

HU-25A Guardian - LaRC #524 02/19/22

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 #RF124&125

Payload Configuration: ACTIVATE In Situ Suite

Nav Data Collected: No

Total Flight Time: 7 hours

Submitted by: Gregory L. Slover on 02/19/22

Flight Segments:

| | | | |
|--------------------|--|---------|------------------|
| From: | KLFI | To: | KLFI |
| Start: | 02/19/22 13:49 Z | Finish: | 02/19/22 17:10 Z |
| Flight Time: | 3.4 hours | | |
| Log Number: | 22F001 | PI: | Armin Sorooshian |
| Funding Source: | Hal Maring - NASA - SMD - ESD Radiation Science Program | | |
| Purpose of Flight: | Science | | |
| Miles Flown: | 700 miles | | |
| Comments: | ACTIVATE statistical survey within AR-8 W-110 corridor. Chose to delay in W-110 due to front just on other side of OXANA. Cloud altitudes were varying from 2000' to 9000' MSL. Slight takeoff delay while troubleshooting two aircraft systems. | | |

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|--------------------|---|---------|------------------|
| From: | KLFI | To: | KLFI |
| Start: | 02/19/22 18:30 Z | Finish: | 02/19/22 22:05 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: | 650 miles | | |
| Comments: | ACTIVATE statistical survey flight. Planned for ZIBUT - DARUX line, but ANTARES rocket launch (which had already occurred) hadn't released their exclusive use NOTAMS preventing the track. 20-min delay while coordinating release of the NOTAMS and ability to transit AR-9. A different ALTRV NOTAM which was not present in AM was now present preventing flight past ZIBUT. Alternative route selected through W-72 just inside the Eastern boundary. Good weather found at the end of the track with clouds between 2000 and 9000' MSL. | | |

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 |

DO NOT CITE

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|--------------------------|-------------------------------------|---------|-----|-------|-------|-----|
| 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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.

Page Editor: Brad Bulger

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