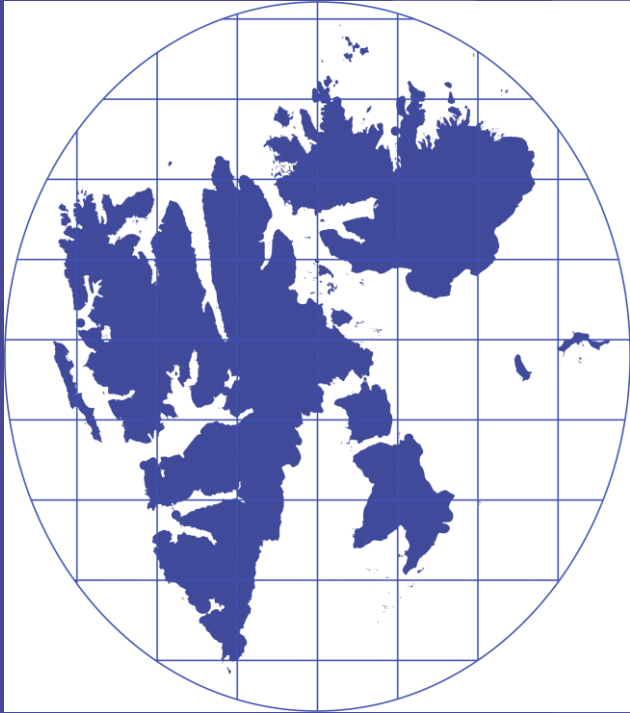


# SIOS-Planet Call 2023 Webinar

Introduction and tips for potential applicants



**Shridhar D. Jawak**

Remote Sensing Officer



# Svalbard Integrated Arctic Earth Observing System

An international research infrastructure for Arctic Earth System Science (ESS)

## Vision

**We will be the leading long-term observing system in the Arctic to serve Earth system science and society**



# Mission

**An international partnership of researchers studying the environment and climate in and around Svalbard to**

- Develop an efficient observing system
- Share technology, experience and data
- Close knowledge gaps
- Decrease the environmental footprint of science

# The Svalbard Integrated Arctic Earth Observing System (SIOS)

- **A consortium** of institutions with research infrastructure in & around Svalbard

28 institutions from 10 countries



- **An observing system** for Earth System Science (ESS)

