

# Disrupting new space with real-time dynamic monitoring | Emergency Response Imaging

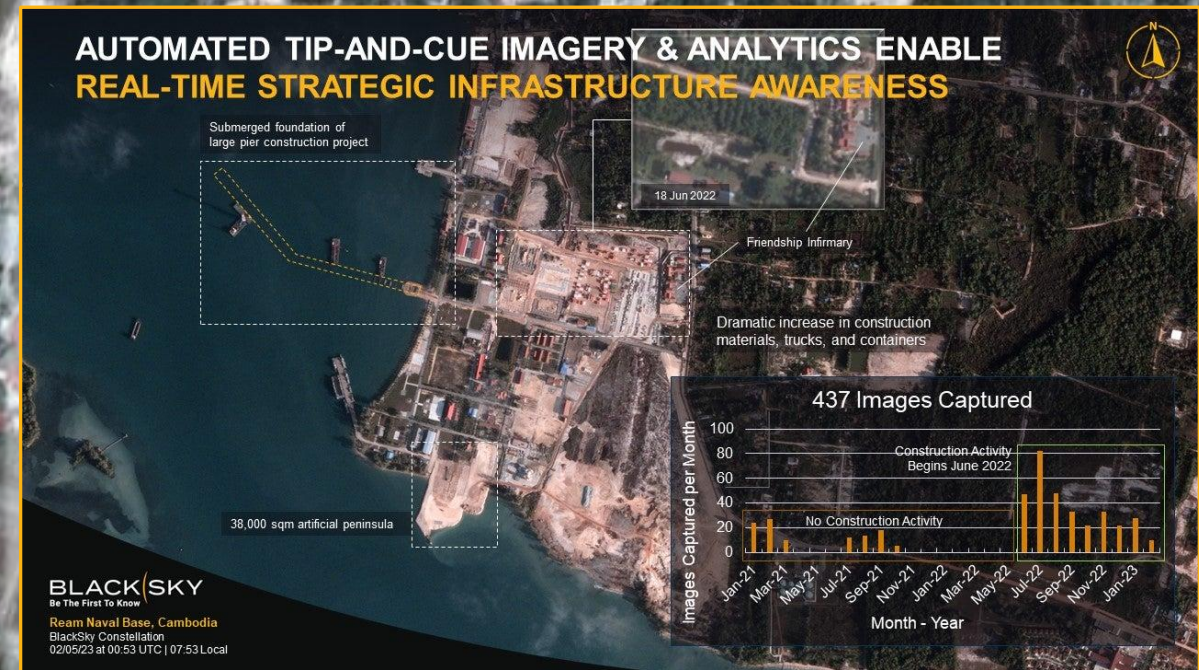
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Maurice Borer, Regional Sales Manager - OCEANIA

27 November 2023

Pacific Islands GIS and Remote Sensing User Conference 2023

# Hindsight is 20/20. Foresight is a superpower.



# BLACK|SKY

20210818 1050 hrs



# A smarter approach to space.

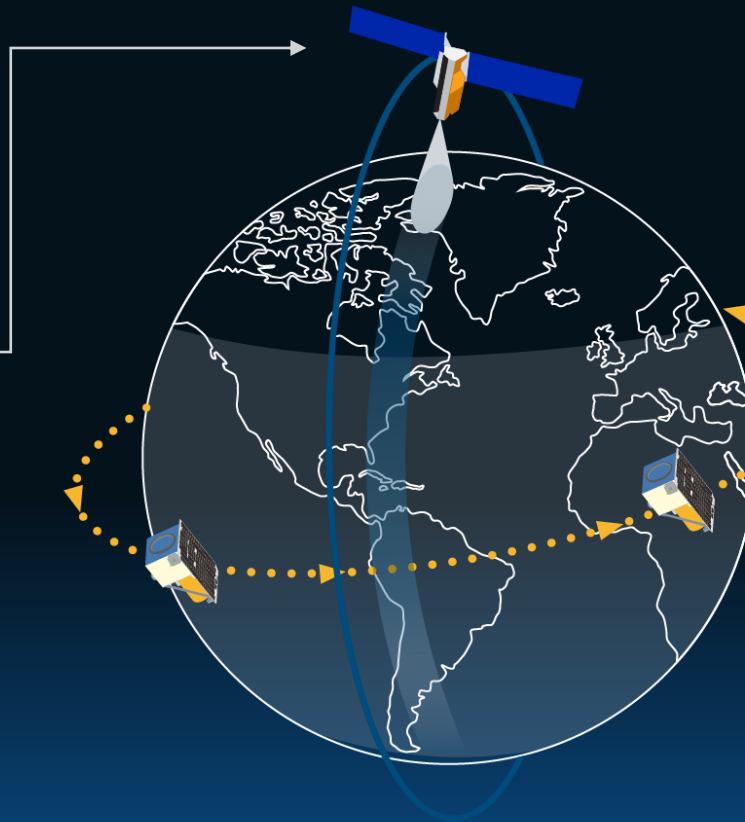
**High-frequency monitoring** of the most important strategic locations, economic assets, and events in the world.

**Actionable intelligence** from capture to delivery in under 90 minutes, up to 15 times a day.

**Easy access platform** for all users, optimized for agility; no geospatial data expertise required.

## STATIC MAPPING

Traditional large polar-orbiting satellites collect static images over the entire globe.



