

B200 (#801) - AFRC 05/10/21 - 05/11/21

Aircraft: [B200 \(#801\) - AFRC](#) ([See full schedule](#))

Flight Number: 3215

Payload Configuration: S-MODE

Nav Data Collected: Yes

Total Flight Time: 3.7 hours

Submitted by: John T. McGrath on 05/11/21

Flight Segments:

From:	KEDW	To:	KEDW
Start:	05/10/21 20:20 Z	Finish:	05/11/21 00:05 Z
Flight Time:	3.7 hours		
Log Number:	21B002	PI:	John Farrar
Funding Source:	Barry Lefer - NASA - SMD - ESD Earth Venture Suborbital-3 Program		
Purpose of Flight:	Science		
Comments:	Good flight, all science collected		

Flight Hour Summary:

	21B002
Flight Hours Approved in SOFRS	25
Total Used	25
Total Remaining	0

21B002 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
05/03/21	3209	Science	1.1	1.1	23.9	0
05/03/21 - 05/04/21	3210	Science	5.1	6.2	18.8	0
05/04/21	3211	Transit	0.7	6.9	18.1	0
05/05/21	3212	Science	1.8	8.7	16.3	0
05/07/21 - 05/08/21	3213	Science	5.3	14	11	0
05/08/21	3214	Transit	0.5	14.5	10.5	0
05/10/21 - 05/11/21	3215	Science	3.7	18.2	6.8	0
05/18/21 - 05/19/21	3216	Science	3.7	21.9	3.1	0
05/19/21	3217	Science	3.1	25	-0	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.

Related Science Report:

S-MODE - B200 (#801) - AFRC 05/10/21 Science Report

Mission: S-MODE

Mission Summary:

The initial plan was to collect airborne data over the ONR TFO site. However, the region was covered by a heavy marine layer and observations at the R/V Revelle showed that operations below the cloud deck were unlikely due to a solid cloud deck. In the meantime, the situation over the Catalina Island site had improved significantly over the morning and at 11 am it was decided to attempt to collect data over the WHOI wave glider between Catalina and San Clemente Islands. AFRC and the TOI team rose to the challenge of the sudden

change and procured airspace, including operations in a warning area. Data collections started at around 2 pm and continued to before 4 pm, when the cloud deck dropped, as did the wind speed, and the aircraft returned home. DopplerScatt collected about 2 hours of good data, while MASS collected good data for about 1 hour. Due to the cloud conditions, MOSES was unable to collect useful data. The team is evaluating the possibilities for additional data collections given the prospect of low winds and clouds for most of the week.

File:

 [S-MODE Field Experiment Report 2021-05-10.pdf](#)

Submitted by: Judy Alfter on 05/12/21

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