au</u> +61 (0) 404 400 785

Directors

Warrick Hazeldine	Non-Executive Chair
Alwyn Vorster	Non-Executive Director
Tara Berrie	Non-Executive Director (US Based)
Stephen Strubel	Executive Director & Company Secretary
Management	
Peter Lee	Chief Executive Officer

Reporting confirmation

11 May 2022 ChemX Battery Materials Strategy Moves Forward

The Company confirms that it is not aware of any new information or data that materially affects the information included in the market announcement.

COMPETENT PERSON STATEMENT – Metallurgy

Mr Steven Hoban is a Principal Metallurgist with a Bachelor of Mineral Science degree and Member of the AusIMM institute with more than 25 years of experience. Steven's expertise lies across many fields in the minerals industry with a key role in the development, design and interpretation of laboratory testwork with significant recent experience in high purity applications such as silica, lithium and alumina. Mr Hoban has sufficient experience relevant to the type of processing and analysis under consideration and the activity undertaken to qualify as a Competent Person as defined by the AusIMM.

Mr Hoban deems these results as true and correct at the time of reporting and representative of the product produced from the HiPurA® process pilot plant by ChemX Materials.

Mr Hoban consents to the inclusion in this announcement of the matters based upon the information in the form and context in which it appears.

About ChemX Materials (ASX: CMX)

ChemX is an advanced materials company focused on providing high purity critical materials for the battery industry. The Company's vision is to become a leading supplier of sustainable and ethically sourced critical materials to support the global energy transition.

ChemX is applying its high purity expertise to advance its Manganese project located on the Eyre Peninsula in South Australia. Metallurgical test work has indicated the manganese ore is amendable to upgrade through beneficiation and being processed into a high purity manganese sulphate to supply the Lithium-ion battery industry.

Developed in-house, ChemX's HiPurA® Process is capable of producing high purity alumina (HPA) and high purity aluminium cathode precursor salts for lithium-ion batteries. Initial test work has indicated that the process is low cost and low in energy consumption, compared to alternative methods. A key competitive advantage is that the HiPurA® process modular, scalable and is not tied to direct mine production, instead utilising chemical feedstock.

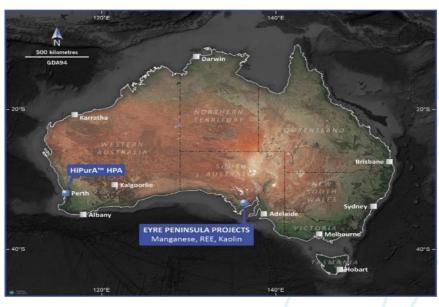


Figure 2 – ChemX Project Locations

JORC Code (2012 Edition) Table 1 – High Purity Alumina

Section 1: Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	JORC Code explanation	Commentary
Sampling techniques	Nature and quality of sampling (e.g., cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g., "RC drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay"). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g., submarine nodules) may warrant disclosure of detailed information.	Final HPA product (post calcination material) is obtained from several areas within the crucible volume to provide a representative composite sample mass of approximately 50 grams. Robust testwork with external laboratories (predominantly Intertek Perth and LabWest Perth) has resulted in sufficient confidence within the reported results. Predominant analytical methods included ICP-MS and Microwave Digest Methods (both NATA Accredited) to analyse 66 elements with sub parts per million (ppm) precision achieved. The Competent Person (CP) considers that the sample techniques adopted by ChemX are appropriate for the intended purpose and aforementioned analytical methods.
Drilling techniques	Drill type (e.g., core, RC, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g., core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).	Not Applicable. Samples were obtained from ChemX's Micro Plant employing a novel process, using an industrial sourced feedstock.

Criteria	JORC Code explanation	Commentary							
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	Not Applicable Not Reporting exploration Results.							
	Measures taken to maximise sample recovery and ensure representative nature of the samples.								
	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.								
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or	Not Applicable. Not Reporting exploration Results.							
	quantitative in nature. Core (or costean, channel, etc.) photography.								
	The total length and percentage of the relevant intersections logged.								
Subsampling techniques and sample	If core, whether cut or sawn and whether quarter, half or all core taken.	Samples presented as a homogenised high purity crystalline alumina, obtained from precipitation, followed by filtration, drying and							
preparation	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.	final calcination processes. The nature of the precipitation and filtration stages results in this homogenised product,							
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	which is split into four crucibles for removal crystalline water via calcination.							
	Quality control procedures adopted for all subsampling stages to maximise representivity of samples.	This material is then parcelled to 100 to 500g allotments for batch storage within ChemX's production sample archive.							
	Measures taken to ensure that the sampling is representative of the in- situ material collected, including for instance results for field duplicate/second-half sampling.	With the high level of precision within the analytical methods applied, there is no evidence the sample sizes are inadequate or inappropriate for subsampling using the techniques adopted.							
	Whether sample sizes are appropriate to the grain size of the material being sampled.	The CP does not consider there is any bias in the ChemX sampling process.							
Quality of assay data and laboratory tests	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	LabWest completed internal quality assurance/quality control (QAQC) assay procedures comprising appropriate reference samples and standards. No material issues were identified in the laboratory QAQC.							
	For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their	LabWest is NATA accredited in accordance with ISO/IEC 17025, and obtained this certification 16/9/2011 (#17061). The CP considers that a reasonable level of confidence can be placed in the accuracy and precision of the assay data used in the							

Criteria	JORC Code explanation	Commentary
	Nature of quality control procedures adopted (e.g., standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data.	ChemX uses third party 5N reference material to provide benchmark on selected assay submissions. The CP considers the verification of sampling and assaying appropriate for the high purity nature of HPA.
Location of data points	Accuracy and quality of surveys used to locate drillholes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control.	Not applicable. Not Reporting exploration Results.
Data spacing and distribution	Data spacing for reporting of Exploration Results. Whether the data spacing, and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied.	Not applicable. Not Reporting exploration Results.
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	Not applicable. Not Reporting exploration Results.
Sample security	The measures taken to ensure sample security.	Samples as captured from the calcination crucibles are kept within 100 to 500g allotments to provide batch verification capability as may be deemed warranted.



Crit	teria	JORC Code explanation	Commentary
			Submitted samples (nominally 50g) are held securely (and registered within Laboratory Information Management System (LIMS) upon arrival) by the responsible external laboratory to ensure ability to verify analysis as deemed necessary.
			Sample bottles are sampled and sealed immediately to prevent inadvertent contamination with incorrect sampling or foreign matter. The CP considers the sample security does not pose any risk for the reporting of these results.
_	dits or riews	The results of any audits or reviews of sampling techniques and data.	ChemX has conducted several visits to LabWest's facilities with no concerns being identified.