## BLACKSKY REAL-TIME MONITORING

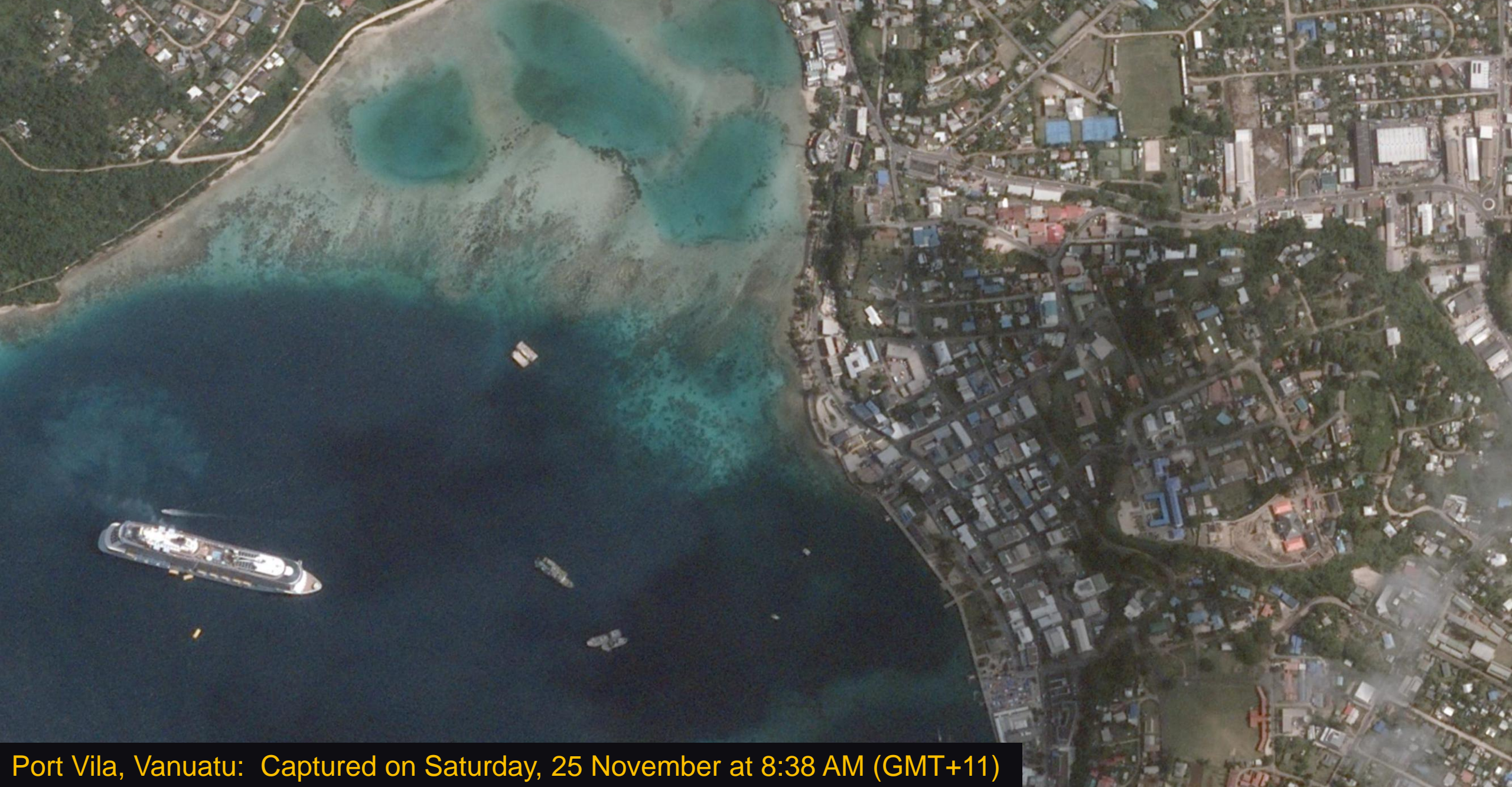
BlackSky's constellation monitors the most important strategic and economic assets in the world.











Port Vila, Vanuatu: Captured on Saturday, 25 November at 8:38 AM (GMT+11)

