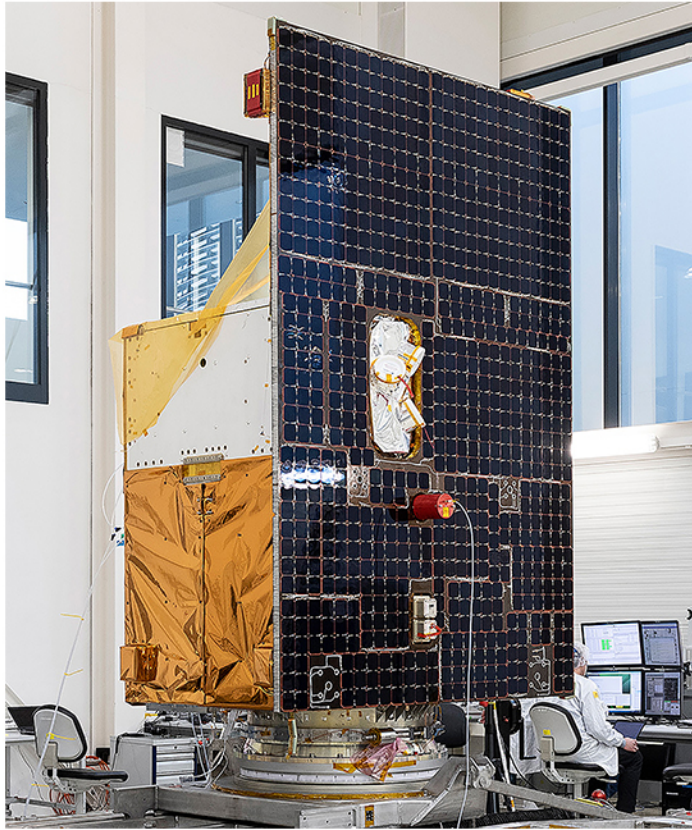


EnMAP (Environmental Mapping and Analysis Program)



The Environmental Mapping and Analysis Program (EnMAP) mission is the first hyperspectral satellite developed and built in Germany. With its two spectrometers, it analyses the solar radiation reflected from Earth's surface at wavelengths ranging from visible light to short-wave infrared – at a hitherto unparalleled spectral resolution. This information can be used to make precise statements about conditions on Earth's surface and how they are changing. Answers to current questions from the fields of environment and near-natural ecosystems, agriculture and forestry, land use, water management and quality, as well as mineralogy and geology, can then be obtained at various scales.

ENMAP WILL BECOME AN ENVIRONMENTAL OBSERVER FOR

- Forest management
- Agriculture
- Land Management
- Water Management

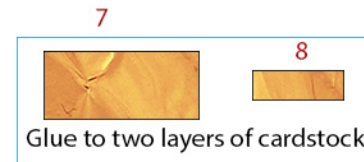
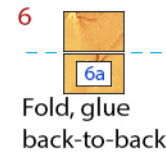
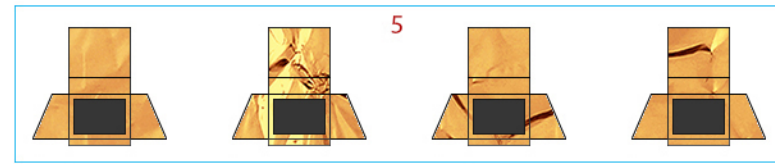
Understanding how light interacts with different materials — like plants, water or soil — makes it easier for researchers identify them and define their characteristics from a distance. The satellite's technology uses the nearly 250 different colors to more accurately and specifically determine the characteristics of the land or water it observes.

The spectrometers on the satellite first capture a photo of a section of the Earth below it. Rather than assigning the entire photo one color to categorize it, the satellite dissects each pixel of the photo and assigns each one its most appropriate color on the spectrum. This allows for historical precision.