Section 2: Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section)

Criteria	JORC Code explanation	Commentary								
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	Not applicable. Not Reporting exploration Results.								
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.									
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Not applicable. Not Reporting exploration Results.								
Geology	Deposit type, geological setting and style of mineralisation.	Not applicable. Not Reporting exploration Results.								
Drillhole information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drillholes: Easting and northing of the drillhole collar Elevation or RL (Reduced Level – Elevation above sea level in metres) of the drillhole collar Dip and azimuth of the hole Downhole length and interception depth Hole length. 	Not applicable. Not Reporting exploration Results.								

Criteria	JORC Code explanation	Commentary
	If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g., cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts	Not applicable. Not Reporting exploration Results.
	incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.	
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	
Relationship between mineralisation widths and	These relationships are particularly important in the reporting of Exploration Results.	Not applicable. Not Reporting exploration Results.
intercept lengths	If the geometry of the mineralisation with respect to the drillhole angle is known, its nature should be reported.	
	If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g., "downhole length, true width not known").	
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drillhole collar locations and appropriate sectional views.	Not applicable. Not Reporting exploration Results.
Balanced reporting	Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading	Not applicable. Not Reporting exploration Results.

reporting of Exploration Results.

Criteria	JORC Code explanation	Commentary
Other substantive exploration dataOther exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating		Not applicable. Not Reporting exploration Results.
Further work	The nature and scale of planned further work (e.g., tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	The Company is continuing optimisation activities within its Micro Plant with the objective to achieve higher purity HPA targets. The optimised Micro Plant learnings will be applied to the larger Pilot Plant, which is to be constructed within Q4 CY2023.