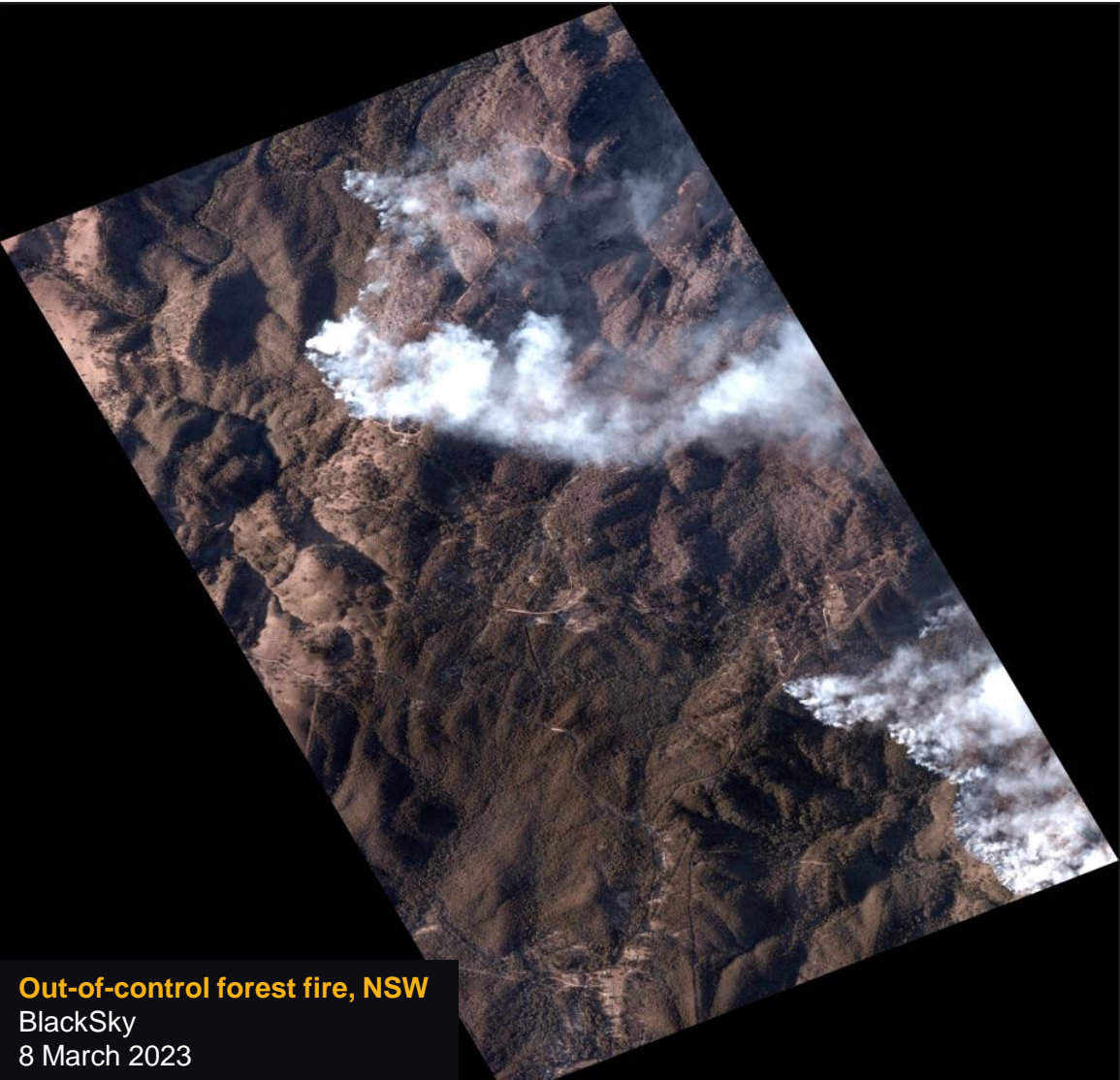
# BLACK(SKY

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# Use Case: Disaster Response - highest priority tasking



**Out-of-control forest fire, NSW**  
BlackSky  
8 March 2023



**Out-of-control grass fire, NSW**  
BlackSky  
19 March 2023

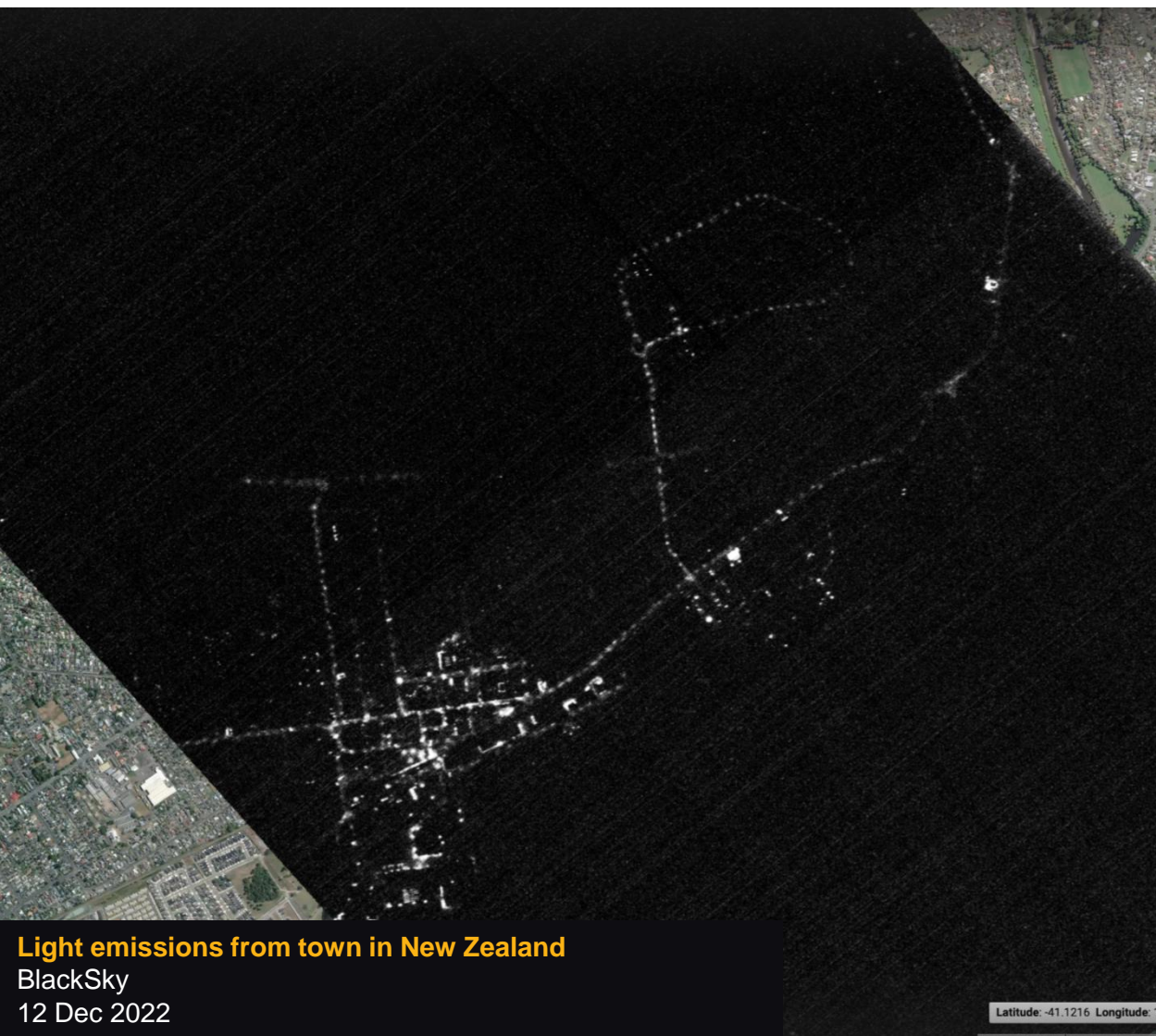
*Order placed at 2023-03-19 01:26, Sun 19 Mar 12:26 (AEST)*