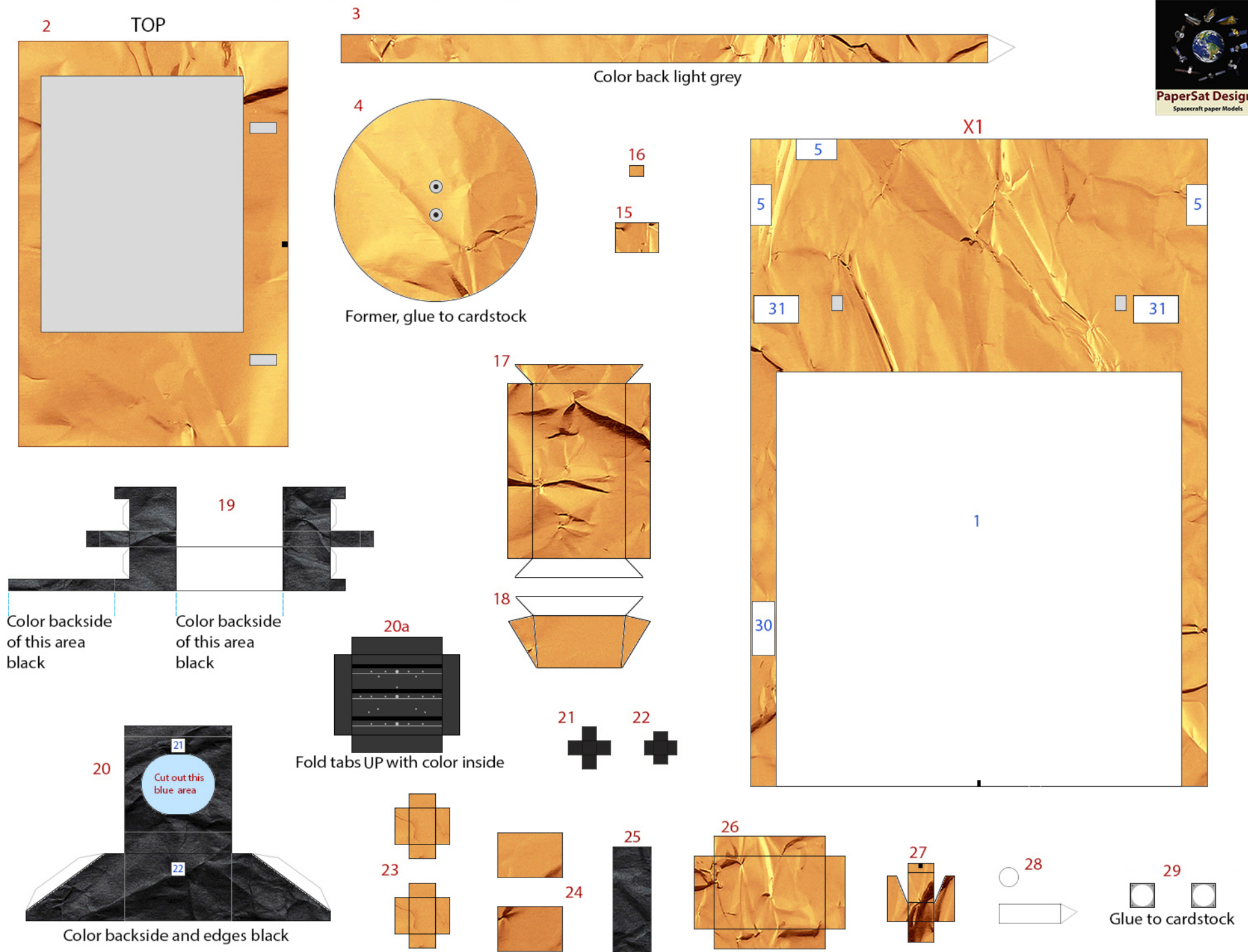
EnMAP was launched on the Transporter-4 dedicated rideshare mission of SpaceX on 1 April 2022 at 12:24 EDT (16:24 UTC) on a SpaceX Falcon 9 Block 5 vehicle from SLC-40 at Cape Canaveral Space Force Station, placing one relatively large satellite (EnMAP) and dozens of smallsats into low Earth orbit.