	APPENDIX A																																
Sample	66 Element Total (ppm)	Ag	As	Au	В	Ва	Ве	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd Ge	Hf	Hg	Но	1	In	к	La	Li	Lu	Mg	Mn	Мо
M1S_022_5401_JUNE27	858.93	0.0505	0.0100	0.0005	28.5200	0.0296	0.0035	0.0087	10.2600	0.0025	0.0073	0.0028	0.0640	0.0014	0.5440	0.0011	0.0005	0.0005	12.8200 1	.6.3200 0.	0.003 0.003	0.0008	0.0039	0.0006	0.0590	0.0000	4.4080	0.0104	0.0390	0.0000	0.6210	0.3040	0.0045
M1S_023_5401_JUNE28	11386.03	0.0562	0.0390	0.0005	17.3800	0.0262	0.0042	0.0030	8.5630	0.0021	0.0056	0.0002	0.1360	0.0003	0.3180	0.0014	0.0018	0.0006	54.0500	3.7000 0.	0.003 0.003	0.0035	0.0008	0.0005	0.0520	0.0005	10.8300	0.0070	0.3020	0.0001	0.8580	0.4540	0.0470
M1S0245401JULY3	858.64	0.0611	0.0140	0.0005	36.3500	0.0420	0.0021	0.0088	5.7460	0.0038	0.0053	0.0073	0.1670	0.0000	0.5860	0.0002	0.0003	0.0002	10.0600 1	1.0600 0.	0.003	0.0001	0.0002	0.0001	0.0140	0.0001	0.7653	0.0073	0.0710	0.0000	2.0240	6.3420	0.0150
M1S0255401JULY4	1304.11	0.0211	0.0100	0.0005	31.6800	0.0311	0.0028	0.0039	13.3500	0.0023	0.0087	0.0126	0.0680	0.0001	0.5600	0.0003	0.0002	0.0004	13.5000 1	4.6600 0.	0.005 0.001	0.0007	0.0011	0.0002	0.0100	0.0001	1.9670	0.0068	0.0970	0.0001	4.4950	1.0840	0.0185
M1S026A5401JULY11	1741.89	0.0213	0.0100	0.0005	37.7500	0.0264	0.0021	0.0038	46.6400	0.0032	0.0090	0.0070	0.1020	0.0002	0.4430	0.0010	0.0006	0.0002	25.8400 2	8.1500 0.	0.009 0.001	0.0005	0.0002	0.0002	0.0110	0.0000	2.5730	0.0060	0.0420	0.0001	27.5000	0.9880	0.0070
M1S027R5401JULY13	634.58	0.0253	0.0100	0.0005	43.0500	0.0274	0.0021	0.0037	9.9920	0.0030	0.0045	0.0648	0.0680	0.0001	2.1200	0.0002	0.0003	0.0004	10.6100	6.0560 0.	0.003 0.002		0.0007	0.0001	0.0100	0.0003	2.1940	0.0040	0.0500	0.0001	3.1240	0.4630	0.0200
M1S028A5401JULY19	293.22	0.0459	0.0100	0.0005	24.1400	0.0251	0.0026	0.0017	17.5400	0.0014	0.0086	0.0133	0.0500	0.0002	0.7760	0.0003	0.0001	0.0003	5.1310	2.9040 0.	0.003		0.0008	0.0001	0.0100	0.0001	1.5040	0.0054	0.0320	0.0001	7.4720	0.2430	0.0092
M1S_028B_5401_AUG15	232.12	0.0200	0.0100	0.0005	23.3800	0.1011	0.0012	0.0058	14.3000	0.0001	0.0032	0.0398	0.3770	0.0000	1.1480	0.0002	0.0000	0.0000	12.0800	4.1090 0.	0000 0.001	0.0017	0.0053	0.0000	0.2020	0.0001	0.0521	0.0040	0.3740	0.0000	8.8680	0.4180	0.0384
M1S029A5401AUG2	148.39	0.0100	0.0100	0.0005	15.3400	0.1027	0.0089	0.0012	7.0860	0.0016	0.0052	0.0146	0.2330	0.0001	1.4830	0.0002	0.0000	0.0001	8.7240	2.3790 0.	0000 0.001	0.0007	0.0015	0.0001	0.0270	0.0001	2.1690	0.0042	0.0480	0.0001	2.9270	0.2410	0.0273
M1S_30A_5401_AU11	255.66	0.0208	0.0100	0.0005	38.9400	0.0568	0.0045	0.0024	7.1030	0.0013	0.0016	0.0226	0.1500	0.0000	0.9470	0.0003	0.0005	0.0000			0000 0.001	0.0025	0.0032	0.0000	0.1740	0.0001	0.4253	0.0048	0.5010	0.0000	2.9370	0.4290	0.0522
M1S_30B_5401_AUG1	106.88	0.0080	0.0100	0.0005	33.4900	0.0148	0.0002	0.0035	6.0800	0.0023	0.0011	0.0255	0.4250	0.0000	0.9960	0.0003	0.0002	0.0000			0.002		0.0021	0.0000	0.1450	0.0000	1.0250	0.0034	0.5860	0.0000	1.8860	0.3670	0.2583
M1S_30C_5401_AUG14	222.36	0.0031	0.0180	0.0005	40.8100	0.1004	0.0012	0.0037	21.2300	0.0021	0.0129	0.0189	0.2330	0.0000	0.9390	0.0004	0.0000	0.0001			0.003 0.003		0.0021	0.0000	0.1860	0.0001	0.0001	0.0083	0.6460	0.0000	16.7000	0.6520	0.1126
M1S_30D_5401_AUG15	214.01	0.0241	0.0190	0.0005	39.9800	0.0183	0.0028	0.0023	17.4400	0.0008	0.0070	0.0385	0.1470	0.0001	1.4510	0.0002	0.0001	0.0002	13.8700	4.5730 0.	0.003 0.003		0.0030	0.0000	0.0900	0.0000	3.6990	0.0059	0.5390	0.0000	9.9890	0.6610	0.0374
M1S_31A_5401_AUG 22	207.83	0.0248	0.0100	0.0005	40.3500	0.0373	0.0011	0.0029	19.0200	0.0011	0.0062	0.0179	0.1430	0.0001	1.3130	0.0007	0.0002	0.0003			0000 0.003	0.0057	0.0008	0.0001	0.1400	0.0000	2.0540	0.0054	0.7120	0.0000	9.5590	0.3960	0.0317
M1S_31B_5401_AUG 22	184.77	0.0237	0.0100	0.0005	40.2300	0.1349	0.0013	0.0018	14.3000	0.0013	0.0083	0.0261	0.1060	0.0003	1.0820	0.0008	0.0003	0.0001			0.005 0.001		0.0048	0.0000	0.1130	0.0000	0.8374	0.0056	0.4680	0.0000	8.7540	0.5180	0.0350
M15_32A_5401_AUG 25	164.33	0.0073	0.0100	0.0005	30.0500	0.0534	0.0037	0.0022	13.5600	0.0009	0.0076	0.0421	0.3000	0.0001	1.5730	0.0031	0.0003	0.0004			0.003	0.0012	0.0006	0.0006	0.0430	0.0000	2.5560	0.0078	0.5060	0.0000	4.9340	0.9420	0.0750
M15_32B_5401_AUG25	126.17	0.0150	0.0100	0.0005	33.4000	0.0243	0.0001	0.0017	14.1200	0.0024	0.0080	0.0288	0.1450	0.0000	1.5660	0.0044	0.0014	0.0003		5.8590 0.	0.007 0.001		0.0022	0.0009	0.0270	0.0000	1.4110	0.0083	0.3290	0.0000	6.6230	1.3800	0.0300
M1S_33A_5401_AUG 23	170.69	0.0041	0.0100	0.0005	47.8000	0.0357	0.0036	0.0029	7.3310	0.0017	0.0025	0.0147	0.0520	0.0000	1.1590	0.0013	0.0003	0.0002			0008 0.004		0.0022	0.0003	0.0980	0.0000	1.1330	0.0058	0.5050	0.0000	1.3610	0.2420	0.0535
M1S_33B_5401_AUG 23	160.64	0.0101	0.0100	0.0005	48.9900	0.0267	0.0015	0.0022	5.7570		0.0044	0.0210	0.0600	0.0001	1.2100	0.0017	0.0008	0.0002	6.5620		0.002		0.0015	0.0004	0.0980	0.0002	1.0670	0.0065	0.4430	0.0000	1.8410	0.6100	0.0573
M1S_34A_5401_AUG28	166.90	0.0026	0.0320	0.0005	41.4000	0.0595	0.0156	0.0041	3.2910	0.0021	0.0351	0.0375	0.1890	0.0007	1.3480	0.0013	0.0005	0.0007			0.002		0.0026	0.0001	0.0520	0.0005	4.7810	0.0219	0.2880	0.0000	0.8960	0.7210	0.1651
M1S_36A_5401_AUG29	101.30	0.0035	0.0100	0.0008	13.1500	0.0326	0.0045	0.0022	12.3200	0.0023	0.0063	0.0097	0.1360	0.0003	0.5010	0.0008	0.0003	0.0003	2.4750	1.7710 0.	0.007 0.002	0.0039	0.0035	0.0001	0.0660	0.0000	3.7800	0.0052	0.3430	0.0000	8.3510	0.1180	0.0396
Sample	66 Element Total (ppm)	Na	Nb	Nd	Ni	Р	Pb	Pd	Pr	Pt	Rb	Re	S	Sb	Sc	Se	Si	Sm	Sn		Ta Tb	Те	Th	Ti	TI	Tm	U	v	W	Y	Yb	Zn	Zr
M1S_022_5401_JUNE27	858.93	4.3970	0.0001	0.0054	0.1760	699.5000	0.0766	0.0012	0.0007	0.0010	0.0040	0.0007	17.6000	0.0028	0.0010	0.0200	18.2000	0.0007			0.000 0.000		0.0097	1.0860	0.0008	0.0001	0.0025	0.7600	0.0100	0.0096	0.0008	42.6100	0.0074
