

HU-25A Guardian - LaRC #524 03/28/22

NOTE: All flight reports will be archived as NASA public data in the DAAC.

Aircraft: [HU-25A Guardian - LaRC #524](#) (See full schedule)

Flight Number: ACTIVATE 5/6 Flight #RF146

Payload Configuration: ACTIVATE In Situ Suite

Nav Data Collected: No

Total Flight Time: 3.6 hours

Submitted by: Gregory L. Slover on 03/28/22

Flight Segments:

| | | | |
|---------------------------|---|----------------|------------------|
| From: | KLFI | To: | KLFI |
| Start: | 03/28/22 16:45 Z | Finish: | 03/28/22 20:20 Z |
| Flight Time: | 3.6 hours | | |
| Log Number: | 22F001 | PI: | Armin Sorooshian |
| Funding Source: | Hal Maring - NASA - SMD - ESD Radiation Science Program | | |
| Purpose of Flight: | Science | | |
| Miles Flown: | 725 miles | | |
| Comments: | Flight plan adjusted in morning to be KLFI ATLIC ZIBUT SKPPR OXANA ECG KLFI and flown as planned. High winds westerly winds required a 3-min reverse heading orbit just inside OXANA to help UC-12 get to within coincidence again. One low approach at KLFI used for aerosol sampling in the traffic pattern. Good cloudy module statistical sampling from ATLIC to OXANA with clouds as high as 8000' and as low as 3000'. Clear air module flown for most of OXANA - ECG - KLFI. | | |

Flight Hour Summary:

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|---------------------------------------|---------------|
| | 22F001 |
| Flight Hours Approved in SOFRS | 290 |
| Total Used | 298.8 |
| Total Remaining | -8.8 |

22F001 Flight Reports

| Date | Flt # | Purpose of Flight | Duration | Running Total | Hours Remaining | Miles Flown |
|--------------------------|-------------------------------------|-------------------|----------|---------------|-----------------|-------------|
| 11/19/21 | ACTIVATE 5/6 ICF | Check | 2.1 | 2.1 | 287.9 | 450 |
| 11/30/21 | ACTIVATE 5/6 Flight #1 | Science | 3.3 | 5.4 | 284.6 | 710 |
| 12/01/21 | ACTIVATE 5/6 Flight #2 | Science | 3.5 | 8.9 | 281.1 | 730 |
| 12/07/21 | ACTIVATE 5/6 Flight #3 | Science | 3.5 | 12.4 | 277.6 | 712 |
| 12/09/21 | ACTIVATE 5/6 Flight #4&5 | Science | 3.2 | 15.6 | 274.4 | 700 |
| 12/09/21 | ACTIVATE 5/6 Flight #4&5 | Science | 3.3 | 18.9 | 271.1 | 700 |
| 12/10/21 | ACTIVATE 5/6 Flight #6 | Science | 3.3 | 22.2 | 267.8 | 682 |
| 12/14/21 | ACTIVATE 5/6 Flight #7 | Science | 2.5 | 24.7 | 265.3 | 0 |
| 01/11/22 | ACTIVATE 5/6 Flight #RF100 & #RF101 | Science | 3.4 | 28.1 | 261.9 | 705 |
| 01/11/22 | ACTIVATE 5/6 Flight #RF100 & #RF101 | Science | 3.3 | 31.4 | 258.6 | 710 |
| 01/12/22 | ACTIVATE 5/6 Flight #RF102 & #RF103 | Science | 3.3 | 34.7 | 255.3 | 710 |
| 01/12/22 | ACTIVATE 5/6 Flight #RF102 & #RF103 | Science | 3.3 | 38 | 252 | 735 |
| 01/15/22 | ACTIVATE 5/6 Flight #RF104 | Science | 3.8 | 41.8 | 248.2 | 740 |

