Jennifer Laverentz, 2335 Irving Hill Road, Lawrence, KS 66045,

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL	WL9XXJ
(Nature of Service)	(Call Sign)
XT MO	1145-EX-ST-2017
(Class of Station)	(File Number)

NAME Center for Remote Sensing of Ice Sheets

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:
The primary objectives of the project are to perform radar measurements.

Station Locations
(1) MOBILE: Lake Michigan, WI, within 77 km, centered around NL 44-50-00; WL 87-00-45
(2) MOBILE: Appleton, WI, within 37 km, centered around NL 43-40-00; WL 88-25-00

Frequency Information

MOBILE: Lake Michigan, WI, within 77 km, centered around NL 44-50-00; WL 87-00-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
174-224 MHz	MO	50M0MXN	63 W (ERP)	

This authorization effective October 17, 2017 and
will expire 3:00 A.M. EST November 16, 2017

FEDERAL COMMUNICATIONS COMMISSION

Frequency Information

MOBILE: Appleton, WI, within 37 km, centered around NL 43-40-00; WL 88-25-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
174-224 MHz	MO	50M0MXN	63 W (ERP)	

Special Conditions:

(1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.

(2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.

(3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

(4) Operation is subject to notification of the following within 60 miles of the test area:
- 218-219 MHz Service licensees
- 220 MHz Service licensees
- 220-222 MHz Service licensees

(5) Licensee is authorized to operate 174-224 MHz band. Licensee must operate in accordance with the written consents reached between Licensee and Orbcomm, Digitalglobe, and Planet Labs, Inc.

(6) Stop buzzers point of contact: Jennifer Laverentz at 785-864-7722.

(7) Licensee must take all necessary measures to ensure that the operation authorized does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers. The licensee shall ensure installation of terminals on aircraft by qualified installers who have an understanding of the antenna's radiation environment and the measures best suited to maximize protection of the general public and persons operating the aircraft and equipment. A terminal exhibiting radiation exposure levels exceeding 1.0 mW/cm2 in accessible areas, such as at the exterior surface of the radome, shall have a label attached to the surface of the terminal warning about the radiation hazard and shall include thereon a diagram showing the regions around the terminal where the radiation levels could exceed 1.0 mW/cm2.

(8) Experimental station must not be used to provide air traffic control communication.

Special Conditions:

(9) The Center for Remote Sensing of Ice Sheets may operate in the 174 – 224 MHz band only and must maintain all emissions within the given band. The original request of 150 – 450 MHz could not be supported by NTIA due to extremely heavy usage in the 150 – 174 MHz and 225 – 400 MHz bands.