M1S_023_5401_JUNE28	11386.03	11.9700	0.0028	0.0064	0.3250	10990.0000	0.0614	0.0009	0.0011	0.0010	0.0045	0.0002	183.1000	0.0103	0.0010	0.0200	9.2280	0.0007			0.000 0.000	0.0001	0.0098	1.9990	0.0007	0.0002	0.0110	0.4480	0.0100	0.0050	0.0004	31.1900	0.0671
M1S0245401JULY3	858.64	5.0190	0.0014	0.0031	1.4840	633.3000	0.0840	0.0005	0.0006		0.0029	0.0003	63.1100		0.0010	0.0310	52.0000	0.0015			0.000			0.2337	0.0032	0.0001	0.0121	0.3880	0.0100	0.0035	0.0005	29.1300	0.0058
M1S0255401JULY4	1304.11	6.2130	0.0016	0.0049	15.6400	1090.0000	0.0523																0.0124	0.2140			0.0156		0.0100	0.0046	0.0001	14.8700	0.0077
M1S026A5401JULY11	1741.89	6.2900	0.0013			-		0.0005	0.0012	0.0010	0.0050	0.0002	67.2300	0.0162	0.0010	0.0200	27.3600	0.0015			0.000	0.0031			0.0020	0.0001		0.4510					
M1S027R5401JULY13	634.58	-		0.0048	11.6300	1428.0000	0.0460	0.0005	0.0009	0.0010	0.0057	0.0003	79.6600	0.0108	0.0020	0.0200	32.5100	0.0010	0.4709	0.0405 0.	0.000	0.0021	0.0211	0.3800	0.0014	0.0000	0.0068	0.4300	0.0100	0.0069	0.0003	12.1800	0.0088
		17.1000	0.0003	0.0011	50.0900	433.4000	0.0460 0.2101	0.0005 0.0005	0.0009 0.0005	0.0010 0.0010	0.0057 0.0040	0.0003 0.0001	79.6600 22.7200	0.0108 0.0045	0.0020 0.0010	0.0200 0.0200	32.5100 19.1200	0.0010 0.0004	0.4709 0.3565	0.0405 0. 0.0127 0.	0048 0.000 0026 0.000	0.0021	0.0211 0.0133	0.3800 0.4293	0.0014 0.0011	0.0000 0.0000	0.0068 0.0095	0.4300 0.6610	0.0100 0.0100	0.0069 0.0035	0.0002	12.1800 12.4900	0.0104
M1S028A5401JULY19	293.22	1.7890	0.0003 0.0003	0.0011 0.0046	50.0900 8.2210	433.4000 158.6000	0.0460 0.2101 0.0687	0.0005 0.0005 0.0005	0.0009 0.0005 0.0013	0.0010 0.0010 0.0010	0.0057 0.0040 0.0060	0.0003 0.0001 0.0001	79.6600 22.7200 38.7900	0.0108 0.0045 0.0043	0.0020 0.0010 0.0010	0.0200 0.0200 0.0200	32.5100 19.1200 19.1100	0.0010 0.0004 0.0007	0.4709 0.3565 0.4907	0.0405 0. 0.0127 0. 0.0170 0.	0048 0.000 0026 0.000 0018 0.000	0.0021 0.0005 0.0004	0.0211 0.0133 0.0049	0.3800 0.4293 0.1887	0.0014 0.0011 0.0005	0.0000 0.0000 0.0000	0.0068 0.0095 0.0095	0.4300 0.6610 0.3010	0.0100 0.0100 0.0100	0.0069 0.0035 0.0020	0.0002 0.0001	12.1800 12.4900 5.6360	0.0104 0.0070
M1S_028B_5401_AUG15	293.22 232.12	1.7890 2.8160	0.0003 0.0003 0.0399	0.0011 0.0046 0.0033	50.0900 8.2210 8.1600	433.4000 158.6000 105.0000	0.0460 0.2101 0.0687 0.1517	0.0005 0.0005 0.0005 0.0005	0.0009 0.0005 0.0013 0.0006	0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044	0.0003 0.0001 0.0001 0.0004	79.6600 22.7200 38.7900 32.5600	0.0108 0.0045 0.0043 0.0134	0.0020 0.0010 0.0010 0.0020	0.0200 0.0200 0.0200 0.0200	32.5100 19.1200 19.1100 9.8660	0.0010 0.0004 0.0007 0.0009	0.4709 0.3565 0.4907 0.6002	0.0405 0. 0.0127 0. 0.0170 0. 0.0130 0.	0048 0.000 0026 0.000 0018 0.000 0230 0.000	 0.0021 0.0005 0.0004 0.0019 	0.0211 0.0133 0.0049 0.0045	0.3800 0.4293 0.1887 0.2703	0.0014 0.0011 0.0005 0.0125	0.0000 0.0000 0.0000 0.0000	0.0068 0.0095 0.0095 0.0159	0.4300 0.6610 0.3010 0.6020	0.0100 0.0100 0.0100 0.0430	0.0069 0.0035 0.0020 0.0029	0.0002 0.0001 0.0004	12.1800 12.4900 5.6360 6.3390	0.0104 0.0070 0.0110
M1S_028B_5401_AUG15 M1S029A5401AUG2	293.22 232.12 148.39	1.7890 2.8160 3.9900	0.0003 0.0003 0.0399 0.0003	0.0011 0.0046 0.0033 0.0023	50.0900 8.2210 8.1600 6.8260	433.4000 158.6000 105.0000 47.3900	0.0460 0.2101 0.0687 0.1517 0.0943	0.0005 0.0005 0.0005 0.0005 0.0005	0.0009 0.0005 0.0013 0.0006 0.0007	0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022	0.0003 0.0001 0.0001 0.0004 0.0001	79.6600 22.7200 38.7900 32.5600 23.5200	0.0108 0.0045 0.0043 0.0134 0.0056	0.0020 0.0010 0.0010 0.0020 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 19.1200 19.1100 9.8660 21.1800	0.0010 0.0004 0.0007 0.0009 0.0009	0.4709 0.3565 0.4907 0.6002 0.3021	0.0405 0. 0.0127 0. 0.0170 0. 0.0130 0. 0.0220 0.	0048 0.000 0026 0.000 0018 0.000 0230 0.000 0014 0.000	 0.0021 0.0005 0.0004 0.0019 0.0027 	0.0211 0.0133 0.0049 0.0045 0.0037	0.3800 0.4293 0.1887 0.2703 0.0764	0.0014 0.0011 0.0005 0.0125 0.0028	0.0000 0.0000 0.0000 0.0000 0.0000	0.0068 0.0095 0.0095 0.0159 0.0203	0.4300 0.6610 0.3010 0.6020 0.3740	0.0100 0.0100 0.0100 0.0430 0.0100	0.0069 0.0035 0.0020 0.0029 0.0022	0.0002 0.0001 0.0004 0.0001	12.1800 12.4900 5.6360 6.3390 3.6920	0.0104 0.0070 0.0110 0.0030
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11	293.22 232.12 148.39 255.66	1.7890 2.8160 3.9900 4.7830	0.0003 0.0003 0.0399 0.0003 0.0275	0.0011 0.0046 0.0033 0.0023 0.0004	50.0900 8.2210 8.1600 6.8260 4.5390	433.4000 158.6000 105.0000 47.3900 121.0000	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574	0.0005 0.0005 0.0005 0.0005 0.0005	0.0009 0.0005 0.0013 0.0006 0.0007 0.0003	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101	0.0003 0.0001 0.0001 0.0004 0.0001 0.0004	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000	0.0108 0.0045 0.0043 0.0134 0.0056 0.0067	0.0020 0.0010 0.0010 0.0020 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 19.1200 9.8660 21.1800 10.8400	0.0010 0.0004 0.0007 0.0009 0.0009 0.0005	0.4709 0.3565 0.4907 0.6002 0.3021 0.5206	0.0405 0. 0.0127 0. 0.0170 0. 0.0130 0. 0.0220 0. 0.0211 0.	0048 0.000 0026 0.000 0018 0.000 0230 0.000 0014 0.000 0014 0.000 0219 0.000	 0.0021 0.0005 0.0004 0.0019 0.0027 0.0030 	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233	0.0014 0.0011 0.0005 0.0125 0.0028 0.0056	0.0000 0.0000 0.0000 0.0000 0.0000	0.0068 0.0095 0.0095 0.0159 0.0203 0.0146	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290	0.0100 0.0100 0.0430 0.0100 0.0330	0.0069 0.0035 0.0020 0.0029 0.0022 0.0025	0.0002 0.0001 0.0004 0.0001 0.0004	12.1800 12.4900 5.6360 6.3390 3.6920 2.6020	0.0104 0.0070 0.0110 0.0030 0.0074