*Acquired on 2023-03-19 03:05:12 UTC, Sun, 19 Mar 14:05 (AEST)*

*Delivered in **1:41 hour** from time of order placement.*



# Use Case: Disaster Response – Night-time imagery



**Light emissions from town in New Zealand**

BlackSky  
12 Dec 2022

Latitude: -41.1216 Longitude: 171.7000

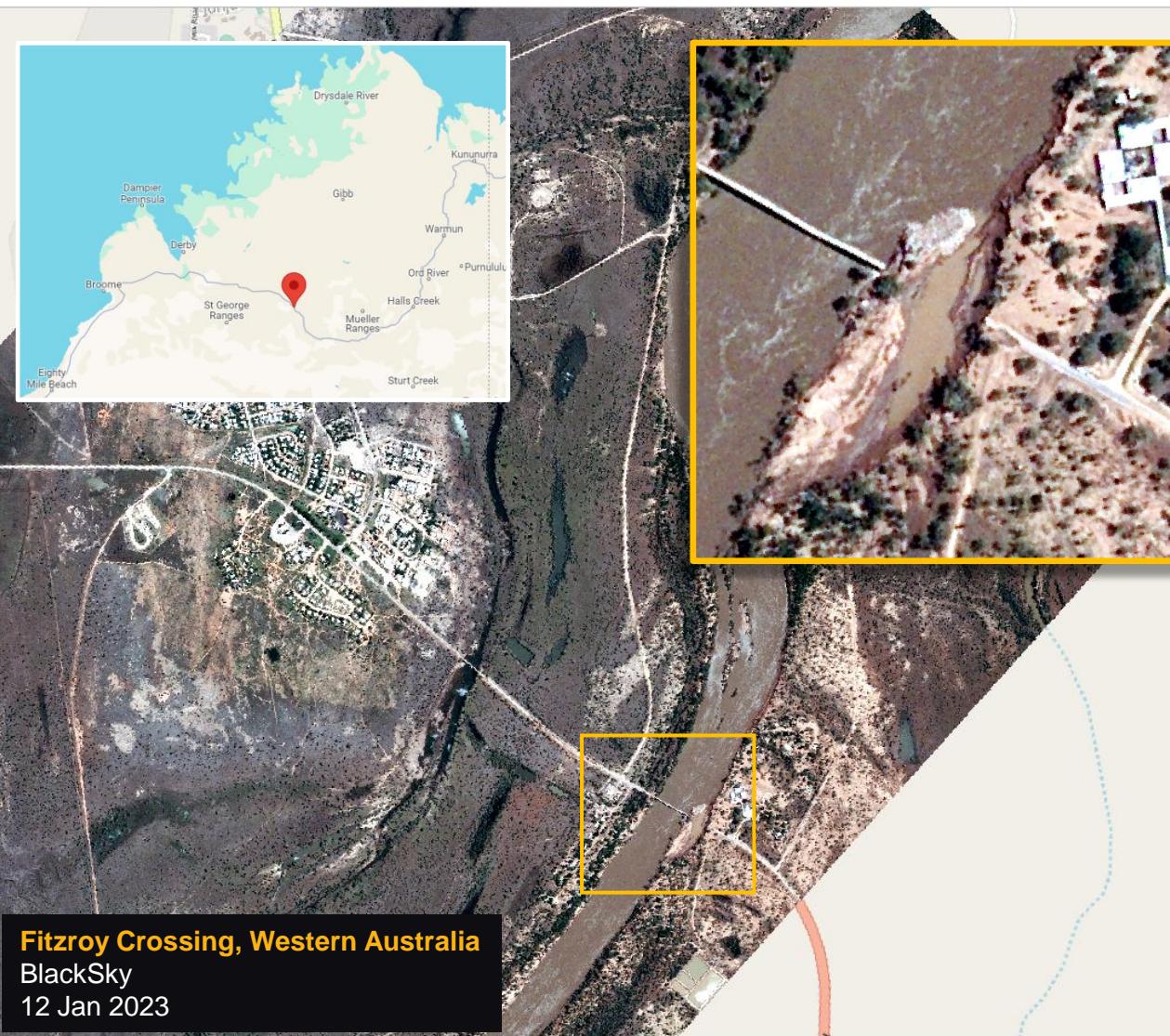


**Out-of-control grass fire monitored during the night, NSW**

BlackSky  
17 March 2023



# Use Case: Disaster Response - highest priority tasking



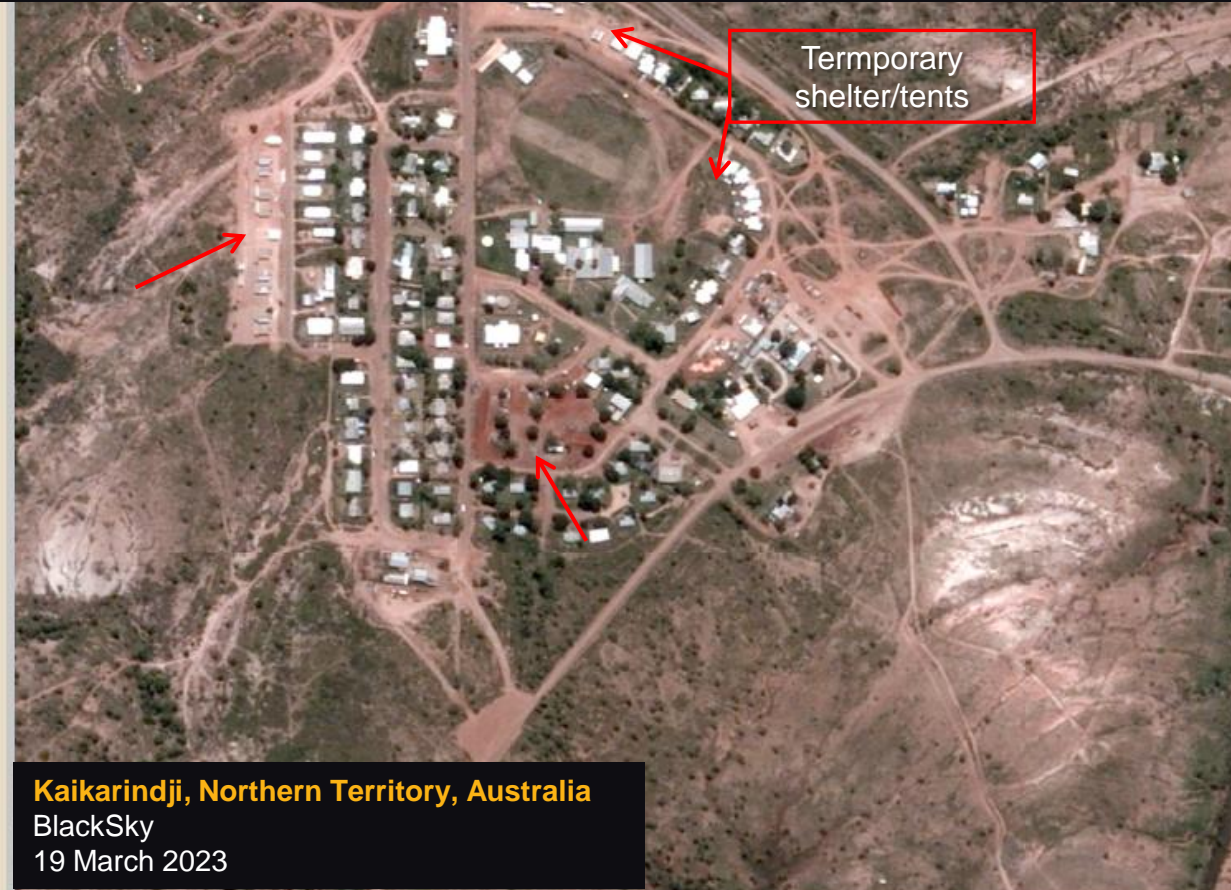


# Use Case: monitor recovery progress post disaster



1 August 2022

Before



25 April 2023

After



# Use Case: Events driven, on-demand emergency tasking

The screenshot displays the BlackSky web interface. At the top, the 'BLACK|SKY' logo is on the left, and a notification bell with '20' is on the right. Below the logo is a navigation bar with 'Fiji' and icons for home, user, and star. A search bar contains 'disaster (11)'. Below the search bar are filter buttons for 'accidents and disasters (11)', 'adverse events (11)', 'destructive storms (11)', 'disasters (11)', 'life and society (11)', 'natural disasters (11)', 'storms (11)', 'structured content (11)', and 'trading impact (ice codes) important corporate eve'. A 'Define region' dropdown is followed by filters for 'Author method', 'GeoPrecision', 'Confidence', 'Anomaly score', 'Location certainty', 'Severity', 'Media sources', and 'Image worthiness'. A search bar contains 'Narrative', 'Disaster', 'and', 'Natural Disasters', 'Sigterm:"Cyclone"', and 'Damage', with an 'Add Search Term(s)' button.