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| 01/18/22 | ACTIVATE 5/6 Flight #RF105 & RF106 | Science | 3.3 | 45.1 | 244.9 | 715 |
| 01/18/22 | ACTIVATE 5/6 Flight #RF105 & RF106 | Science | 3.5 | 48.6 | 241.4 | 725 |
| 01/19/22 | ACTIVATE 5/6 Flight #RF107 & RF108 | Science | 3.3 | 51.9 | 238.1 | 715 |
| 01/19/22 | ACTIVATE 5/6 Flight #RF107 & RF108 | Science | 3.3 | 55.2 | 234.8 | 707 |
| 01/24/22 | ACTIVATE 5/6 Flight #RF109 & RF110 | Science | 3.2 | 58.4 | 231.6 | 715 |
| 01/24/22 | ACTIVATE 5/6 Flight #RF109 & RF110 | Science | 3.2 | 61.6 | 228.4 | 715 |
| 01/26/22 | ACTIVATE 5/6 Flight #RF111 & RF112 | Science | 3.6 | 65.2 | 224.8 | 735 |
| 01/26/22 | ACTIVATE 5/6 Flight #RF111 & RF112 | Science | 3.3 | 68.5 | 221.5 | 705 |
| 01/27/22 | ACTIVATE 5/6 Flight #RF113 & RF114 | Science | 3 | 71.5 | 218.5 | 710 |
| 01/27/22 | ACTIVATE 5/6 Flight #RF113 & RF114 | Science | 3.3 | 74.8 | 215.2 | 710 |
| 02/01/22 | ACTIVATE 5/6 Flight #RF115 | Science | 3.1 | 77.9 | 212.1 | 682 |
| 02/02/22 | ACTIVATE 5/6 Flight #RF116 | Science | 3.5 | 81.4 | 208.6 | 750 |
| 02/03/22 | ACTIVATE 5/6 Flight #RF117 | Science | 3.2 | 84.6 | 205.4 | 713 |
| 02/03/22 | ACTIVATE 5/6 Flight #RF118 | Science | 3.5 | 88.1 | 201.9 | 704 |
| 02/05/22 | ACTIVATE 5/6 Flight #RF119 | Science | 3.4 | 91.5 | 198.5 | 700 |
| 02/15/22 | ACTIVATE 5/6 Flight #RF120 & 121 | Science | 3.3 | 94.8 | 195.2 | 708 |
| 02/15/22 | ACTIVATE 5/6 Flight #RF120 & 121 | Science | 4 | 98.8 | 191.2 | 808 |
| 02/16/22 | ACTIVATE 5/6 Flight #RF123 | Science | 3.6 | 102.4 | 187.6 | 782 |
| 02/16/22 | ACTIVATE 5/6 Flight #RF123 | Science | 3.2 | 105.6 | 184.4 | 0 |
| 02/19/22 | ACTIVATE 5/6 Flight #RF124&125 | Science | 3.4 | 109 | 181 | 700 |
| 02/19/22 | ACTIVATE 5/6 Flight #RF124&125 | Science | 3.6 | 112.6 | 177.4 | 650 |
| 02/22/22 | ACTIVATE 5/6 Flight #RF126 | Science | 3.5 | 116.1 | 173.9 | 712 |
| 02/22/22 | ACTIVATE 5/6 Flight #RF127 | Science | 3.4 | 119.5 | 170.5 | 715 |
| 02/26/22 | ACTIVATE 5/6 Flight #RF128/129 | Science | 3 | 122.5 | 167.5 | 700 |
| 02/26/22 | ACTIVATE 5/6 Flight #RF128/129 | Science | 2.7 | 125.2 | 164.8 | 700 |
| 03/02/22 | ACTIVATE 5/6 Flight #RF130 | Science | 3.5 | 128.7 | 161.3 | 750 |
| 03/03/22 | ACTIVATE 5/6 Flight #RF131 & 132 | Science | 3.5 | 132.2 | 157.8 | 711 |
| 03/03/22 | ACTIVATE 5/6 Flight #RF131 & 132 | Science | 3.3 | 135.5 | 154.5 | 705 |
| 03/04/22 | ACTIVATE 5/6 Flight #RF133 | Science | 3.5 | 139 | 151 | 710 |

