

B200 (#801) - AFRC 05/03/21 - 05/04/21

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

Flight Number: 3210

Payload Configuration: S-MODE

Nav Data Collected: Yes

Total Flight Time: 5.1 hours

Submitted by: John T. McGrath on 05/04/21

Flight Segments:

From:	KEDW	To:	KEDW
Start:	05/03/21 20:05 Z	Finish:	05/04/21 01:10 Z
Flight Time:	5.1 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 data collected, no issues		

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 05/03/21 Science Report

Mission: S-MODE

Mission Summary:

After being delayed by COVID-19 for a year, the S-MODE EVS-3 team had their first successful set of flights on May 3rd aboard AFRC's NASA 801 B200 aircraft. The day's activities were centered on demonstrating the joint operations between JPL's DopplerScatt (wind and current measurements), UCLA's MOSES (sea surface temperature (SST) measurements), and WHOI's ocean wave glider (currents at depth and environmental

conditions). A long (7am to 7pm) day included the georeferencing calibration of MOSES, and fast (<½ hour) sampling of a 100 km x 25 km patch of quickly varying ocean currents by the three instruments for close to 5 hours. This combination of instruments, which will be joined by UCSD Scripps' MASS instrument in a few days, represent some of the key measurements that will be made during the forthcoming S-MODE campaigns.

Images:

Aerial View Of JPL [05.03.21]



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Scott "Jelly" Howe (AFRC) and Hernan Posada (AFRC) piloting



[Read more](#)

Hernan Posada (AFRC), Delphine Hypolite (UCLA), and Alex



[Read more](#)

Alex Wineteer (JPL) and Delphine Hypolite (UCLA) in flight during



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File:

 [Field Report 2021-05-03.pdf](#)

Submitted by: Erin Czech on 05/04/21

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