The left sidebar shows '11 Events in Viewport' for the date range '10/24/2023 - 11/23/2023'. It lists four events:

- 10/25/2023 Torba: Widespread damage as Cyclone Lola lashes Vanuatu's northern provinces
- 10/25/2023 Penama: 'Extensive and destructive' damage as Cyclone Lola rips through Vanuatu – its first October category 5 storm ever
- 10/25/2023 Luganville: Vanuatu fears the extent of damage from Tropical Cyclone Lola
- 10/24/2023 Pentecost Island

The main map area shows a search bar 'Search map' and a map of the Pacific region. Heatmaps and markers are visible over Vanuatu and the Solomon Islands. The map includes labels for 'Solomon Islands', 'Lata', 'Tuvalu', 'Tokelau', 'Wallis and Futuna', 'Samoa', 'Niue', 'Tonga', 'New Caledonia', 'Koumac', 'Nouméa', 'Coral Sea', and 'Solomon Sea'. The bottom right of the map shows 'Latitude: -20.7050 Longitude: 154.4105 Zoom Level: 5'.



# Use Case: Events driven, on-demand emergency tasking

The screenshot displays the BlackSky web interface. At the top, the 'BLACK|SKY' logo is visible. Below it, a navigation bar includes 'Fiji' and various icons. A search bar contains the term 'disaster (1)'. A horizontal menu of filters includes categories like 'accidents and disasters (1)', 'adverse events (1)', 'destructive storms (1)', 'disaster and accident (1)', 'disasters (1)', 'flood (1)', 'floods (1)', 'life and society (1)', 'natural disasters (1)', 'science (1)', 'storms (1)', and 'structured content (1)'. Below this, a 'Define region' dropdown is followed by several filter menus: 'Author method', 'GeoPrecision', 'Confidence', 'Anomaly score', 'Location certainty', 'Severity', and 'Image worthiness'. A search bar at the bottom of this section contains 'Narrative', 'Disaster', 'and', 'Natural Disasters', and 'Bridge', with an 'Add Search Term(s)' button.

The main content area is divided into two sections. On the left, a sidebar titled '1 Events in Viewport' shows a date range of '10/24/2023 - 11/23/2023' and a toggle for 'Visible results'. Below this, a single event is listed: 'Bridge under water | Request falls on deaf ears' by 'Tailevu' on '11/14/2023'. On the right, the detailed view of this event is shown. The title is 'Bridge under water | Request falls on deaf ears' with a sub-header '11/14/2023 (Updated 11/14/2023)'. Below the title are six performance metrics: 'Disaster' (1 icon), 'Confidence' (8, High (8)), 'Location Certainty' (9, High (9)), 'GeoPrecision' (5, City/Town (5)), 'Data Sources' (1), and 'Media Sources' (1). A large image shows two people wading through a flooded road. To the right of the image is a text snippet: 'For the past 16 years, villagers in Nakorovou, Tailevu, have been pleading with the government to raise a bridge that gets flooded during heavy rain. "We have about 87 villagers who use the bridge," he said. "We have two villages – Navunisole and Nakorovou – that get cut off when this bridge gets flooded." Setefano Rasila, a resident, said inclement weather always meant students missing school and'.



