National Aeronautics and Space Administration

NASA earth

Commercial SmallSat Data Acquisition (CSDA) Program Webinar Series – Vendor Focus – Planet Labs

Dana Ostrenga
CSDA Project Manager
NASA Goddard Space Flight Center

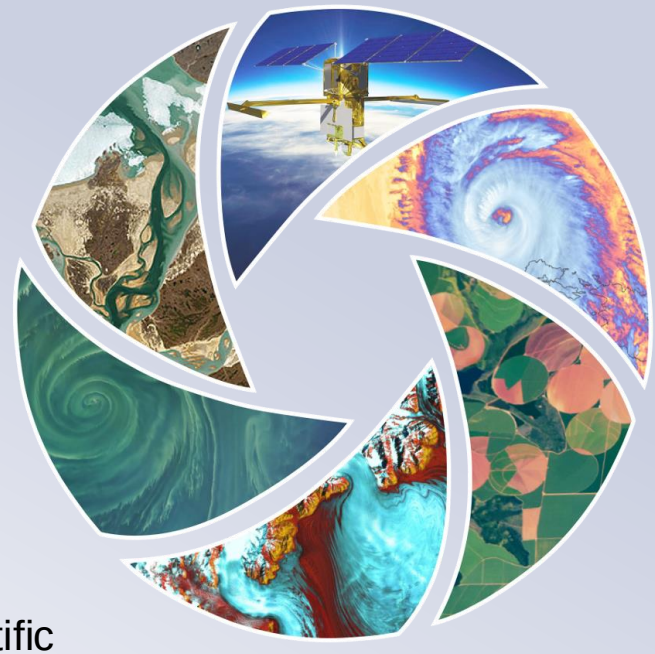
Aaron Kaulfus
CSDA Data Manager
NASA Marshall Space Flight Center

Jennifer Brennan
CSDA Communications Lead
NASA Goddard Space Flight Center



CSDA Program Mission

Identify, evaluate, and acquire commercial satellite data that support NASA's Earth science research & application goals.



CSDA Program Goals

- Establish a continuous and repeatable process to on-ramp new commercial data vendors.
- Enable sustained use of purchased data for broader use and dissemination by NASA scientific community.
- Ensure long-term data preservation, access and distribution of purchased data and long-term access for scientific reproducibility.
- Coordinate with other US Government agencies and international partners on the evaluation and scientific use of commercial data.
- Compliance with 2003 US Commercial Remote Sensing Policy

NASA's CSDA program introduction webinar held on August 28, Check out the recording at: https://lnkd.in/eB4aV5Z5

Commercial Smallsat Data Acquisition (CSDA) Program | Earthdata (nasa.gov)

