



ARM Data Quality Report (DQR) Table

| Datastream | DQR | Quality | Subject | Start Date | End Date |
|---------------------|------------|-----------|--|---------------------|---------------------|
| kcgaerisummaryM1.b1 | D241111.1 | Missing | Software Locked Up - No Data Collected | 2024-09-27T17:15:49 | 2024-09-29T00:03:12 |
| kcgaerisummaryM1.b1 | D240829.2 | Missing | Mirror Controller Locked Up | 2024-08-28T15:10:56 | 2024-08-29T20:12:08 |
| kcgaerisummaryM1.b1 | D240520.4 | Suspect | Scene Mirror Motor Fault | 2024-04-08T21:00:00 | 2024-04-22T02:55:00 |
| kcgaerisummaryM1.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 | 2024-08-10T08:12:07 | 2024-08-12T06:17:40 |
| kcgldM1.b1 | D240905.2 | Incorrect | Incorrect Data | 2024-09-04T00:00:00 | 2024-09-04T01:30:00 |
| kcgmaawsM1.b1 | D240528.2 | Missing | Missing Data due to Comms Issue | 2024-05-23T13:51:07 | 2024-05-28T13:55:04 |
| kcgmaawsM1.b1 | D240524.2 | Suspect | Temperature Data Questionable | 2024-03-23T00:00:00 | 2024-04-17T04:00:00 |
| 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 | 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 |
| 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 |
| kcgmfrsr7nchM1.b1 | D240923.4 | Incorrect | Reprocessing Request | 2024-08-09T00:00:00 | 3001-01-01 00:00:00 |
| kcgmplpolsM1.b1 | D240628.4 | Missing | No Data | 2024-05-22T16:59:55 | 2024-05-24T00:52:54 |
| kcgmwrlosM1.b1 | D240607.3 | Missing | Missing Data | 2024-06-01T23:15:01 | 2024-06-03T01:35:32 |
| kcgmwrlosM1.b1 | D240918.2 | Missing | Missing Data | 2024-08-30T17:28:46 | 2024-09-02T00:09:44 |
| kcgmwrlosM1.b1 | D240520.6 | Missing | No Data | 2024-04-27T15:58:01 | 2024-04-28T22:57:04 |
| kcgmwr3cM1.b1 | D240820.1 | Missing | Missing Data | 2024-07-02T04:00:00 | 2024-07-03T03:13:44 |
| kcgmwr3cM1.b1 | D240621.6 | Incorrect | Excessive Rain Contamination | 2024-04-15T00:00:00 | 2024-05-17T00:00:00 |
| kcg1290rwpwindconM1 | D241206.4 | Missing | Missing Winds Data | 2024-09-11T20:15:06 | 2024-10-01T23:00:17 |
| kcsirsM1.b1 | D240621.2 | Incorrect | Incorrect Data | 2024-02-13T00:00:00 | 2024-03-01T00:54:00 |
| kcsirsM1.b1 | D240822.1 | Incorrect | Questionable Data | 2024-07-26T13:27:11 | 2024-08-20T02:08:32 |
| kcsirsM1.b1 | D240726.2 | Incorrect | Incorrect Data | 2024-05-10T22:32:52 | 2024-07-17T02:10:00 |
| kcgsondownpnM1.b1 | D240516.1 | Missing | Missing Data | 2024-04-24T00:00:00 | 2024-04-24T23:59:59 |
| kcgsondownpnM1.b1 | D241004.4 | Incorrect | Failed Launch | 2024-08-31T11:30:00 | 2024-08-31T13:30:00 |

