

MAPPING MARINE HABITATS FROM OUTER SPACE TO UNDERSEA

Using revolutionary remote sensing technologies to advance large-scale coral reef and coastal conservation

DOVE SATELLITES



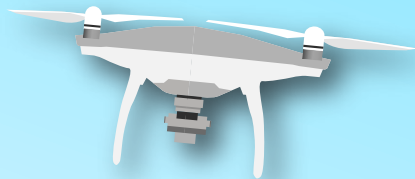
Maps marine habitat across the Caribbean, guides optimal marine protected area design

GLOBAL AIRBORNE OBSERVATORY



Reveals live coral and algal cover, identifies sites that can improve restoration outcomes

AERIAL DRONE



Reveals coral species, evaluates the impact of habitat protection and restoration efforts

SUB-SURFACE IMAGERY



Reveals coral health and growth, determines if coral colonies are thriving and creating habitat

WHO USES THE MAPS?



Conservation scientists and practitioners



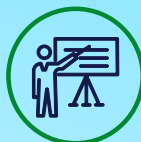
Marine protected area and fishery managers



International governments



Hotel and tourism associations



Educational institutions

WHAT DO THE MAPS ALLOW US TO DO?



Promote effective marine spatial planning and management of protected areas



Quantify the economic and protection value of marine habitats to support policymaking



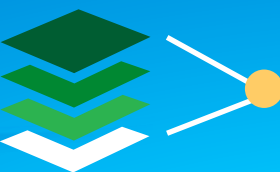
Determine sites for nature-based, climate resilience solutions for coastal communities



Identify areas for urgent coral restoration, including sites that improve survival rates



Catalyze conservation action and education by making vital habitat data readily available



Combining layers of information ensures that precise, detailed maps are generated and allows each of these methods to validate the data collected by the others.

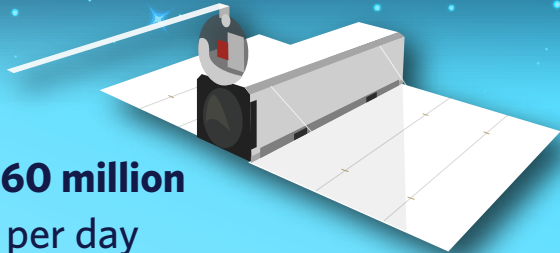


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DOVE SATELLITES

Constellation of satellites capturing images across **~60 million mi² of the Earth's surface** per day



Creates maps of coral reefs and other habitats across the Caribbean at a **pixel size of 150 ft²**



Guides optimal marine protected area design and management planning

GLOBAL AIRBORNE OBSERVATORY

Aircraft with a high-tech spectrometer capturing images across an area **the size of ~135,000 football fields** per day



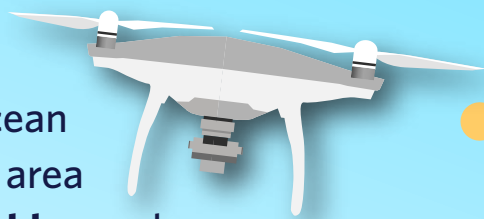
Creates 3D habitat models at a **pixel size of .1 - 10 ft²** and reveals % live coral and algal cover



Identifies sites that can improve survival rates of outplanted corals

AERIAL DRONES

Vehicles that fly over the ocean capturing images across an area **the size of ~700 football fields** per day



Creates 3D habitat models at a **pixel size of 1 in²** and reveals individual coral species type



Evaluates the impact of protection and restoration efforts on coral cover and reef complexity

SUB-SURFACE IMAGERY

Divers and underwater drones capturing images across an area **the size of <1 football field** per day



Creates 3D habitat models at a **pixel size of .01 in²** and reveals coral health and growth rates



Determines if individual coral colonies are thriving and creating habitat for marine life



WHO USES THESE HABITAT MAPS?

- Conservation scientists and practitioners
- Marine protected area and fishery managers
- Hotel and tourism associations
- International governments
- Educational institutions

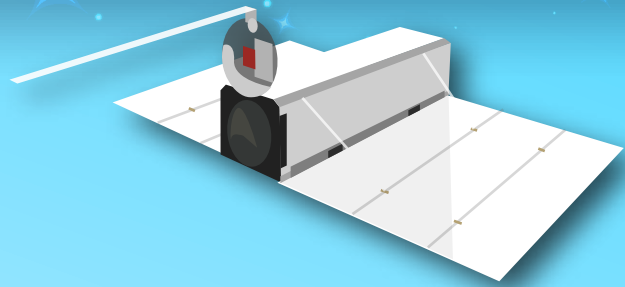
WHAT DO THE MAPS ALLOW US TO DO?



- Promote effective marine spatial planning and management of protected areas
- Quantify the economic and protection value of marine habitats to support policymaking
- Determine sites for nature-based, climate resilience solutions for coastal communities
- Identify areas for urgent coral restoration, including sites that improve survival rates
- Catalyze conservation action and education by making vital habitat data readily available

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DOVE SATELLITES



PIXEL SIZE

150 ft²

COVERAGE

30% of the Earth's surface, or ~60 million mi² per day

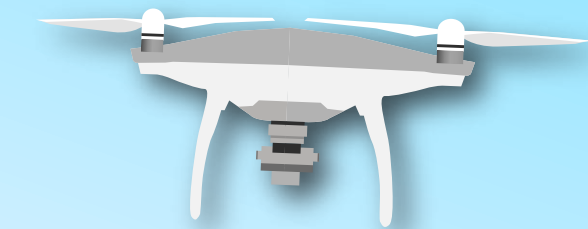


GLOBAL AIRBORNE OBSERVATORY

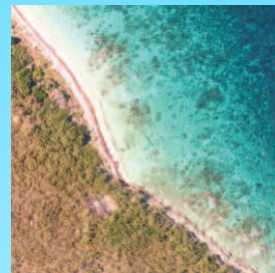


.1 - 10 ft²

area the size of ~135,000 football fields per day



AERIAL DRONE



1 in²

area the size of ~700 football fields per day



SUB-SURFACE IMAGERY



.01 in²

area the size of <1 football field per day

HIGHER RESOLUTION ↑ ↓ GREATER IMAGING AREA