# Use Case: Multi-source, weather driven tasking

## Imagery Options (ordering available in Spectra)

High Resolution, Fastest Revisit  
0.8m - 1.1m

Very High Resolution & IR  
0.4m - 0.8m

Broad Area  
1.5m, 100 km<sup>2</sup> and up

Synthetic Aperture Radar (SAR)  
0.5m - 40m

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Virtual Constellation

Resolutions are approximate

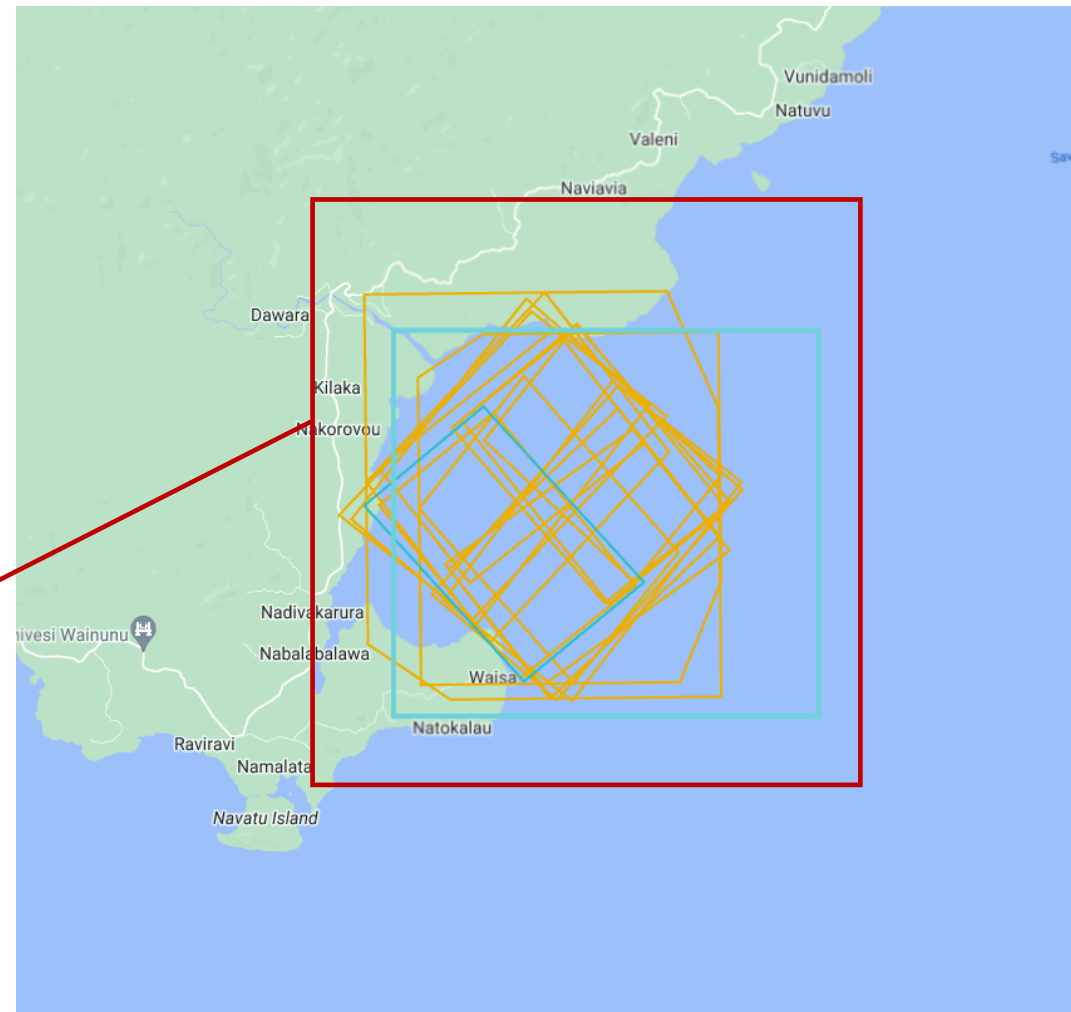
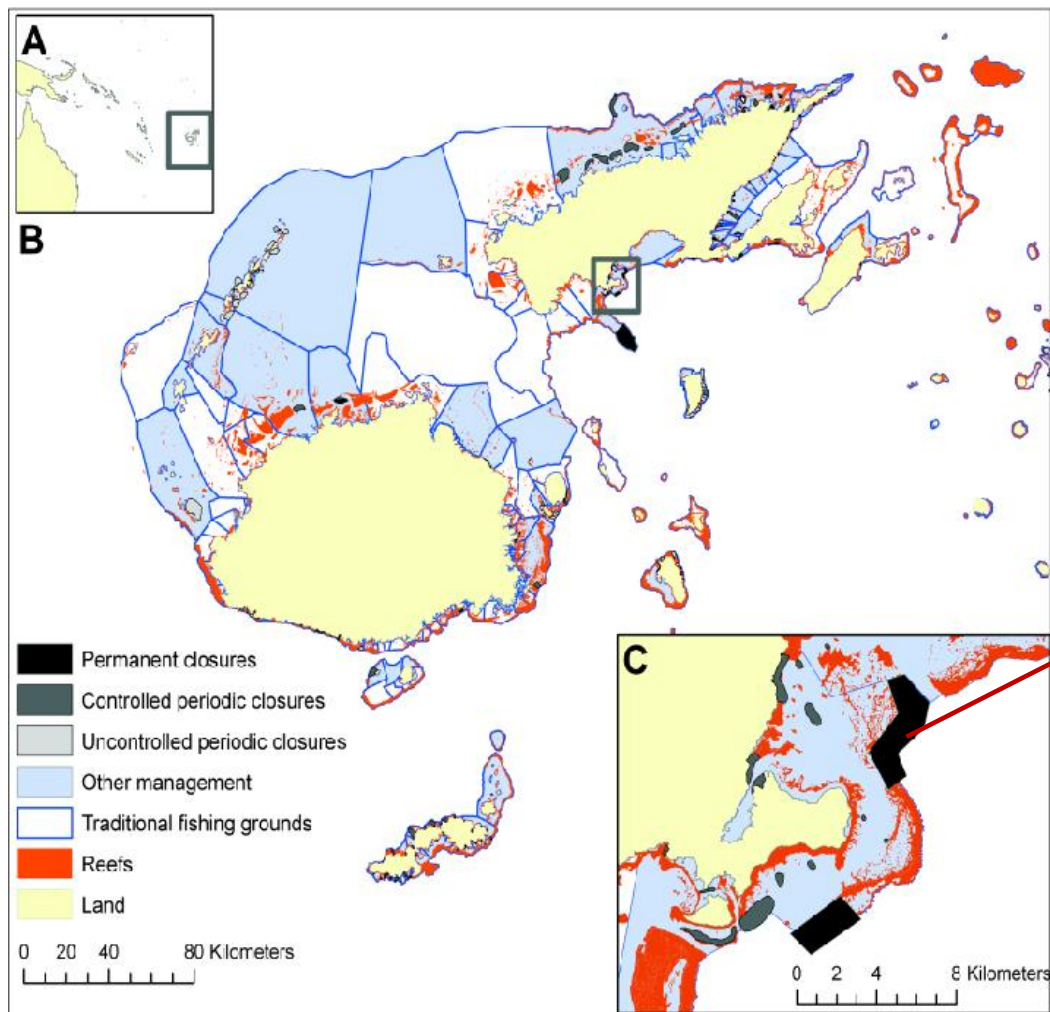
The screenshot displays the BlackSky Spectra Tasking interface. The top navigation bar includes 'TASKING', 'ARCHIVE', 'STATUS', 'PRODUCTS', 'SITES', 'ORDERS', and 'REPORT'. The main content area is titled 'Archive Search' and shows a list of 30 search results. The results table includes columns for 'Columns', 'Date', 'Cloud cover', 'Resolution', and 'Scene'. Several results are checked, indicating they have been added to the cart. A map view on the right shows the location of Windsor, NSW, Australia, with a satellite overlay of the flooded area. A weather graph at the bottom right shows the precipitation levels for the period from 2022-07-07 to 2022-07-18.