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| 03/04/22 | ACTIVATE 5/6 Flight #RF134 | Science | 3.5 | 142.5 | 147.5 | 730 |
| 03/07/22 | ACTIVATE 5/6 Flight #RF135 | Science | 3.5 | 146 | 144 | 718 |
| 03/07/22 | ACTIVATE 5/6 Flight #RF136 | Science | 3.4 | 149.4 | 140.6 | 815 |
| 03/13/22 | ACTIVATE 5/6 Flight #RF137 & 138 | Science | 3.8 | 153.2 | 136.8 | 650 |
| 03/13/22 | ACTIVATE 5/6 Flight #RF137 & 138 | Science | 3.2 | 156.4 | 133.6 | 738 |
| 03/14/22 | ACTIVATE 5/6 Flight #RF139 & 140 | Science | 3.2 | 159.6 | 130.4 | 714 |
| 03/14/22 | ACTIVATE 5/6 Flight #RF139 & 140 | Science | 3.4 | 163 | 127 | 0 |
| 03/18/22 | ACTIVATE 5/6 Flight #RF141 | Science | 3.3 | 166.3 | 123.7 | 680 |
| 03/22/22 | ACTIVATE 5/6 Flight #RF142 & 143 | Science | 2.8 | 169.1 | 120.9 | 660 |
| 03/22/22 | ACTIVATE 5/6 Flight #RF142 & 143 | Science | 3.7 | 172.8 | 117.2 | 660 |
| 03/26/22 | ACTIVATE 5/6 Flight #RF144 & RF145 | Science | 3.7 | 176.5 | 113.5 | 700 |
| 03/26/22 | ACTIVATE 5/6 Flight #RF144 & RF145 | Science | 4 | 180.5 | 109.5 | 800 |
| 03/28/22 | ACTIVATE 5/6 Flight #RF146 | Science | 3.6 | 184.1 | 105.9 | 725 |
| 03/29/22 | ACTIVATE 5/6 Flight #RF147 & RF148 | Science | 3.9 | 188 | 102 | 720 |
| 03/29/22 | ACTIVATE 5/6 Flight #RF147 & RF148 | Science | 3.9 | 191.9 | 98.1 | 647 |
| 05/05/22 | ACTIVATE 5/6 Flight #RF150 & RF151 | Science | 3.4 | 195.3 | 94.7 | 720 |
| 05/05/22 | ACTIVATE 5/6 Flight #RF150 & RF151 | Science | 3.3 | 198.6 | 91.4 | 710 |
| 05/10/22 | ACTIVATE 5/6 Flight #RF152 | Science | 3.4 | 202 | 88 | 712 |
| 05/16/22 | ACTIVATE 5/6 Flight #RF153 & 154 | Science | 3.3 | 205.3 | 84.7 | 680 |
| 05/16/22 | ACTIVATE 5/6 Flight #RF153 & 154 | Science | 3.3 | 208.6 | 81.4 | 700 |
| 05/17/22 | ACTIVATE 5/6 Flight #RF155 | Science | 3.3 | 211.9 | 78.1 | 0 |
| 05/18/22 | ACTIVATE 5/6 Flight #RF156 & 157 | Science | 3.1 | 215 | 75 | 670 |
| 05/18/22 | ACTIVATE 5/6 Flight #RF156 & 157 | Science | 3.6 | 218.6 | 71.4 | 670 |
| 05/20/22 | ACTIVATE 5/6 Flight #RF158 | Science | 3.5 | 222.1 | 67.9 | 703 |
| 05/21/22 | ACTIVATE 5/6 Flight #RF159 & 160 | Science | 3 | 225.1 | 64.9 | 0 |
| 05/21/22 | ACTIVATE 5/6 Flight #RF159 & 160 | Science | 3.2 | 228.3 | 61.7 | 0 |
| 05/31/22 | ACTIVATE 5/6 Flight #RF161 | Science | 3.4 | 231.7 | 58.3 | 680 |
| 06/02/22 | ACTIVATE 5/6 Flight #RF162 | Science | 3.1 | 234.8 | 55.2 | 680 |
| 06/02/22 | ACTIVATE 5/6 Flight #RF163 | Science | 3.1 | 237.9 | 52.1 | 680 |

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| 06/03/22 | ACTIVATE 5/6 Flight #RF164 | Science | 3.3 | 241.2 | 48.8 | 650 |
| 06/05/22 | ACTIVATE 5/6 Flight #RF165 | Science | 3.2 | 244.4 | 45.6 | 640 |
| 06/07/22 | ACTIVATE 5/6 Flight #RF166 & 167 | Science | 3.4 | 247.8 | 42.2 | 700 |
| 06/07/22 | ACTIVATE 5/6 Flight #RF166 & 167 | Science | 3.3 | 251.1 | 38.9 | 700 |
| 06/08/22 | ACTIVATE 5/6 Flight #RF168 & 169 | Science | 3 | 254.1 | 35.9 | 700 |
| 06/08/22 | ACTIVATE 5/6 Flight #RF168 & 169 | Science | 3.4 | 257.5 | 32.5 | 700 |
| 06/10/22 | ACTIVATE 5/6 Flight #RF170 & 171 | Science | 3.4 | 260.9 | 29.1 | 700 |
| 06/10/22 | ACTIVATE 5/6 Flight #RF170 & 171 | Science | 3.5 | 264.4 | 25.6 | 700 |
| 06/10/22 | ACTIVATE 5/6 Flight #RF170 & 171 | Science | 3.4 | 267.8 | 22.2 | 700 |
| 06/10/22 | ACTIVATE 5/6 Flight #RF170 & 171 | Science | 3.5 | 271.3 | 18.7 | 700 |
| 06/11/22 | ACTIVATE 5/6 Flight #RF172 & 173 | Science | 3.6 | 274.9 | 15.1 | 700 |
| 06/11/22 | ACTIVATE 5/6 Flight #RF172 & 173 | Science | 3.4 | 278.3 | 11.7 | 700 |
| 06/13/22 | ACTIVATE 5/6 Flight #RF174 & 175 | Science | 3.3 | 281.6 | 8.4 | 680 |
| 06/13/22 | ACTIVATE 5/6 Flight #RF174 & 175 | Science | 3.6 | 285.2 | 4.8 | 680 |
| 06/14/22 | ACTIVATE 5/6 Flight #RF176 | Science | 3.3 | 288.5 | 1.5 | 710 |
| 06/14/22 | ACTIVATE 5/6 Flight #RF176 | Science | 3.3 | 291.8 | -1.8 | 710 |
| 06/17/22 | ACTIVATE 5/6 Flight #RF177 | Science | 3.6 | 295.4 | -5.4 | 650 |
| 06/18/22 | ACTIVATE 5/6 Flight #RF178 | Science | 3.4 | 298.8 | -8.8 | 650 |

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

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