





ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
kcgaebrisummaryM1.b1	D241111.1	Missing	Software Locked Up - No Data Collected	2024-09-27T17:15:49	2024-09-29T00:03:12
kcgaebrisummaryM1.b1	D250714.7	Missing	Missing Data	2025-07-04T06:09:00	2025-07-07T05:36:50
kcgaebrisummaryM1.b1	D240829.2	Missing	Mirror Controller Locked Up	2024-08-28T15:10:56	2024-08-29T20:12:08
kcgaebrisummaryM1.b1	D250312.1	Missing	Missing Data due to Motor Malfunction	2025-03-09T21:24:26	2025-03-12T04:29:36
kcgaebrisummaryM1.b1	D240520.4	Suspect	Scene Mirror Motor Fault	2024-04-08T21:00:00	2024-04-22T02:55:00
kcgaebrisummaryM1.b1	D250224.2	Suspect	Intermittent Skipped Interferometer Fringes due to Metrology Laser Issue	2024-02-20T18:00:00	2024-09-24T23:59:59
kcgaebrisummaryM1.b1	D240621.9	Incorrect	M-AERI Motor Problem	2024-05-17T05:00:00	2024-05-22T02:40:00
kcgceilM1.b1	D240823.2	Missing	No Data due to Data System Outage	2024-08-10T08:12:01	2024-08-12T06:17:40
kcgceilM1.b1	D250328.23	Missing	Missing Data	2025-03-13T03:59:51	2025-03-14T22:39:23
kcgcorsfM1.b1	D240510.6	Incorrect	Incorrect Data	2024-04-15T01:00:00	2024-04-24T17:00:00
kcgirtM1.b1	D250423.1	Missing	Missing Data	2025-04-07T02:16:00	2025-04-08T04:15:59
kcgldM1.b1	D250513.2	Missing	Missing Data	2025-04-19T03:15:01	2025-04-20T22:53:59
kcgldM1.b1	D250416.2	Missing	Missing Data	2025-03-13T03:58:01	2025-03-15T00:02:59
kcgldM1.b1	D250513.1	Missing	Missing Data	2025-04-06T10:08:01	2025-04-09T01:13:59
kcgldM1.b1	D240905.2	Incorrect	Incorrect Data	2024-09-04T00:00:00	2024-09-04T01:30:00
kcgmawsM1.b1	D240528.2	Missing	Missing Data due to Comms Issue	2024-05-23T13:51:01	2024-05-28T13:55:04
kcgmawsM1.b1	D250619.3	Missing	Missing Data	2025-06-06T23:59:01	2025-06-08T00:01:03
kcgmawsM1.b1	D250311.7	Missing	Missing Data	2025-02-20T14:28:01	2025-02-21T14:13:06
kcgmawsM1.b1	D240524.2	Suspect	Temperature Data Questionable	2024-03-23T00:00:00	2024-04-17T04:00:00
kcgmetM1.b1	D250203.2	Incorrect	Incorrect Data	2024-11-17T00:00:00	2024-11-18T02:30:00
kcgmetM1.b1	D240729.2	Incorrect	Incorrect Data	2024-07-03T04:56:00	2024-07-03T04:59:00
kcgmetM1.b1	D240826.1	Incorrect	False Precipitation Data	2024-06-05T23:21:00	2024-06-05T23:21:59
kcgmetM1.b1	D250516.6	Incorrect	Present Weather Detector Data Incorrect	2025-04-19T05:20:00	2025-04-19T05:20:59
kcgmetM1.b1	D240614.24	Incorrect	Broken Wind Sensor	2024-05-30T20:27:00	2024-06-05T02:30:00
kcgmetM1.b1	D240916.1	Incorrect	Tower Damage Due to High Winds	2024-08-31T07:45:00	2024-09-12T03:00:00
kcgmetM1.b1	D240918.3	Incorrect	Humidity Data Incorrect	2024-09-03T00:25:00	2024-09-18T01:48:00
kcgmetM1.b1	D241209.7	Incorrect	Incorrect Data	2024-10-31T23:15:00	2024-11-01T00:00:00
kcgmetM1.b1	D250122.10	Incorrect	Incorrect Data	2024-10-15T16:00:00	2025-01-08T23:59:59
kcgmetM1.b1	D250509.1	Incorrect	Optical Rain Gauge Condensation	2024-02-13T00:00:00	2024-10-08T01:33:59
kcgmetM1.b1	D250509.2	Suspect	Optical Rain Gauge Reporting High Precipitation Values	2024-10-23T00:00:00	2024-10-24T23:59:59

