

DC-8 - AFRC 09/03/19

Aircraft: [DC-8 - AFRC](#) (See full schedule)

Flight Number: 1354

Payload Configuration: FIREX-AQ 2019 Configuration

Nav Data Collected: Yes

Total Flight Time: 7.7 hours

Submitted by: Chris Jennison on 09/04/19

Flight Segments:

From:	KSLN	To:	KSLN
Start:	09/03/19 15:57 Z	Finish:	09/03/19 23:42 Z
Flight Time:	7.7 hours		
Log Number:	198002	PI:	Barry Lefer
Funding Source:	Barry Lefer - NASA - SMD - ESD Tropospheric Composition Program		
Purpose of Flight:	Science		
Comments:	<p>" 2 Dial Remote Sensing Runs at the beginning day and at the end, o Started in Louisiana up through the Mississippi River Valley and ended in Southern Illinois just outside of Shawnee National o Altitude at 25KFT - Sampled approximately 20 fires (19 named but Letter J was a dual). Three new areas not sampled on previous missions. o Southern Illinois - New o Eastern Missouri - New o Arkansas - New o Mississippi o Louisiana - About half of the fires sampled had 2 passes but the majority of the files were small - There was an instrument issue with the LARGE instrument which prevented the dilution of the samples to aide in the collection. So they were limited in how long they could be in the smoke due to the saturation. It worked out however due to the fire sizes we saw. Overall Science was very happy with the data collected and it was truly a bonus flight which they could use to supplement the data already collected. The primary objective was the two remote sensing runs, one at the beginning and one at the end, to get a comparison of how it transports during the day. Those were met and were not impacted by the low flight portions. Spent approximately 3.5 hours down low fire searching and 3 hours high for the DIAL runs."</p>		

Flight Hour Summary:

	198002
Flight Hours Approved in SOFRS	150
Total Used	158.1
Total Remaining	-8.1

198002 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
07/09/19 - 07/10/19	1325	Check	3	3	147	1020
07/15/19 - 07/16/19	1327	Check	3.5	6.5	143.5	1505
07/22/19 - 07/23/19	1333	Science	6.8	13.3	136.7	2924
07/24/19 - 07/25/19	1334	Science	3.4	16.7	133.3	1462
07/25/19 - 07/26/19	1335	Science	6.1	22.8	127.2	2623
07/29/19 - 07/30/19	1336	Science	6.9	29.7	120.3	2967
07/30/19 - 07/31/19	1337	Science	7.2	36.9	113.1	3096
08/02/19 - 08/03/19	1338	Science	6.1	43	107	2752

08/03/19 - 08/04/19	1339	Science	6.8	49.8	100.2	2924
08/06/19 - 08/07/19	1340	Science	7.5	57.3	92.7	3225
08/07/19 - 08/08/19	1341	Science	6.7	64	86	2881
08/08/19 - 08/09/19	1342	Science	6.4	70.4	79.6	2752
08/12/19 - 08/13/19	1343	Science	7.8	78.2	71.8	3354
08/13/19 - 08/14/19	1344	Science	7.6	85.8	64.2	3268
08/15/19 - 08/16/19	1345	Science	6.5	92.3	57.7	2795
08/16/19 - 08/17/19	1346	Science	7.5	99.8	50.2	3225
08/19/19	1347	Transit	2.2	102	48	946
08/21/19	1348	Science	6.5	108.5	41.5	2580
08/23/19	1349	Science	6.9	115.4	34.6	2967
08/26/19 - 08/27/19	1350	Science	8.1	123.5	26.5	3483
08/29/19	1351	Science	5.3	128.8	21.2	2279
08/30/19	1352	Science	8.8	137.6	12.4	3784
08/31/19 - 09/01/19	1353	Science	7.2	144.8	5.2	3096
09/03/19	1354	Science	7.7	152.5	-2.5	0
09/05/19	1355	Transit	5.6	158.1	-8.1	0

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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