

SLAP Local 2021 - B200 - LARC 02/25/21 Science Report

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

Date: Thursday, February 25, 2021

Mission: SLAP Local 2021

Mission Location: Great Dismal Swamp, NC

Mission Summary:

Fifth of six operator training flights to prepare for science flights this summer.

Departed KLF1 and leveled off at 1000 AGL science altitude. Proceeded to perform water calibration over Kerr Reservoir, then performed a new water calibration technique along Lake Gaston and Roanoke Rapids Lake. Performed a water calibration over Lake Drummond.

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

Second flight was sixth of six operator training flights to prepare for science flights this summer.

Departed KLF1 and leveled off at 1000 AGL science altitude. Proceeded to farmland south of the Great Dismal Swamp which contains irrigated and non-irrigated areas in an East-West gradient, and flew four science lines. Fault conditions were intentionally introduced into the instrument data system to train operator.

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

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

Related Flight Report:

B200 - LARC 02/25/21

Flight Number: SLAP Inst Cal/Op Trng

Payload Configuration: SLAP

Nav Data Collected: No

Total Flight Time: 3.6 hours

Submitted by: Glenn Jamison on 02/25/21

Flight Segments:

From:	klfi	To:	klfi
Start:	02/25/21 15:12 Z	Finish:	02/25/21 17:06 Z
Flight Time:	1.9 hours		
Log Number:	21B009	PI:	Edward Kim
Funding Source:	Jared Entin - NASA - SMD - ESD Hydrology Program		
Purpose of Flight:	Science		
Miles Flown:	250 miles		
Comments:	Instrument calibration/characterization and Operator Training sortie, first of two sorties conducted on 25 Feb 21. QNC: Izadkhah. Water calibration at Kerr reservoir; transects aligned with Roanoke river and antenna locked at 000-deg relative azimuth; water calibration at Lake Drummond; buoy/water calibration at York river, northeast of KLF1.		
From:	klfi	To:	klfi
Start:	02/25/21 19:00 Z	Finish:	02/25/21 20:45 Z
Flight Time:	1.7 hours		
Log Number:	21B009 - Completed as of this flight.	PI:	Edward Kim
Funding Source:	Jared Entin - NASA - SMD - ESD Hydrology Program		
Purpose of Flight:	Science		
Miles Flown:	220 miles		

Comments:

Instrument calibration/characterization and Operator Training sortie, second of two sorties conducted on 25 Feb 21. QNC: Izadkhah. Airborne instrument shutdown and startup; east-west transects south of Lake Drummond with varying values of lateral separation; buoy/water calibration at York river, northeast of KLF1.

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
 20210225 SLAP Local AM Flight	439.93 KB
 20210225 SLAP Local PM Flight	337.4 KB

Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

NASA Official: Marilyn Vasques

Source URL: https://espo.nasa.gov/science_reports/SLAP_Local_2021_-_B200_-_LARC_02_25_21_Science_Report