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
kcgmfr7nch10mM1.b1	D250516.12	Incorrect	Incorrect Data	2025-04-20T04:53:20	2025-04-20T04:55:20
kcgmfr7nch10mM1.b1	D250102.3	Incorrect	Incorrect Data	2024-12-22T09:38:00	2024-12-23T15:00:00
kcgmfr7nch10mM1.b1	D241114.5	Incorrect	Incorrect Data	2024-08-30T00:00:00	2024-09-12T02:00:00
kcgmfr7nch10mM1.b1	D241114.6	Incorrect	Incorrect Data	2024-09-12T02:00:00	2024-11-07T01:19:40
kcgmfr7nch10mM1.b1	D241114.7	Incorrect	Incorrect Data	2024-11-07T01:19:40	2024-11-07T05:30:00
kcgmfr7nch10mM1.b1	D250328.22	Missing	No Data	2025-03-13T05:01:41	2025-03-14T03:49:19
kcgmfrsr7nchM1.b1	D250509.13	Incorrect	Incorrect Data	2025-03-27T23:49:20	2025-04-10T00:34:20
kcgmplpolfsM1.b1	D250319.2	Missing	Missing Data	2025-03-13T03:59:47	2025-03-15T23:20:43
kcgmplpolfsM1.b1	D240628.4	Missing	No Data	2024-05-22T16:59:55	2024-05-24T00:52:54
kcgmrwrlsM1.b1	D240607.3	Missing	Missing Data	2024-06-01T23:15:01	2024-06-03T01:35:32
kcgmrwrlsM1.b1	D240918.2	Missing	Missing Data	2024-08-30T17:28:46	2024-09-02T00:09:44
kcgmrwrlsM1.b1	D250522.3	Missing	Missing Data	2025-05-10T06:59:52	2025-05-11T23:16:46
kcgmrwrlsM1.b1	D250415.4	Missing	Missing Data	2025-03-13T03:26:14	2025-03-14T22:33:43
kcgmrwrlsM1.b1	D240520.6	Missing	No Data	2024-04-27T15:58:01	2024-04-28T22:57:04
kcgmrwrlsM1.b1	D250415.3	Incorrect	Incorrect Brightness Temperatures	2025-04-02T04:00:00	2025-04-02T06:00:00
kcgmrwrls3cM1.b1	D250320.1	Missing	Missing Data	2025-03-13T04:00:00	2025-03-14T04:04:21
kcgmrwrls3cM1.b1	D240820.1	Missing	Missing Data	2024-07-02T04:00:00	2024-07-03T03:13:44
kcgmrwrls3cM1.b1	D240621.6	Incorrect	Excessive Rain Contamination	2024-04-15T00:00:00	2024-05-17T00:00:00
kcgsebsM1.b1	D250908.2	Incorrect	Incorrect Data	2025-08-22T01:30:00	2025-09-15T02:30:00
kcgsebsM1.b1	D250605.1	Incorrect	Incorrect Data	2025-04-16T23:30:00	2025-06-05T00:30:00
kcgirsM1.b1	D240513.1	Suspect	Questionable Data	2025-03-25T21:29:00	2025-03-26T01:15:59
kcgirsM1.b1	D240621.2	Incorrect	Incorrect Data	2024-02-13T00:00:00	2024-03-01T00:54:00
kcgirsM1.b1	D250724.1	Incorrect	Incorrect Data	2025-07-03T00:25:00	2025-07-24T00:30:00
kcgirsM1.b1	D240822.1	Incorrect	Questionable Data	2024-07-26T13:27:11	2024-08-20T02:08:32
kcgirsM1.b1	D240726.2	Incorrect	Incorrect Data	2024-05-10T22:32:52	2024-07-17T02:10:00
kcgsondewnpnM1.b1	D240516.1	Missing	Missing Data	2024-04-24T00:00:00	2024-04-24T23:59:59
kcgsondewnpnM1.b1	D241004.4	Incorrect	Failed Launch	2024-08-31T11:30:00	2024-08-31T13:30:00
kcgvdism1.b1	D251014.3	Missing	Missing Data	2025-09-27T00:00:00	2025-09-28T23:59:59
kcgvdism1.b1	D250318.6	Missing	Missing Data	2025-03-12T23:59:01	2025-03-14T23:59:59
kcgvdism1.b1	D240627.1	Missing	Missing Data	2024-05-23T00:00:00	2024-05-23T23:59:59