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1	293.22 232.12 148.39 255.66 106.88	1.7890 2.8160 3.9900 4.7830 0.2010	0.0003 0.0003 0.0399 0.0003 0.0275 0.0189	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0002	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065	0.0003 0.0001 0.0001 0.0004 0.0001 0.0004 0.0009	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900	0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139	0.0020 0.0010 0.0020 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 1 19.1200 1 9.8660 1 21.1800 1 8.3760 1	0.0010 0.0004 0.0007 0.0009 0.0009 0.0005 0.0002	0.4709 0.3565 0.4907 0.6002 0.3021 0.5206 0.4121	D.0405 0. D.0127 0. D.0170 0. D.0130 0. D.0220 0. D.0211 0. D.0126 0.	0048 0.000 0026 0.000 0018 0.000 0230 0.000 0014 0.000 0219 0.000 0120 0.000	 0.0021 0.0005 0.0004 0.0019 0.0027 0.0030 0.0012 	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049 0.0038	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285	0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001	0.0068 0.0095 0.0095 0.0159 0.0203 0.0146 0.0101	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440	0.0100 0.0100 0.0430 0.0100 0.0330 0.0320	0.0069 0.0035 0.0020 0.0029 0.0022 0.0025 0.0020	0.0002 0.0001 0.0004 0.0001 0.0004 0.0001	12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1 M1S_30C_5401_AUG14	293.22 232.12 148.39 255.66 106.88 222.36	1.7890 2.8160 3.9900 4.7830 0.2010 4.5240	0.0003 0.0003 0.0399 0.0003 0.0275 0.0189 0.0276	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0002 0.0017	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060	0.0003 0.0001 0.0001 0.0004 0.0001 0.0004 0.0009 0.0010	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400	0.0108 0.0045 0.0134 0.0056 0.0067 0.0139 0.0123	0.0020 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 1 19.1200 1 9.8660 1 21.1800 1 8.3760 1 1.8500 1	0.0010 0.0004 0.0007 0.0009 0.0009 0.0005 0.0002 0.0007	0.4709 0.3565 0.4907 0.6002 0.3021 0.5206 0.4121 0.4670	D.0405 0. D.0127 0. D.0170 0. D.0130 0. D.0220 0. D.0221 0. D.0126 0. D.0126 0.	0048 0.000 0026 0.000 0018 0.000 0230 0.000 0014 0.000 0219 0.000 0228 0.000	0.0021 0.0005 0.0004 0.0019 0.0027 0.0030 0.0012 0.0012	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049 0.0038 0.0064	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430	0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029 0.0034	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001	0.0068 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990	0.0100 0.0100 0.0430 0.0100 0.0330 0.0320 0.0340	0.0069 0.0035 0.0020 0.0029 0.0022 0.0025 0.0020 0.0015	0.0002 0.0001 0.0004 0.0001 0.0004 0.0001 0.0001	12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1 M1S_30C_5401_AUG14 M1S_30D_5401_AUG15	293.22 232.12 148.39 255.66 106.88 222.36 214.01	1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430	0.0003 0.0003 0.0399 0.0003 0.0275 0.0189 0.0276 0.0209	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0002 0.0017 0.0013	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0084	0.0003 0.0001 0.0001 0.0004 0.0004 0.0004 0.0009 0.0010 0.0003	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400	0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0123 0.0071	0.0020 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 1 19.1200 1 19.1100 1 9.8660 1 21.1800 1 8.3760 1 11.8500 1 3.7400 1	0.0010 0.0004 0.0007 0.0009 0.0005 0.0005 0.0002 0.0007	0.4709 0.3565 0.4907 0 0.6002 0 0.5206 0 0.4121 0 0.4670 0	D.0405 D. D.0127 O. D.0170 O. D.0170 O. D.0130 O. D.0122 O. D.0220 O. D.0211 O. D.0126 O. D.0164 O.	0048 0.000 0026 0.000 0018 0.000 0014 0.000 0014 0.000 0120 0.000 0123 0.000 014 0.000 0120 0.000 0238 0.000 0162 0.000	0.0021 0.0005 0.0004 0.0019 0.0027 0.0030 0.0012 0.0012 0.0012 0.0021	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049 0.0038 0.0064 0.0056	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430 0.1674	0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029 0.0034 0.0022	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0000 0.0000	0.0068 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990 1.4960	0.0100 0.0100 0.0430 0.0100 0.0330 0.0320 0.0340 0.0260	0.0069 0.0035 0.0020 0.0029 0.0022 0.0025 0.0020 0.0015 0.0052	0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001	12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950 2.9640	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1 M1S_30C_5401_AUG14 M1S_30D_5401_AUG15 M1S_31A_5401_AUG 22	293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83	1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160	0.0003 0.0399 0.0003 0.0275 0.0189 0.0276 0.0209 0.0318	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236 0.1095	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0008	0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0002 0.0017 0.0013 0.0011	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0084 0.0111	0.0003 0.0001 0.0001 0.0004 0.0004 0.0009 0.0010 0.0003 0.0009	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 19.8100	0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0123 0.0071 0.0084	0.0020 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 1 19.1200 1 19.1100 1 9.8660 1 21.1800 1 8.3760 1 11.8500 1 3.7400 1 19.4500 1	0.0010 0.0004 0.0007 0.0009 0.0005 0.0002 0.0007 0.0007 0.0007	0.4709 0.3565 0.4907 0.6002 0.3021 0.5206 0.4121 0.4670 0.6402 0.7413	D.0405 D. D.0127 O. D.0177 O. D.0170 O. D.0130 O. D.0122 O. D.0220 O. D.0211 O. D.0126 O. D.0164 O. D.0164 O. D.0140 O.	0048 0.000 0026 0.000 0118 0.000 0230 0.000 0241 0.000 0212 0.000 0212 0.000 0212 0.000 0223 0.000 0234 0.000 0234 0.000	0.0021 0.0005 0.0004 0.0019 0.0027 0.0030 0.0012 0.0012 0.0021 0.0021 0.0021	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049 0.0038 0.0064 0.0056 0.0058	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430 0.1674 0.1630	0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029 0.0034 0.0022 0.0026	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0000 0.0001 0.0001	0.0068 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.0071	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990 1.4960 1.5850	0.0100 