Focus on processes,  
e.g. environmental and climate change





# Cooperation of international institutions



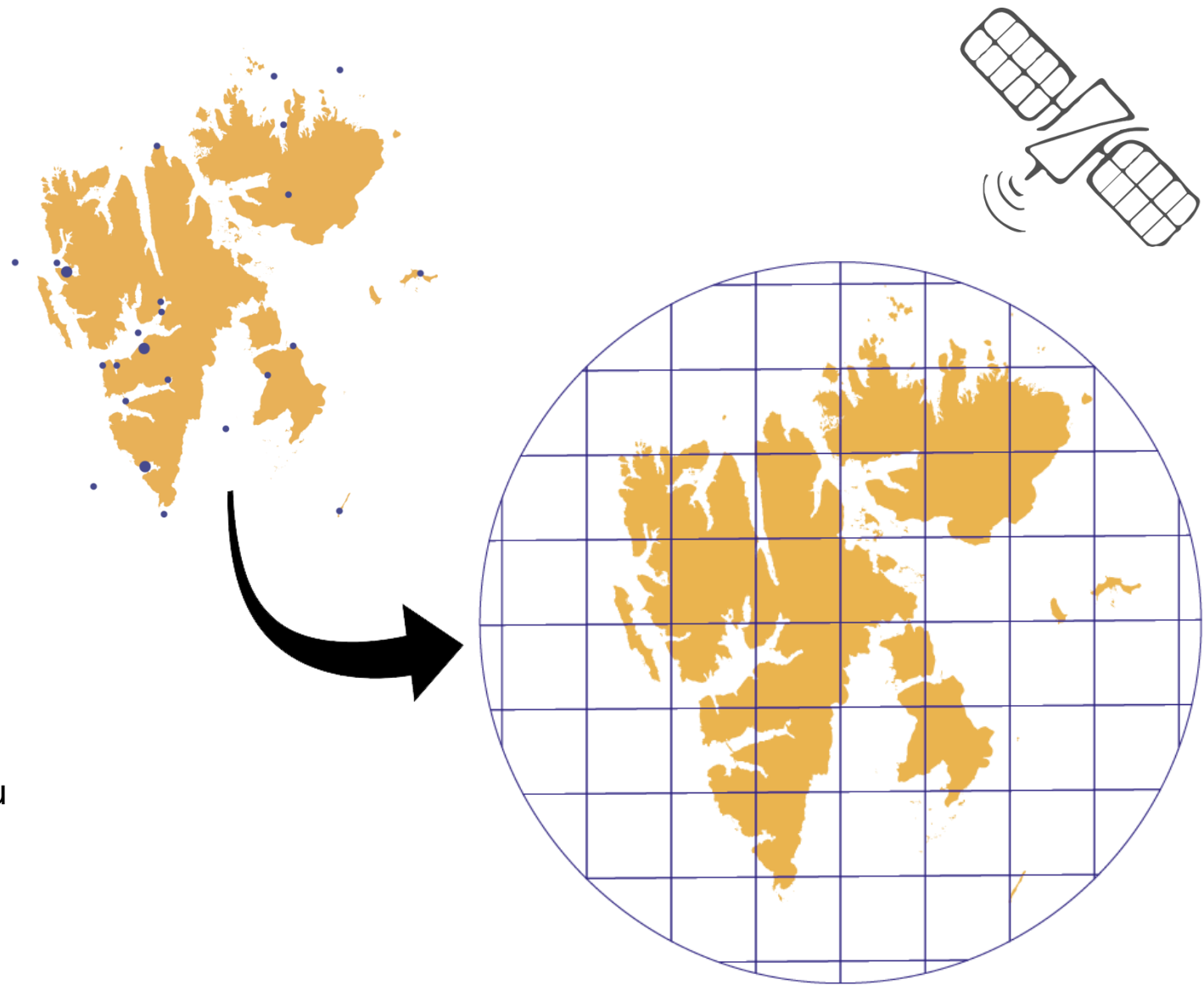
# **SVALBARD** Integrated Arctic Earth Observing System



- High Arctic
- Large temperature gradients
- Influenced by complete Northern hemisphere (water and air currents)
- Well developed infrastructure
- Unique potential for use of satellite data
- High-quality research infrastructure

# SIOS works towards ...

- **Integration** of new & existing infrastructure and data
- A network of **systematic observations**
- **Better temporal and spatial coverage** of key observational data
- Reliable access to **long-term** monitoring data
- **Improved integration** of space-based and in-situ observations
- **Improving research conditions** for scientists working in ESS



# SIOS-Planet call

A cooperation project proposal call to demonstrate the usability of high-resolution Planet data in the Arctic.

**Webinar for applicants: 20 January 2023**

**Deadline: 28 February 2023**



Credit: NASA/Emmald Space Flight Center Scientific Visualization Studio, (NASA/ESF).

## SIOS-Planet cooperation project proposal call to demonstrate the usability of high-resolution Planet data in the Arctic



[www.sios-svalbard.org](http://www.sios-svalbard.org)



# Timeline of the call

**Announcement of call:** 8 December 2022

**Opening of call (opening of web form for proposal submission):** 2 January

**2023 Webinar for potential applicants:** 20 January 2023

Deadline to submit a proposal: 28 February 2023

Evaluation of projects: Continuous (2 January 2023 – 28 February 2023)

Decision: Expected by Early March – 2023

\*Data availability for selected project teams: March 2023 – March 2024 (1 year)

Project period: March 2023 – March 2024 (1 year)

Final project report submission: 1 June 2024

Selection of top 5 projects: SIOS Online Conference (June 2024)

Data management: Throughout the project period and after no later than 1 June 2025

# Data available for this call

1. PlanetScope data, pixel resolution 3-4m (2017-)
2. SkySat images, pixel resolution 0.5m (2013-) limited Arctic coverage
3. RapidEye archive (2009 -2020)

The following data quota per project will be made available to the selected projects:

## **(A) Standard Planet data quota:**

- 200,000 sq.km to be distributed between PlanetScope all-time imagery (archive + monitoring), RapidEye archive and SkySat archive, access and download
- 5,000 sq.km for SkySat flexible tasking

## **(B) Standard Planet data quota (A) + SIOS/CRIOS add-on**

SIOS and CRIOS will provide an add-on PlanetScope and RapidEye data quota of 12,500 km<sup>2</sup> for **three selected projects** through additional licensing upon request. You will need to choose option B in the application form if you would like to use this quota.