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
kcgvdisM1.b1	D240919.1	Missing	No Data	2024-09-12T00:00:00	2024-09-15T23:59:59
kcgvdisM1.b1	D251002.3	Missing	Missing Data	2025-09-27T00:00:00	2025-09-28T23:59:59
kcgvdisM1.b1	D250104.1	Missing	Missing Data	2024-12-09T00:00:00	2024-12-09T23:59:59
kcgvdisM1.b1	D250819.5	Missing	Missing Data	2025-08-08T23:59:01	2025-08-12T23:59:59
kcgvdisM1.b1	D241103.2	Missing	Missing Data	2024-10-18T00:00:00	2024-10-19T23:59:59
kcgvdisM1.b1	D250521.1	Missing	Missing Data	2025-05-23T00:00:00	2025-05-24T23:59:59
kcgvdisM1.b1	D250627.13	Suspect	Suspect Data	2025-05-15T00:00:00	2025-05-16T07:00:00
kcgvdisM1.b1	D250401.12	Suspect	Suspect Data	2025-03-12T00:00:00	2025-03-12T23:59:59
kcgwbluvio2M1.a1	D241126.5	Incorrect	Questionable Data	2024-11-26T03:00:00	2024-11-26T04:30:00
kcgaosapsS3.b1	D250318.2	Incorrect	Incorrect Data	2024-10-09T23:00:00	2024-10-10T02:00:00
kcgaosapsS3.b1	D240731.1	Incorrect	Data Incorrect	2024-07-22T00:00:00	2024-07-26T03:00:00
kcgaosapsS3.b1	D240829.1	Suspect	Suspect Data	2024-08-14T00:00:00	2024-08-27T00:00:00
kcgaosapsS3.b1	D250311.5	Suspect	Suspect Data	2025-02-16T17:30:00	2025-03-05T00:00:00
kcgaosapsS3.b1	D250731.6	Missing	Missing Data	2025-04-04T01:51:17	2025-04-17T03:55:36
kcgaosapsS3.b1	D240506.7	Missing	Missing Data	2024-04-24T05:00:00	2024-07-22T20:46:49
kcgaosapsS3.b1	D250328.17	Missing	Missing Data	2025-03-13T03:58:58	2025-03-14T22:48:04
kcgaosapsS3.b1	D250205.1	Missing	Missing Data	2025-01-29T02:51:33	2025-01-30T22:25:59
kcgaosapsS3.b1	D250711.9	Missing	Missing Data	2025-05-19T23:45:11	2025-06-30T23:05:33
kcgaossp2bc60sS3.b1	D250328.2	Missing	Missing Data	2025-03-13T03:56:01	2025-03-14T22:32:31
kcgaossp2bc60sS3.b1	D240906.2	Missing	Data Missing	2024-04-15T01:18:00	2024-04-17T05:03:28
kcgaossp2bc60sS3.b1	D250711.7	Missing	Missing Data	2025-04-04T01:49:01	2025-04-17T04:10:33
kcgaossp2bc60sS3.b1	D250711.11	Missing	No Data	2025-05-24T23:58:01	2025-05-26T00:00:01
kcgaossp2bc60sS3.b1	D250328.3	Suspect	Questionable Data	2024-12-25T12:09:01	2025-02-26T02:02:02
kcgaosuhsasS3.b1	D240613.1	Incorrect	Incorrect Data	2024-06-11T19:30:00	2024-06-13T00:30:00
kcgaosuhsasS3.b1	D241015.1	Incorrect	Contamination in the Instrument	2024-09-25T13:30:00	2024-09-25T14:30:00
kcgaosuhsasS3.b1	D251016.3	Incorrect	Instrument Contamination	2025-09-27T06:30:00	2025-09-29T01:30:00
kcgaosuhsasS3.b1	D240918.4	Incorrect	Occasional Contamination	2024-09-07T18:00:00	2024-09-08T21:00:00
kcgaosuhsasS3.b1	D250403.2	Incorrect	Internal Contamination	2025-03-06T13:50:00	2025-03-06T16:00:00
kcgaosuhsasS3.b1	D250512.3	Missing	Site Under Maintenance	2025-03-31T00:59:51	2025-04-01T03:12:24
kcgaosuhsasS3.b1	D250324.1	Missing	Instrument Offline	2025-03-13T02:59:51	2025-03-14T03:54:07

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
kcgaoсуhsasS3.b1	D240716.1	Missing	Missing Data	2024-06-17T22:59:55	2024-06-19T03:59:43
kcgaoсуhsasS3.b1	D240607.1	Missing	No Data	2024-05-18T04:59:52	2024-05-20T01:25:25
kcgaoсmetS2.a1	D240910.1	Suspect	Precipitation Data High	2024-08-06T00:00:00	2024-08-06T23:59:59
kcgaoсmetS2.a1	D241203.1	Suspect	Questionable Data	2025-01-15T00:00:00	2025-01-16T23:59:59
kcgaoсmetS2.a1	D240805.2	Suspect	High Precipitation Data	2024-06-29T00:00:00	2024-06-29T23:59:59
kcgaoсmetS2.a1	D240725.1	Missing	Missing Data	2024-07-20T22:06:01	2024-07-24T21:04:59
kcgaoсmetS2.a1	D250501.2	Missing	No Data	2025-04-06T22:55:09	2025-04-17T05:01:54
kcgaoсmetS2.a1	D241031.2	Missing	Software Problem	2024-10-14T23:20:09	2024-10-16T00:54:22
kcgaoсmetS2.a1	D250328.21	Missing	No Data	2025-03-13T04:08:59	2025-03-17T00:09:24
kcgaoсmetS2.a1	D241031.5	Missing	Connection Corrosion	2024-08-15T09:53:42	2024-10-02T03:24:00
kcgaoсmetS2.a1	D241031.6	Incorrect	Wind Direction Incorrect	2024-10-07T15:11:00	2024-10-22T13:46:59