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| Datastream | DQR | Quality | Subject | Start Date | End Date |
|--------------------|-----------|-----------|--------------------------|---------------------|---------------------|
| kcgvdisM1.b1 | D240627.1 | Missing | Missing Data | 2024-05-23T00:00:00 | 2024-05-23T23:59:59 |
| kcgvdisM1.b1 | D240919.1 | Missing | No Data | 2024-09-12T00:00:00 | 2024-09-15T23:59:59 |
| kcgvdisM1.b1 | D241103.2 | Missing | Missing Data | 2024-10-18T00:00:00 | 2024-10-19T23:59:59 |
| kcgbpluvio2M1.a1 | D241126.5 | Incorrect | Questionable Data | 2024-11-26T03:00:00 | 2024-11-26T04:30:00 |
| kcgaosp2bc60sS3.b1 | D240906.2 | Missing | Data Missing | 2024-04-15T01:18:00 | 2024-04-17T05:03:28 |
| kcgaosmetS2.a1 | D240910.1 | Suspect | Precipitation Data High | 2024-08-06T00:00:00 | 2024-08-06T23:59:59 |
| kcgaosmetS2.a1 | D240805.2 | Suspect | High Precipitation Data | 2024-06-29T00:00:00 | 2024-06-29T23:59:59 |
| kcgaosmetS2.a1 | D240725.1 | Missing | Missing Data | 2024-07-20T22:06:03 | 2024-07-24T21:04:59 |
| kcgaosmetS2.a1 | D241031.2 | Missing | Software Problem | 2024-10-14T23:20:09 | 2024-10-16T00:54:22 |
| kcgaosmetS2.a1 | D241031.5 | Missing | Connection Corrosion | 2024-08-15T09:53:42 | 2024-10-02T03:24:00 |
| kcgaosmetS2.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), 2024-02-21 to 2025-06-14, 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), 2024-02-21 to 2025-06-14, 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 |
| DL | Newsom, R., Shi, Y., & Krishnamurthy, R. Doppler Lidar (DLFPT), 2024-02-21 to 2025-06-14, 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/10.5439/1025185 |
| ECOR | Sullivan, R., Cook, D., Shi, Y., Keeler, E., & Pal, S. Eddy Correlation Flux Measurement System (ECORSF), 2024-02-21 to 2025-06-14, 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 | Shi, Y., Howie, J., Goldberger, L., & Morris, V. Infrared Thermometer (GNDIRT), 2024-02-21 to 2025-06-14, 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), 2024-02-21 to 2025-06-14, 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., Kyrrouac, J., & Ermold, B. Automatic Weather Station (MAWS), 2024-02-21 to 2025-06-14, 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 | Kyrrouac, J., Shi, Y., & Tuftedal, M. Surface Meteorological Instrumentation (MET), 2024-02-21 to 2025-06-14, 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., Herrera, C., & Ermold, B. Multifilter Radiometer (MFR7NCH10M), 2024-02-21 to 2025-06-14, 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., Herrera, C., & Ermold, B. Multifilter Rotating Shadowband Radiometer (MFRSR7NCH), 2024-02-21 to 2025-06-14, 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), 2024-02-21 to 2025-06-14, 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), 2024-02-21 to 2025-06-14, 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), 2024-02-21 to 2025-06-14, 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 |
| RWP | Muradyan, P. Radar Wind Profiler (1290RWPPRECIPCON), 2024-02-21 to 2025-06-14, 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/10.5439/1972920 |
| SEBS | Sullivan, R., Keeler, E., Pal, S., & Kyrrouac, J. Surface Energy Balance System (SEBS), 2024-02-21 to 2025-06-14, 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 | Shi, Y., Sengupta, M., Xie, Y., Jaker, S., Yang, J., Reda, I., Andreas, A., & Habte, A. Solar and Infrared Radiation Station for Downwelling and Upwelling Radiation (SIRS), 2024-02-21 to 2025-06-14, 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., & Kyrrouac, J. Balloon-Borne Sounding System (SONDEWNP), 2024-02-21 to 2025-06-14, 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 |

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| Instrument | DOI |
|------------|--|
| VDIS | Zhu, Z., & Wang, D. Video Disdrometer (VDIS), 2024-02-21 to 2025-06-14, 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 | Wang, D., Jané, M., Cromwell, E., Sturm, M., Irving, K., Delamere, J., & Mockaitis, M. Weighing Bucket Precipitation Gauge (WBPLUVIO2), 2024-02-21 to 2025-06-14, 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 |
| APS | Singh, A., Oliveira, D., Koontz, A., Sedlacek, A., & Kuang, C. Aerodynamic Particle Sizer (AOSAPS), 2024-02-21 to 2025-06-14, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). 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), 2024-02-21 to 2025-06-14, 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), 2024-02-21 to 2025-06-14, 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), 2024-02-21 to 2025-06-14, 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 |