Columns	Date	Cloud cover	Resolution	Scene
<input type="checkbox"/>	2022-07-09 22:55 UTC	97.7%	1.1m	BS
<input type="checkbox"/>	2022-07-09 05:21 UTC	0.0%	1.1m	BS
<input type="checkbox"/>	2022-07-09 00:47 UTC	0.0%	1.4m	BS
<input type="checkbox"/>	2022-07-09 00:28 UTC	0.0%	1.1m	BS
<input type="checkbox"/>	2022-07-08 23:40 UTC	0.0%	1.0m	BS
<input checked="" type="checkbox"/>	2022-07-08 23:39 UTC	0.0%	1.1m	BS
<input checked="" type="checkbox"/>	2022-07-08 05:18 UTC	0.0%	1.2m	BS
<input checked="" type="checkbox"/>	2022-07-08 02:20 UTC	0.0%	1.1m	BS
<input checked="" type="checkbox"/>	2022-07-08 01:11 UTC	0.0%	1.1m	BS
<input type="checkbox"/>	2022-07-08 01:03 UTC	0.0%	1.4m	BS
<input type="checkbox"/>	2022-07-06 01:01 UTC	100.0%	1.0m	BS
<input type="checkbox"/>	2022-07-03 02:25 UTC	100.0%	1.2m	BS
<input type="checkbox"/>	2022-07-02 23:48 UTC	100.0%	1.0m	BS
<input type="checkbox"/>	2022-07-02 23:47 UTC	100.0%	1.0m	BS
<input type="checkbox"/>	2022-07-02 04:18 UTC	99.9%	0.9m	BS
<input type="checkbox"/>	2022-07-02 00:55 UTC	85.0%	1.1m	BS

- Weather-driven tasking of Electro-optical and/or SAR imagery



# Use Case: Monitoring of Protected Habitat



• [M. Mills](#), [S. Jupiter](#), [B. Pressey](#)

• Published 2011

• Environmental Science

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# Use Case: Monitoring of Protected Habitat

- Order placed on 15 Nov 2023 04:34 (UTC)
- 14 images captured over 2 days 18 hours

<input type="checkbox"/>	↓ Date	Cloud cover	Resolution
<input type="checkbox"/>	2023-11-17 23:31 UTC	11.7%	0.9m
<input type="checkbox"/>	2023-11-17 23:30 UTC	22.9%	1.1m
<input type="checkbox"/>	2023-11-17 03:11 UTC	93.4%	1.0m
<input type="checkbox"/>	2023-11-17 03:11 UTC	67.3%	1.0m
<input type="checkbox"/>	2023-11-16 23:35 UTC	0.0%	1.1m
<input type="checkbox"/>	2023-11-16 23:35 UTC	11.6%	1.2m
<input type="checkbox"/>	2023-11-16 18:17 UTC	15.6%	1.1m
<input type="checkbox"/>	2023-11-16 18:17 UTC	5.6%	1.2m
<input type="checkbox"/>	2023-11-16 03:49 UTC	22.6%	1.0m
<input type="checkbox"/>	2023-11-16 03:48 UTC	44.4%	1.0m
<input type="checkbox"/>	2023-11-16 03:01 UTC	46.3%	1.2m
<input type="checkbox"/>	2023-11-16 03:01 UTC	71.3%	1.2m
<input type="checkbox"/>	2023-11-16 00:00 UTC	70.2%	1.0m
<input type="checkbox"/>	2023-11-16 00:00 UTC	79.6%	1.0m





## About BlackSky

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### KEY STATS:

- Founded in 2014
- Headquartered in Herndon, VA
- Offices in Seattle, WA and Albuquerque, NM
- 270+ employees in 8 countries
- Traded publicly: BKSJ
- Designs, builds and operates a LEO Constellation-as-a-Service (Caas)



# A trusted mission partner to the most demanding customers in the world.

## WHO WE SERVE:

- International defense & intelligence organizations
- United States government organizations
- Commercial businesses

Relied upon by governments and Global 2000 organizations.



## OCEANIA



- BlackSky direct and other indirect presence

BlackSky is proud to partner with





# BLACK(SKY

Be The First To Know

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