ARM Data Object Identifier (DOI) Table

Instrument	DOI
AERI	Gero, J., Garcia, R., Hackel, D., Ermold, B., & Gaustad, K. Atmospheric Emitted Radiance Interferometer (AERICH1), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1989299
CEIL	Zhang, D., Morris, V., & Ermold, B. Ceilometer (CEIL10M), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1497398
ECOR	Sullivan, R., Cook, D., Shi, Y., Keeler, E., & Pal, S. Eddy Correlation Flux Measurement System (ECORSF), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1494128
IRT	Howie, J., Shi, Y., Goldberger, L., & Morris, V. Infrared Thermometer (GNDIRT), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1366509
LDIS	Zhu, Z., Wang, D., & Shi, Y. Laser Disdrometer (LD), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1973058
MAWS	Keeler, E., Kyrouac, J., & Ermold, B. Automatic Weather Station (MAWS), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1162061
MET	Kyrouac, J., Shi, Y., & Tuftedal, M. Surface Meteorological Instrumentation (MET), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1786358
MFR	Hodges, G., Sheffer, B., Herrera, C., & Ermold, B. Multifilter Radiometer (MFR7NCH10M), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1773175
MFRSR	Hodges, G., Sheffer, B., Herrera, C., & Ermold, B. Multifilter Rotating Shadowband Radiometer (MFRSR7NCH), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1429369
MPL	Muradyan, P., Cromwell, E., Koontz, A., Coulter, R., Flynn, C., Ermold, B., & OBrien, J. Micropulse Lidar (MPLPOLFS), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1320657
MWR	Cadeddu, M., & Tuftedal, M. Microwave Radiometer (MWRLOS), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1999490
MWR3C	Cadeddu, M., Gibler, G., Koontz, A., & Tuftedal, M. Microwave Radiometer, 3 Channel (MWR3C), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025248
SEBS	Sullivan, R., Keeler, E., Pal, S., & Kyrouac, J. Surface Energy Balance System (SEBS), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1984921
SIRS	Sengupta, M., Xie, Y., Jaker, S., Yang, J., Reda, I., Andreas, A., Habte, A., & Shi, Y. Solar and Infrared Radiation Station for Downwelling and Upwelling Radiation (SIRS), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1475460
SONDE	Keeler, E., Burk, K., & Kyrouac, J. Balloon-Borne Sounding System (SONDEWNPN), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1595321
VDIS	Zhu, Z., & Wang, D. Video Disdrometer (VDIS), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1992988
WB	Zhu, Z., Wang, D., Jane, M., Cromwell, E., Sturm, M., Irving, K., & Delamere, J. Weighing Bucket Precipitation Gauge (WBPLUVIO2), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook/Cape Grim, Tasmania, Australia; AMF2 (main site for CAPE-k) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1338194

ARM Data Object Identifier (DOI) Table

Instrument	DOI
APS	Singh, A., Oliveira, D., Koontz, A., Sedlacek, A., & Kuang, C. Aerodynamic Particle Sizer (AOSAPS), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook / Cape Grim, Tasmania, Australia; Supplementary Facility 3 (S3). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1407135
SP2	Jackson, R., Sedlacek, A., Salwen, C., & Hayes, C. Single Particle Soot Photometer (AOSSP2BC60S), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook / Cape Grim, Tasmania, Australia; Supplementary Facility 3 (S3). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1807910
UHSAS	Uin, J., Senum, G., Koontz, A., Flynn, C., Salwen, C., & Hayes, C. Ultra-High Sensitivity Aerosol Spectrometer (AOSUHSAS), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook / Cape Grim, Tasmania, Australia; Supplementary Facility 3 (S3). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1409033
AOSMET	Kyrouac, J., & Tuftedal, M. Meteorological Measurements associated with the Aerosol Observing System (AOSMET), 2024-04-15 to 2025-10-15, ARM Mobile Facility (KCG), kennaook / Cape Grim, Tasmania, Australia; Supplementary Facility 2 (S2). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1984920