0.0100 0.0430 0.0330 0.0320 0.0340 0.0260 0.0270	0.0069 0.0035 0.0020 0.0029 0.0022 0.0025 0.0020 0.0015 0.0052 0.0075	0.0002 0.0001 0.0004 0.0001 0.0004 0.0001 0.0001 0.0003 0.0001	12.1800 12.4900 5.6360 6.3390 2.6020 2.1590 2.3950 2.9640 1.9670	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1 M1S_30D_5401_AUG14 M1S_30D_5401_AUG15 M1S_31A_5401_AUG 22 M1S_31B_5401_AUG 22	293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77	1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160 0.6460	0.0003 0.0099 0.0003 0.0275 0.0189 0.0276 0.0209 0.0318 0.0136	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236 0.1095 0.0994	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0008 0.0005	0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0002 0.0017 0.0013 0.0011 0.0010	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0084 0.0111 0.0058	0.0003 0.0001 0.0001 0.0004 0.0004 0.0009 0.0010 0.0003 0.0009 0.0009	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 19.8100 24.4600	0.0108 0.0045 0.0134 0.0056 0.0067 0.0139 0.0123 0.0071 0.0084 0.0021	0.0020 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 19.1200 19.1100 1 9.8660 1 21.1800 1 8.3760 1 11.8500 1 13.7400 1 19.4500 1	0.0010 0.0007 0.0009 0.0009 0.0005 0.0002 0.0007 0.0007 0.0007 0.0014 0.0006	0.4709 0.3565 0.4907 0.6002 0.3021 0.5206 0.4121 0.4670 0.6402 0.7413 0.9367	0.0405 0. 0.0127 0. 0.0127 0. 0.0170 0. 0.0130 0. 0.0220 0. 0.0211 0. 0.0126 0. 0.0164 0. 0.0164 0. 0.0190 0. 0.0118 0.	0048 0.000 0026 0.000 0018 0.000 0230 0.000 0214 0.000 02120 0.000 0120 0.000 0120 0.000 0120 0.000 0120 0.000 0123 0.000 0124 0.000 0125 0.000 0124 0.000	0.0021 0.0005 0.0004 0.0019 0.0027 0.0030 0.0012 0.0012 0.0021 0.0021 0.0039 0.00391	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049 0.0038 0.0064 0.0056 0.0058 0.0051	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430 0.1674 0.1630 0.2063	0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029 0.0034 0.0022 0.0026 0.0026	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0001 0.0001	0.0068 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.0071 0.0058	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990 1.4960 1.5850 1.3320	0.0100 0.0100 0.0430 0.0330 0.0320 0.0340 0.0260 0.0270 0.0230	0.0069 0.0035 0.0020 0.0022 0.0025 0.0020 0.0015 0.0052 0.0075 0.0084	0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	12.1800 12.4900 5.6360 6.3390 2.6020 2.1590 2.3950 2.9640 1.9670 1.9730	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0074
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AUG1 M1S_30B_5401_AUG1 M1S_30C_5401_AUG14 M1S_30D_5401_AUG15 M1S_31A_5401_AUG 22 M1S_31B_5401_AUG 22 M1S_32A_5401_AUG 25	293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33	1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160 0.6460	0.0003 0.0399 0.0003 0.0275 0.0189 0.0276 0.0209 0.0318 0.0136 0.0105	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042 0.0042	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236 0.1095 0.0994 0.1269	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0008 0.0005	0.0009 0.0005 0.0013 0.0007 0.0003 0.0002 0.0017 0.0013 0.0011 0.0010	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0084 0.0111 0.0058 0.0065	0.0003 0.0001 0.0004 0.0004 0.0004 0.0004 0.0009 0.0010 0.0003 0.0009 0.0004 0.0005	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 19.8100 24.4600 25.7000	0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0123 0.0071 0.0084 0.0021 0.0306	0.0020 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 1 19.1200 1 9.8660 1 21.1800 1 8.3760 1 11.8500 1 13.7400 1 19.4500 1 11.2000 9 9.9880 1	0.0010 0.0007 0.0009 0.0009 0.0005 0.0002 0.0007 0.0007 0.0014 0.0006	0.4709 0.3565 0.4907 0.6002 0.3021 0.5206 0.4121 0.4670 0.46402 0.7413 0.9367 0.8833	D.0405 D. D.0127 0. D.0127 0. D.0170 0. D.0130 0. D.0130 0. D.0220 0. D.0126 0. D.0126 0. D.0164 0. D.0164 0. D.0190 0. D.0118 0.	0048 0.000 0026 0.000 0018 0.000 0014 0.000 0014 0.000 0110 0.000 0120 0.000 0121 0.000 0120 0.000 0120 0.000 0122 0.000 0123 0.000 0124 0.000 0125 0.000 0123 0.000	0.0021 0.0005 0.0004 0.0019 0.0027 0.0030 0.0012 0.0012 0.0021 0.0021 0.0039 0.0021 0.0021	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049 0.0038 0.0064 0.0056 0.0058 0.0051 0.0102	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430 0.1674 0.1630 0.2063 0.1682	0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029 0.0034 0.0022 0.0026 0.0024 0.0018	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0001 0.0000 0.0002	0.0068 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.0071 0.0058 0.0128	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990 1.4960 1.5850 1.3320 1.5700	0.0100 0.0100 0.0430 0.0330 0.0320 0.0340 0.0260 0.0270 0.0230 0.0240	0.0069 0.0035 0.0020 0.0022 0.0025 0.0020 0.0015 0.0052 0.0075 0.0084 0.0218	0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0003 0.0001 0.0001 0.0003	12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950 2.9640 1.9670 1.9730 2.2340	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0074 0.0075