https://www.earthdata.nasa.gov/esds/csda/commercial-datasets

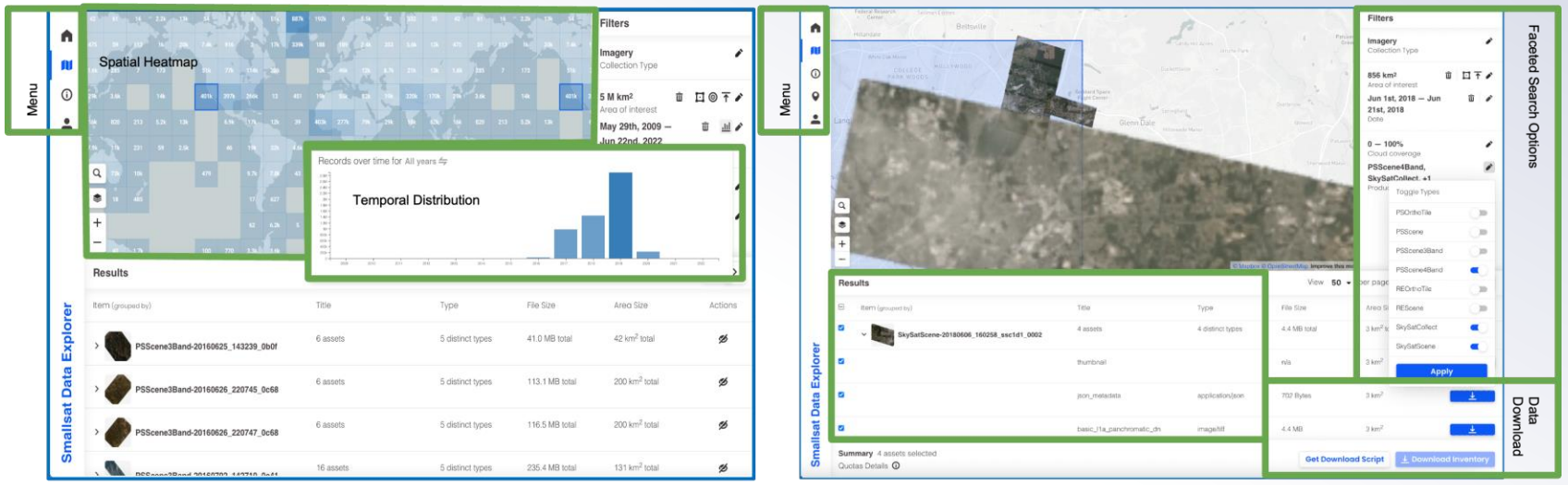
IDIQ On-ramp 1 Award

- Contract Type: Multiple Award, Indefinite Delivery Indefinite Quantity (IDIQ), Fixed-Price Contract
- CSDA Program Indefinite Delivery Indefinite Quantity (IDIQ) On-Ramp 1 - Request for Proposals (RFP), closed March 25, 2024
- Under IDIQ, NASA only buys what it needs through competitive task orders; fair and consistent process.
- On **Sept 6, 2024**, NASA awarded **8** new vendors under the IDIQ contract on-ramp 1:
  - BlackSky Geospatial Solutions, Inc. in Herndon, Virginia (Multispectral)
  - ICEYE US Inc. in Irvine, California (SAR)
  - MDA Geospatial Service Inc. in Richmond, British Columbia, Canada (SAR)
  - Pixxel Space Technologies, Inc in El Segundo, California (Hyperspectral)
  - Planet Labs Federal, Inc. in Arlington, Virginia (optical, Multispectral (RGB, NIR) | Surface Reflectance (SR) and Top of Atmosphere (TOA) Radiance; Basic and orthorectified)
  - Satellogic Federal, LLC in Davidson, North Carolina (Multispectral)
  - Teledyne Brown Engineering, Inc. in Huntsville, Alabama (Hyperspectral)
  - The Tomorrow Companies Inc. in Boston (Precipitation Radar)
- The period of performance is through Nov 15, 2028.
- This awards builds up on the previously awarded 7 vendors: Airbus, Capella Space, GHGSat, Maxar, PlanetIQ, Spire and Umbra.

Planet Lab Contract and Data Access

- Planet has been a part of the CSDA program since its conception as a pilot
- They were awarded a BPA contract in September 2018, and issues subsequent task orders to acquire data from PlanetScope, RapidEye, and SkySat under a Planet Expanded EULA.
  - The final task order under the BPA contract had completed September 20, 2024
  - Data that was downloaded is available now through the CSDA SmallSat Data Explorer (SDX) interface
  - If you qualify for data access under our EULA, you can get authorization through the CSDA website: https://csdap.earthdata.nasa.gov/signup
- As part of this recent IDIQ On-Ramp 1, Planet was awarded an IDIQ contract
  - Enables them to compete on competitive task orders
- CSDA has released RFP for Electro-Optical data as a competitive task order that is currently in evaluation.

SmallSat Data Explorer (SDX):
Web interface for central search, discovery, and distribution of CSDA data
https://csdap.earthdata.nasa.gov



CSDA Data Holdings

Access through CSDA Website:
https://www.earthdata.nasa.gov/esds/csda/commercial-datasets

Vendor	Data Available	Date Range	Who is authorized to use the data	Scientific use only	Where to get archived data	EULA
Planet	PlanetScope	6/29/2014-Present	U.S. Federal civil agencies (including NSF) and their funded researchers	Yes	Planet Explorer	Planet Expanded EULA
	RapidEye	2/1/2009-12/31/2019				
	SkySat	3/10/2015-12/12/2019			SDX	
Maxar (formerly DigitalGlobe)	WorldView 1	09/18/2007-Present	NASA (funded) researchers	Yes	CSDA data team	Commercial Data/Imagery EULAs Fact Sheet
	WorldView 2	10/8/2009-Present				
	WorldView 3	8/13/2014-Present				
	GeoEye-1	9/6/2008-Present				
	QuickBird	10/18/2001-1/27/2015				
	IKONOS	10/24/1999-3/31/2015				NextView License
	WorldView 4	12/1/2016- 1/7/2019				Maxar EULA
BlackSky	Spaceview-24	11/29/2018- 07/31/2023	U.S. Government (funded) researchers	Yes	SDX	USG EULA
GHGSat	Methane Abundance and Emission Rates	06/01/2016- 04/31/2024	U.S. Government (funded) researchers	Yes	SDX	USG EULA
Teledyne Brown Engineering, Inc.	DESIS	11/21/2018- 05/31/2024	U.S. Government (funded) researchers	Yes	For available archived data contact: support-csda@earthdata.nasa.gov	DESIS EULA
Polar Geospatial Center	EarthDEM		U.S. Government (funded) researchers	N/A For further information contact pgc-support@umn.edu	SDX	Commercial Data/Imagery EULAs Fact Sheet

Vendor	Data Available	Date Range	Who is authorized to use the data	Scientific use only	Where to get archived data	EULA
Airbus DS Geo Inc	TerraSAR-X	11/19/2007-11/25/2022	U.S. Government (funded) researchers	Yes	SDX	Airbus U.S. USG EULA.
	TanDEM-X	2/3/2011-11/4/2022				
	PAZ	9/20/2018-10/2/2022				
Spire	GNSS Radio Occultation	9/24/2018 - 12/9/2018; 12/14/2018 - 3/8/2019; 11/1/2019-Present	U.S. Government (funded) researchers	Yes	SDX	Spire USG EULA
	GNSS Grazing Angle Reflectometry	1/9/2019-4/18/2019; 11/1/2019-Present				
	GNSS Grazing Angle Reflectometry Sea Ice	3/1/2020-Present				
	GNSS Grazing Angle Reflectometry Altimetry	6/16/2020-Present				
	GNSS-R Level-1 Bistatic RCS	5/1/2021-Present				
	Ionospheric Profiles	11/1/2019-Present				
	Magnetometer	11/1/2019-Present			Request authorization By request (PDF)	
	Raw Radio Occultation	6/17/2020-9/8/2020				
	Satellite Precise Orbital Determination (POD) and Satellite Attitude	9/24/2018-4/18/2019; 11/1/2019 -Present				
	Scintillation	11/1/2019-Present				
	Total Electron Content	11/1/2019-Present				
	Ocean Winds and MSS	5/1/2021-Present				



Planet Labs



Vince Hurley
Planet Federal

Director of U.S. Federal Civilian Sales



Caitlin Ochoa-Llamas
Planet

Senior Customer Success Manager



Seamus Lombardo
Planet

Impact Measurement Associate