

## B200 - LARC 02/10/21

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

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:

<b>From:</b>	KLFI	<b>To:</b>	KLFI
<b>Start:</b>	02/10/21 14:58 Z	<b>Finish:</b>	02/10/21 17:34 Z
<b>Flight Time:</b>	2.6 hours		
<b>Log Number:</b>	<a href="#">21B009</a>	<b>PI:</b>	Edward Kim
<b>Funding Source:</b>	Jared Entin - NASA - SMD - ESD Hydrology Program		
<b>Purpose of Flight:</b>	Science		
<b>Miles Flown:</b>	374 miles		
<b>Comments:</b>	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.		

<b>From:</b>	KLFI	<b>To:</b>	KLFI
<b>Start:</b>	02/10/21 19:29 Z	<b>Finish:</b>	02/10/21 22:05 Z
<b>Flight Time:</b>	2.6 hours		
<b>Log Number:</b>	<a href="#">21B009</a>	<b>PI:</b>	Edward Kim
<b>Funding Source:</b>	Jared Entin - NASA - SMD - ESD Hydrology Program		
<b>Purpose of Flight:</b>	Science		
<b>Miles Flown:</b>	375 miles		
<b>Comments:</b>	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:

	<b>21B009</b>
<b>Flight Hours Approved in SOFRS</b>	25
<b>Total Used</b>	19.9
<b>Total Remaining</b>	5.1

### 21B009 Flight Reports

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

<a href="#">02/25/21</a>	SLAP Inst Cal/Op Trng	Science	1.9	18.2	6.8	250
<a href="#">02/25/21</a>	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.*

**Related Science Report:**

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

**Mission:** SLAP Local 2021

**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

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