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1 M1S_30C_5401_AUG14 M1S_30C_5401_AUG14 M1S_31A_5401_AUG 22 M1S_31B_5401_AUG 22 M1S_32A_5401_AUG 25 M1S_32B_5401_AUG25	293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33 126.17	1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160 0.6460 0.4650 0.1000	0.0003 0.0399 0.0003 0.0275 0.0189 0.0276 0.0209 0.0318 0.0136 0.0105 0.0053	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042 0.0037 0.0042	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180 3.1130	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300 25.3200	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236 0.1095 0.0994 0.1269 0.1052	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0008 0.0005 0.0005 0.0005	0.0009 0.0013 0.0006 0.0007 0.0003 0.0002 0.0017 0.0013 0.0011 0.0010 0.0012 0.0011	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0084 0.0111 0.0058 0.0065	0.0003 0.0001 0.0004 0.0004 0.0004 0.0009 0.0010 0.0003 0.0009 0.0004 0.0005 0.0006	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 19.8100 24.4600 25.7000 9.4930	0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0123 0.0071 0.0084 0.0021 0.0306 0.0001	0.0020 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 1 19.1200 1 9.8660 1 21.1800 1 8.3760 1 13.7400 1 19.4500 1 19.4500 1 9.9880 1 5.6310 1	0.0010 0.0007 0.0009 0.0005 0.0002 0.0007 0.0007 0.0004 0.0012 0.0012	0.4709 0.3565 0.4907 0.6002 0.3021 0.4207 0.4121 0.4407 0.4121 0.4602 0.7413 0.9367 0.8833 1.0440	D.0405 D. D.0127 D. D.0170 D. D.0130 D. D.0130 D. D.0130 D. D.0130 D. D.0130 D. D.0130 D. D.0121 D. D.0164 D. D.0164 D. D.0140 D. D.0140 D. D.0118 D. D.0173 D.	0048 0.000 0026 0.000 0018 0.000 0230 0.000 0014 0.000 0212 0.000 0122 0.000 0123 0.000 0124 0.000 0125 0.000 0126 0.000 0127 0.000 0128 0.000 0129 0.000 0121 0.000 0122 0.000	0.0021 0.0005 0.0004 0.0019 0.0027 0.0030 0.0012 0.0012 0.0021 0.0021 0.0039 0.0039 0.0021 0.0021 0.0023 0.0039 0.0021 0.0038 0.0039 0.0031	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049 0.0038 0.0064 0.0056 0.0056 0.0058 0.0051 0.0102 0.0101	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430 0.1630 0.1630 0.2063 0.1682 0.2025	0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029 0.0034 0.0022 0.0026 0.0024 0.0018	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0001 0.0001 0.0000 0.0002 0.0001	0.0068 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.0071 0.0058 0.0128 0.0128	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990 1.4960 1.5850 1.5850 1.5320 1.5700 1.4540	0.0100 0.0100 0.0430 0.0330 0.0320 0.0340 0.0260 0.0270 0.0230 0.0240 0.02150	0.0069 0.0035 0.0020 0.0029 0.0022 0.0025 0.00015 0.0052 0.0075 0.0084 0.0218 0.0243	0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0003 0.0001 0.0003 0.0003	12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950 2.9640 1.9670 1.9730 2.2340 2.2340	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0074 0.0075 0.0071
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1 M1S_30D_5401_AUG14 M1S_30D_5401_AUG15 M1S_31A_5401_AUG 22 M1S_31B_5401_AUG 22 M1S_32B_5401_AUG 25 M1S_32B_5401_AUG25 M1S_33A_5401_AUG 23	293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33 126.17 170.69	1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160 0.6460 0.4650 0.1000 2.5810	0.0003 0.0033 0.0399 0.0003 0.0275 0.0189 0.0276 0.0209 0.0318 0.0136 0.0105 0.0053 0.0192	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042 0.0042 0.0042 0.0042	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180 3.1130 1.2750	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300 25.3200 31.6600	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1828 0.1265 0.0994 0.1269 0.1052 0.1258	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0001 0.0017 0.0011 0.0010 0.0011 0.0011 0.0004	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0111 0.0058 0.0065 0.0061 0.0052	0.0003 0.0001 0.0004 0.0004 0.0009 0.0004 0.0009 0.0010 0.0003 0.0009 0.0004 0.0005 0.0006	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 19.8100 24.4600 25.7000 9.4930 43.3000	0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0123 0.0071 0.0084 0.0021 0.0306 0.0001 0.0074	0.0020 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 1 19.1200 1 9.8660 1 21.1800 1 10.8400 1 8.3760 1 13.7400 1 9.4500 1 10.8400 1 13.7400 1 9.94500 1 9.9880 1 5.6310 1 17.5800 1	0.0010 0.0004 0.0009 0.0009 0.0005 0.0002 0.0007 0.0007 0.0014 0.0006 0.0012 0.0012	0.4709 0.3565 0.4907 0.6002 0.3021 0.5206 0.4121 0.4670 0.6402 0.7413 0.9367 0.8833 1.0440 0.1453	0.0405 0. 0.0127 0. 0.0127 0. 0.0170 0. 0.0170 0. 0.0170 0. 0.0170 0. 0.0170 0. 0.0120 0. 0.0121 0. 0.0164 0. 0.0164 0. 0.0170 0. 0.0173 0. 0.0173 0. 0.0123 0.	0048 0.000 0026 0.000 0018 0.000 0014 0.000 0014 0.000 0120 0.000 01219 0.000 01220 0.000 012219 0.000 01220 0.000 01220 0.000 0122 0.000 0133 0.000 0142 0.000 0142 0.000	0.0021 0.0005 0.0019 0.0019 0.0012 0.0012 0.0012 0.0021 0.0039 0.0039 0.0034 0.0035 0.0012 0.0034 0.0035 0.0036 0.0037 0.0039 0.0038 0.0013 0.0013	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049 0.0038 0.0064 0.0056 0.0055 0.0051 0.0102 0.0101 0.0045	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430 0.1630 0.2063 0.2025 0.1518	0.0014 0.0015 0.0125 0.0028 0.0056 0.0029 0.0034 0.0022 0.0024 0.0024 0.0018 0.0010	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0001 0.0001 0.0000 0.0002 0.0001 0.0001	0.0068 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.0071 0.0058 0.0128 0.0128 0.0066 0.0157	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1400 1.4960 1.5850 1.3320 1.5700 1.4540 1.6290	0.0100 0.0100 0.0430 0.0330 0.0320 0.0320 0.0260 0.0260 0.0220 0.0230 0.0230 0.0230 0.0230	0.0069 0.0035 0.0020 0.0022 0.0025 0.0025 0.0025 0.0015 0.0075 0.0052 0.0084 0.0218 0.0243 0.0129	0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0003 0.0005 0.0001	12.1800 12.4900 5.6360 6.3390 2.6020 2.1590 2.3950 2.9640 1.9670 1.9730 2.2340 2.2340 2.3170 1.4730	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0074 0.0075 0.0071 0.0535
