

SLAP Local 2021 - B200 - LARC 02/10/21 Science Report

Aircraft: [B200 - LARC](#) (See full schedule)

Date: Wednesday, February 10, 2021

Mission: SLAP Local 2021

Mission Location: Great Dismal Swamp, NC

Mission Summary:

First of three calibration flights to verify instrument operation at an elevated internal temperature to prepare for science flights this summer.

Operated SLAP instrument with radiometer internal calibration set to 50 C.

Departed KLF1 and leveled off at 1000 AGL science altitude. Performed water calibration over Kerr Reservoir. Flew two science lines over Caledonia State Prison Farm, three over the farmland West of Murfreesboro, and four over the farmland south of the Great Dismal Swamp, which contains irrigated and non-irrigated areas in an East-West gradient.

Performed a water calibration over buoys in the Chesapeake Bay Northeast of Hampton, then returned to KLF1.

These lines were repeated in the afternoon flight at an internal calibration set temperature of 45 C.

Submitted by: Wu, Albert on 02/25/21

Related Flight Report:

B200 - LARC 02/10/21

Flight Number: SLAP Temp Cal

Payload Configuration: SLAP

Nav Data Collected: No

Total Flight Time: 5.2 hours

Submitted by: Gregory L. Slover on 02/11/21

Flight Segments:

From:	KLF1	To:	KLF1
Start:	02/10/21 14:58 Z	Finish:	02/10/21 17:34 Z
Flight Time:	2.6 hours		
Log Number:	21B009	PI:	Edward Kim
Funding Source:	Jared Entin - NASA - SMD - ESD Hydrology Program		
Purpose of Flight:	Science		
Miles Flown:	374 miles		
Comments:	This sortie consisted of the AM portion of a SLAP temperature calibration flight. Mission was flown at 1,500' MSL at about -4 to 0 C. A water cal was completed over Kerr Reservoir followed by multiple E-W lines over three different farmland targets. The sortie finished with a water calibration over the Chesapeake Bay Buoy #44072.		

From:	KLF1	To:	KLF1
Start:	02/10/21 19:29 Z	Finish:	02/10/21 22:05 Z
Flight Time:	2.6 hours		
Log Number:	21B009	PI:	Edward Kim
Funding Source:	Jared Entin - NASA - SMD - ESD Hydrology Program		
Purpose of Flight:	Science		
Miles Flown:	375 miles		
Comments:	This sortie consisted of the PM portion of a SLAP temperature calibration flight. Mission was flown at 1,500' MSL at about --2 to +1 C. A water cal was completed over Kerr Reservoir followed by multiple E-W lines over three different farmland targets. The sortie finished with a water calibration over the Chesapeake Bay Buoy #44072.		

Flight Hour Summary:

	21B009
Flight Hours Approved in SOFRS	25
Total Used	19.9
Total Remaining	5.1

21B009 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
02/04/21	SLAP ICF/EMI/EMC	Check	2.1	2.1	22.9	320
02/10/21	SLAP Temp Cal	Science	2.6	4.7	20.3	374
02/10/21	SLAP Temp Cal	Science	2.6	7.3	17.7	375
02/17/21	SLAP Temp Cal	Science	2.8	10.1	14.9	375
02/23/21	SLAP Inst Cal/Op Trng	Science	1.7	11.8	13.2	220
02/23/21	SLAP Inst Cal/Op Trng	Science	1.4	13.2	11.8	220
02/24/21	SLAP Inst Cal/Op Trng	Science	1.3	14.5	10.5	220
02/24/21	SLAP Inst Cal/Op Trng	Science	1.8	16.3	8.7	240
02/25/21	SLAP Inst Cal/Op Trng	Science	1.9	18.2	6.8	250
02/25/21	SLAP Inst Cal/Op Trng	Science	1.7	19.9	5.1	220

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.

Flight Tracks:

Attachment	Size
 20210210 SLAP Local AM Flight	635.04 KB
 20210210 SLAP Local PM Flight	495.72 KB

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NASA Official: Marilyn Vasques

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