# Eligibility for applications

**This call for applications is open to everyone meeting the following criteria:**

- Applicants must be capable of finishing the goals of the proposal within the stipulated timeline.
- Applicants must agree with Terms & Conditions of the Planet Education & Research license.
- Applicants must pass Planet's usual compliance check (in particular excluded are parties that are subject to certain sanctions by the US and EU).

**SIOS strives to encourage:**

- Project teams that include early career researchers (ECRs) (within 7 years from PhD)
- Project teams with a good gender balance
- Activities that strengthen international cooperation and collaboration
- Collaboration within the Svalbard science community. Accordingly, applicants are encouraged to collaborate with researchers from SIOS member institutions.

# Evaluation procedure

## Primary Criteria:

- Scientific quality and feasibility of completion within the time frame
- Competence of the principal investigator and project team

## Secondary criteria:

- Relevance to SIOS: Contribution to developing the observing system
- Proposals delivering Svalbard-wide products
- Demonstrating the usability of Planet data in Svalbard science
- Specifically addressing one or more of the recommendations in the SESS reports
- AI/machine learning applications in Svalbard
- Closing the gaps in or complementing in situ data or measurements
- Spatial modelling between airborne and/or satellite-borne data and ground measurements
- Contribute to long-term monitoring or intend to start regular observations (SIOS core data).
- Demonstrating the usability of Planet data in Svalbard science
- Implementation of the assumptions of the CRIOS project (for its Partners)



# Commitments:

- Commit to presenting research outcomes in SIOS activities (webinars, online conferences, Polar Night Week).
- Should clearly acknowledge SIOS, Planet and CRIOS (if relevant) in all the scientific publications and presentations
- Applicants must commit to making the derivative geoinformation/products available through SIOS data management system in line with the Planet license terms set forth above. SIOS-KC will be able to guide in making the derivative products/geoinformation available.
- PI must submit a brief project report. The project report should be complemented by the scientific manuscript submitted to a peer-reviewed journal. The SIOS and CRIOS will jointly announce a special issue in a peer-reviewed journal during December 2023-June 2024 in connection to this call. Applicants are encouraged to submit their scientific manuscripts to this special issue

# Awards:

All the selected projects will receive access to the Planet data as per their requests.

All the projects will be evaluated to select the top 5 winners.

**The top five project teams will receive the following benefits:**

1. SIOS award: PI of the project will be invited to present research results at the SIOS's annual gathering Polar Night Week in Longyearbyen (January 2025). All reasonable pre-approved costs associated with travel and accommodation will be covered by SIOS.
2. Planet award: Planet will provide access to the Planet data for selected projects and technical support with commercially reasonable efforts. The top projects will have an opportunity to promote the results in Planet-related marketing channels (i.e., in dedicated webinars, Planet Explore Conference, Planet science newsletter, and social media).

# Mentorship:

**Mentors are selected members from**

- SIOS RSWG
- Members from Planet's EMEA SE
- Representatives of CRIOS will act as mentors to the selected project teams.

The mentor's role is to advise selected project teams to fulfil their project objectives. Mentors will provide advice via emails and/or virtual meetings.

## How to apply?

[https://sios-svalbard.org/SIOS\\_PlanetCall2023](https://sios-svalbard.org/SIOS_PlanetCall2023)

# Tips for potential applicants

- (1) Have a look at the SIOS and CRIOS project activities on respective websites.  
e.g., Snow agenda paper, snow pilot project, SESS report, airborne remote sensing projects  
Studies that complement infrastructure installation and safe fieldwork in Svalbard are encouraged
- (2) Pay attention to the primary evaluation:  
“Scientific quality and feasibility of completion within the time frame”  
Secondary criteria: It is enough if you fulfil only one of them
- (4) Data quota? A or B (Justify)
- (5) Mentorship: Mention the name of the mentor in the application form.
- (6) Activities that strengthen international cooperation and collaboration, involving ECRs, and gender balance in the team.
- (7) Have a look at the application form and make attachments ready beforehand.



# Thank you for listening!

Any questions?