1



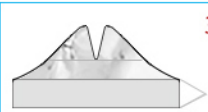
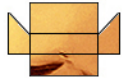
EnMAP (Environmental Mapping and Analysis Program)



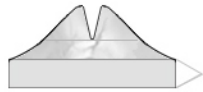
EnMAP (Environmental Mapping and Analysis Program)



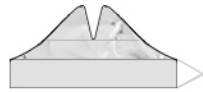
31



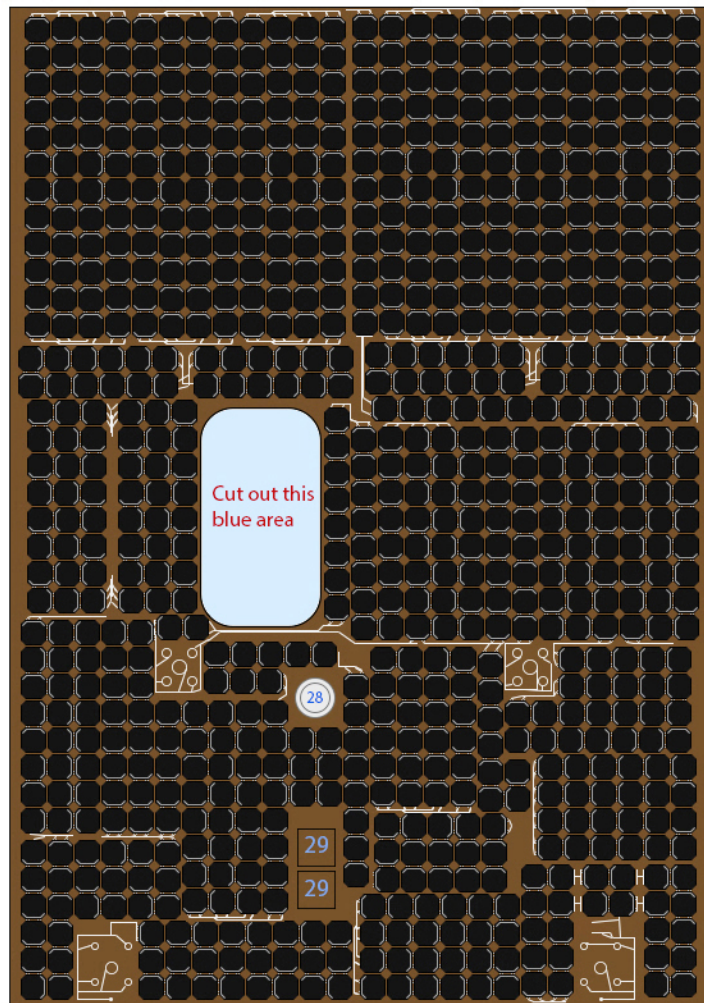
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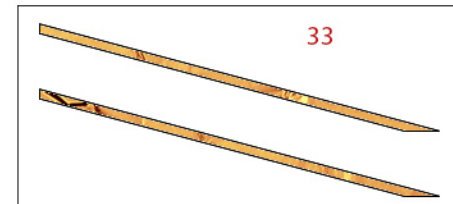
Color back Black



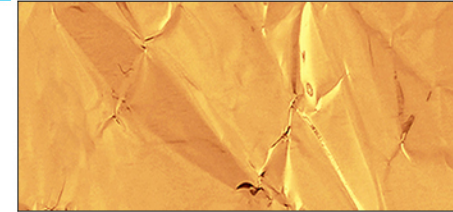
X2



Fold, glue back-to-back



33



X3