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1 M1S_30C_5401_AUG14 M1S_30D_5401_AUG15 M1S_31A_5401_AUG 22 M1S_31A_5401_AUG 22 M1S_32A_5401_AUG 22 M1S_32B_5401_AUG 23 M1S_33B_5401_AUG 23	293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33 126.17 170.69 160.64	1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 0.6460 0.4650 0.1000 2.5810 1.5590	0.0003 0.003 0.0399 0.0003 0.0275 0.0189 0.0276 0.0209 0.0318 0.0136 0.0105 0.0105 0.0053 0.0192 0.0209	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042 0.0042 0.0037 0.0020 0.0020 0.0014	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180 3.7180 3.1130 1.2750 1.4580	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300 25.3200 31.6600 31.0800	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236 0.1095 0.0994 0.1269 0.1055 0.0994 0.1258 0.1339	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0002 0.0017 0.0013 0.0011 0.0012 0.0011 0.0004 0.0006	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0010 0.0065 0.0060 0.0084 0.0111 0.0058 0.0065 0.0061 0.0061 0.0052	0.0003 0.0001 0.0001 0.0004 0.0004 0.0009 0.0010 0.0003 0.0009 0.0004 0.0005 0.0006 0.0006 0.0006	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 19.8100 24.4600 25.7000 9.4930 43.3000 29.5400	0.0108 0.0045 0.0043 0.0134 0.0066 0.0067 0.0139 0.0123 0.0071 0.0084 0.0021 0.0306 0.0001 0.0074 0.0054	0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 1 19.1200 9 19.1100 9 21.1800 1 10.8400 1 8.3760 1 11.8500 1 13.7400 9 9.9880 5 5.6310 1 17.5800 2	0.0010 0.0007 0.0009 0.0009 0.0005 0.0002 0.0007 0.0007 0.0004 0.0006 0.0012 0.0008 0.0008	0.4709 0 0.3565 0 0.4907 0 0.6002 0 0.5206 0 0.4121 0 0.4121 0 0.4670 0 0.4121 0 0.4670 0 0.4123 0 0.8833 0 1.0440 0 0.1453 0 0.1881 0	0.0405 0. 0.0127 0. 0.0170 0. 0.0130 0. 0.0130 0. 0.0120 0. 0.0121 0. 0.0126 0. 0.0141 0. 0.0140 0. 0.0140 0. 0.0141 0. 0.0140 0. 0.0141 0. 0.0143 0. 0.0144 0. 0.0145 0. 0.0146 0. 0.0147 0. 0.0149 0. 0.0213 0. 0.0141 0.	0048 0.000 0026 0.000 0021 0.000 00230 0.000 0024 0.000 00219 0.000 002238 0.000 002238 0.000 0142 0.000 0143 0.000 0142 0.000 0143 0.000 0142 0.000 0042 0.000 0188 0.000	0.0021 0.0005 0.0004 0.0019 0.0027 0.0012 0.0012 0.0012 0.0039 0.0039 0.0021 0.0030 0.0031 0.0032 0.0033 0.0034 0.0035 0.0012 0.0013 0.0013 0.0014	0.0211 0.0133 0.0049 0.0045 0.0037 0.0037 0.0049 0.0056 0.0058 0.0051 0.0102 0.0101 0.0101 0.0105	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430 0.1674 0.1630 0.2063 0.2025 0.2025 0.1518 0.1982	0.0014 0.0015 0.0125 0.0028 0.0056 0.0029 0.0034 0.0026 0.0024 0.0024 0.0018 0.0015 0.0017	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0001 0.0001 0.0002 0.0001 0.0001 0.0001	0.0068 0.0095 0.0159 0.0203 0.0146 0.0141 0.0158 0.0130 0.0071 0.0058 0.0128 0.0058 0.0128 0.0066 0.0157 0.0134	0.4300 0.6610 0.3010 0.6200 0.3740 0.8290 1.1440 0.9990 1.4960 1.5850 1.3320 1.5700 1.4540 1.6290 1.5260	0.0100 0.0100 0.0430 0.0330 0.0320 0.0340 0.0260 0.0270 0.0230 0.0240 0.0250 0.0270 0.0210	0.0069 0.0035 0.0020 0.0022 0.0025 0.0025 0.0025 0.0052 0.0075 0.0084 0.0218 0.0243 0.0218 0.0243 0.0219	0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0003 0.0005 0.0001 0.0003	12.1800 12.4900 5.6360 6.3390 2.6020 2.1590 2.3950 2.9540 1.9670 1.9730 2.2340 2.3170 1.4730 1.4730	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0074 0.0075 0.0071 0.0535 0.0743
M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1 M1S_30D_5401_AUG14 M1S_30D_5401_AUG15 M1S_31A_5401_AUG 22 M1S_31B_5401_AUG 22 M1S_32B_5401_AUG 25 M1S_32B_5401_AUG25 M1S_33A_5401_AUG 23	293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33 126.17 170.69	1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160 0.6460 0.4650 0.1000 2.5810	0.0003 0.003 0.0399 0.003 0.0275 0.0276 0.029 0.0318 0.0136 0.0136 0.0053 0.0053 0.0053 0.029 0.0209 0.0211	0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042 0.0042 0.0042 0.0042	50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180 3.1130 1.2750	433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300 25.3200 31.6600	0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1828 0.1265 0.0994 0.1269 0.1052 0.1258	0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0001 0.0017 0.0011 0.0010 0.0011 0.0011 0.0004	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0111 0.0058 0.0065 0.0061 0.0052	0.0003 0.0001 0.0004 0.0004 0.0009 0.0004 0.0009 0.0010 0.0003 0.0009 0.0004 0.0005 0.0006	79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 19.8100 24.4600 25.7000 9.4930 43.3000	0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0123 0.0071 0.0084 0.0021 0.0306 0.0001 0.0074	0.0020 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	32.5100 1 19.1200 1 9.8660 1 21.1800 1 10.8400 1 8.3760 1 13.7400 1 9.4500 1 10.8400 1 13.7400 1 9.94500 1 9.9880 1 5.6310 1 17.5800 1	0.0010 0.0004 0.0009 0.0009 0.0005 0.0002 0.0007 0.0007 0.0014 0.0006 0.0012 0.0012	0.4709 0.3565 0.4907 0.0502 0.3021 0.	0.0405 0. 0.0127 0. 0.0170 0. 0.0130 0. 0.0120 0. 0.0211 0. 0.0126 0. 0.0114 0. 0.0126 0. 0.0114 0. 0.0114 0. 0.0113 0. 0.0113 0. 0.0113 0. 0.0113 0. 0.0113 0. 0.0114 0. 0.0115 0.	0048 0.000 0026 0.000 0018 0.000 0014 0.000 0014 0.000 0120 0.000 01219 0.000 01220 0.000 012219 0.000 01220 0.000 01220 0.000 0122 0.000 0133 0.000 0142 0.000 0142 0.000	0.0021 0.0005 0.0004 0.0019 0.0019 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0021 0.0030 0.0031 0.0031 0.0031 0.0031 0.0031 0.0037	0.0211 0.0133 0.0049 0.0045 0.0037 0.0049 0.0058 0.0056 0.0058 0.0051 0.0102 0.0101 0.0045 0.0057 0.0090	0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430 0.1630 0.2063 0.2025 0.1518	0.0014 0.0015 0.0125 0.0028 0.0056 0.0029 0.0034 0.0022 0.0024 0.0024 0.0018 0.0010	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0001 0.0001 0.0000 0.0002 0.0001 0.0001	0.0068 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.0071 0.0058 0.0128 0.0128 0.0066 0.0157	0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1400 1.4960 1.5850 1.3320 1.5700 1.4540 1.6290	0.0100 0.0100 0.0430 0.0330 0.0320 0.0320 0.0240 0.0270 0.0230 0.0240 0.0150 0.0270 0.0270 0.0210	0.0069 0.0035 0.0020 0.0022 0.0025 0.0025 0.0025 0.0015 0.0075 0.0052 0.0084 0.0218 0.0243 0.0129	0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0003 0.0005 0.0001	12.1800 12.4900 5.6360 6.3390 2.6020 2.1590 2.3950 2.9640 1.9670 1.9730 2.2340 2.2340 2.3170 1.4730	0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0074 0.0075 0.0071 0.0535