



# Planet's Groundbreaking Hyperspectral Mission

New Possibilities for Measuring Methane, CO<sub>2</sub> Emissions, and more

METHANE PLUME • Loving, New Mexico • January 24, 2020

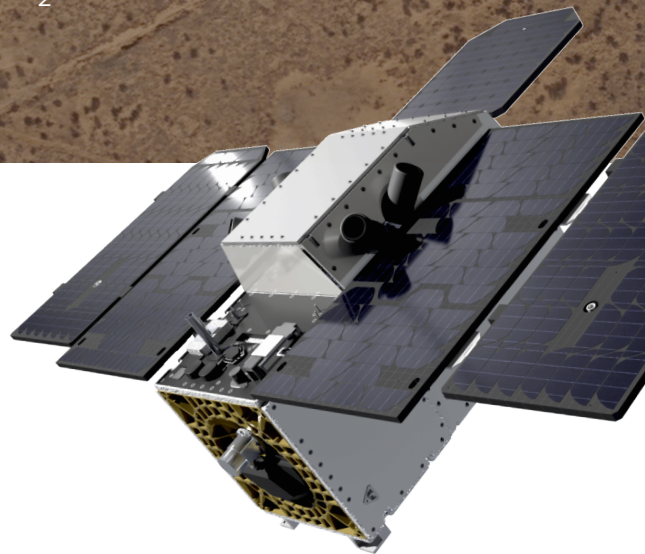
Planet is designing a groundbreaking hyperspectral satellite constellation called Tanager, with plans to begin launching in 2024, that aims to create a paradigm shift in the way we can understand human activities and the impact they have in our communities.

Planet's hyperspectral mission is designed to measure energy in the visible through shortwave infrared wavelengths (400–2500 nm) in over 400 spectrally contiguous bands with 30-meter ground sample distance (GSD).

This capability can support the identification of methane emissions at the facility scale, along with a myriad of other applications to improve life on earth spanning across areas such as biodiversity, water quality, land use, national security, agriculture, and more.

## COLLECTIVE ACTION

Planet's hyperspectral mission is a first of its kind public-private partnership consisting of a broad-based coalition of industry, government, philanthropies, and academic institutions. Key partners include:



Tanager, Planet's groundbreaking hyperspectral satellite constellation

## About Planet Labs PBC

Planet Labs PBC is a leading provider of global, daily satellite imagery and geospatial solutions. Planet is driven by a mission to image the world every day, and make change visible, accessible and actionable. Founded in 2010 by three NASA scientists, Planet designs, builds, and operates the largest Earth observation fleet of imaging satellites, capturing over 30 TB of data per day. Planet provides mission-critical data, advanced insights, and software solutions to over 800 customers, comprising the world's leading agriculture, forestry, intelligence, education and finance companies and government agencies, enabling users to simply and effectively derive unique value from satellite imagery. Planet is a public benefit corporation with the purpose to accelerate humanity toward a more sustainable, secure, and prosperous world, by illuminating environmental and social change.

## BENEFITS

Methane is 80 times more potent than carbon dioxide in its planet-warming potential, and curbing methane emissions now is one of the most effective ways to slow climate change. On a local scale, mitigating methane emissions can help safeguard public health by reducing exposure to this harmful pollutant.

Planet's hyperspectral mission brings the promise of ushering in a new era of increased transparency and accountability by providing rapid methane leak detection, while our partner Carbon Mapper is developing a global portal for wide adoption and providing a trusted certification chain underpinned by our public-private partnership. Planet's technology can provide federal, state, and local governments the tools to measure point-source methane emissions and enable remediation and prevention.

## TECHNOLOGY

Planet's methane-specific hyperspectral offering could enable users to identify and quickly address methane plumes emanating from specific facilities. These capabilities can be tasked to assist in infrastructure surveys or as a monitoring capability engaged at regular user-driven cadences. Planet's satellite-based technology is intended to balance coverage and sensitivity, covering enough area with a frequency to meet end user needs while providing the sensitivity needed to find facility-level leaks.



### TRACK GLOBAL EMISSIONS

Planet's planned hyperspectral sensors are designed to monitor greenhouse gas emissions, including point source methane emissions, and could help verify and validate planned methane reductions.



### IMPROVE CLIMATE RESILIENCE

Planet's high-frequency data is designed to enable communities to prepare for, withstand, and recover from natural disasters and the effects of climate change.



### MEASURING PROGRESS OF PARIS CLIMATE AGREEMENT

Planet's global daily data can help monitor progress for international climate commitments including the global stocktake of the Paris Agreement.



### GLOBAL METHANE PLEDGE

Planet's planned Tanager satellite is designed to be able to track methane emissions with unprecedented accuracy and detail, supporting the measurement of progress towards meeting the global methane pledge.

## FORWARD-LOOKING STATEMENTS

Except for the historical information contained herein, the matters set forth in this document are forward-looking statements including, but not limited to, the ability of Planet Labs PBC (the "company") to successfully design, build, launch and deploy, operate and market new products and satellites and the company's ability to realize any of the potential benefits from product and satellite launches, either as designed, within the expected time frame, in a cost-effective manner, or at all. Forward-looking statements are based on the company's management's beliefs, as well as assumptions made by, and information currently available to them. Because such statements are based on expectations as to future events and results and are not statements of fact, actual results may differ materially from those projected. Factors which may cause actual results to differ materially from current expectations include, but are not limited to: the company's ability to obtain and maintain required licenses and approvals from regulatory agencies, such as the Federal Communications Commission (FCC), in a timely fashion, or at all; whether the company will be able to successfully build, launch and deploy or operate its satellites, including new satellites either as designed, in a timely fashion or at all; the company's ability to develop and release product and service enhancements to respond to rapid technological change, or to develop new designs and technologies for its satellites, in a timely and cost-effective manner; whether the company will be able to continue to invest in scaling its sales organization, expanding its software engineering (including its ability to integrate new satellite capabilities) and marketing capabilities; whether the company will be able to accurately predict and capture market opportunity; whether current customers or prospective customers adopt the company's platform or new products; the company's ability realize any of the potential benefits from new products and satellites, as well as strategic partnerships and customer collaborations; and the risk factors and other disclosures about the company and its business included in the company's periodic reports, proxy statements, and other disclosure materials filed from time to time with the Securities and Exchange Commission (SEC) which are available online at [www.sec.gov](http://www.sec.gov), and on the company's website at [www.planet.com](http://www.planet.com). All forward-looking statements reflect the company's beliefs and assumptions only as of the date such statements are made. The company undertakes no obligation to update forward-looking statements to reflect future events or circumstances.

## GET IN TOUCH



**Learn more about Planet's hyperspectral mission:**

[planet.com/products/hyperspectral](http://planet.com/products/hyperspectral)

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