

SkySat-4-21



The SkySat-C Generation Satellite Constellation currently consists of 21 micro satellites in orbit with the first satellite launch of SkySat-1 in 2013. SkySat was successfully lowered in orbit to collect 50cm high resolution satellite imagery from its original 80cm imagery. Planet Lab, operator of the SkySat-C Generation micro satellites will continue to provide enhanced ortho products to their customers globally.

SkySat-C satellites are the first commercial earth observation satellites manufactured by Planet Lab (formerly Terra Bella) and is licensed to collect 50cm high resolution multi-spectral satellite and 0.81m panchromatic imagery for various applications in energy, defense, agriculture, forestry and environmental monitoring. The satellites operate in a polar inclined, circular orbit at approximately 400 km above the earth.

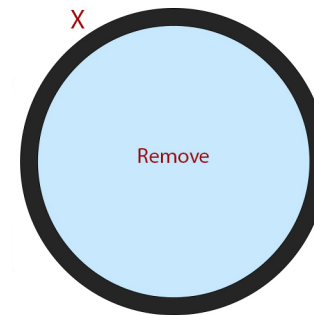
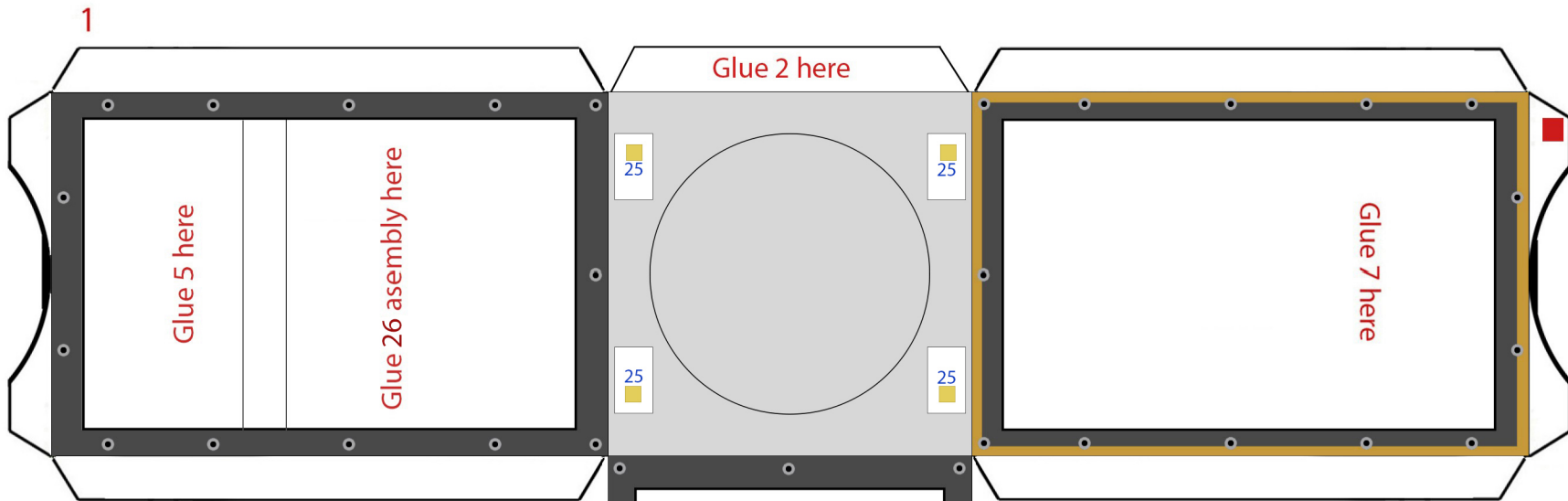
SkySat captures up to 90-second video clips at 30 frames per second. The resolution is high enough to view objects like shipping containers that impact the global economy while maintaining a level of clarity that does not determine human activity.

SkySat also captures some of the highest quality color imagery of any commercial satellite and is capable of 50cm natural color and near-infrared imagery.

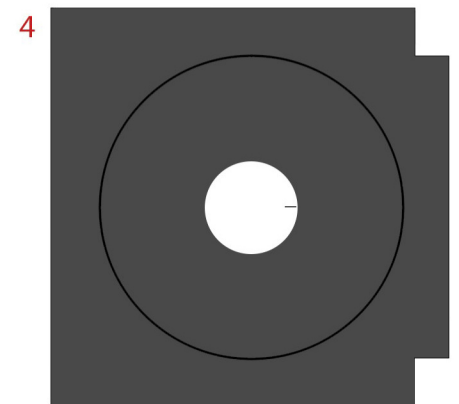
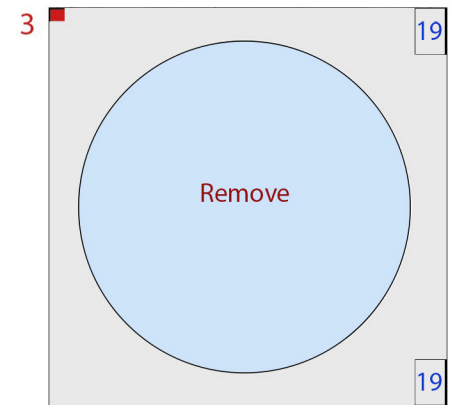
The first SkySat satellite was launched on November 21, 2013 from Yasny, Russia aboard a Dnepr rocket. The second identical satellite SkySat-2 satellite was launched as a secondary payload on a Soyuz-2-1b Fregat-M July 8, 2014.

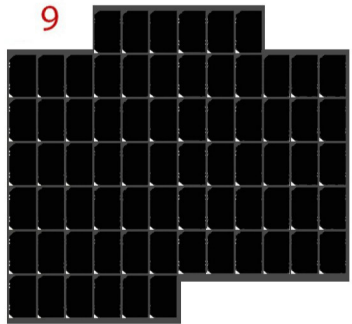
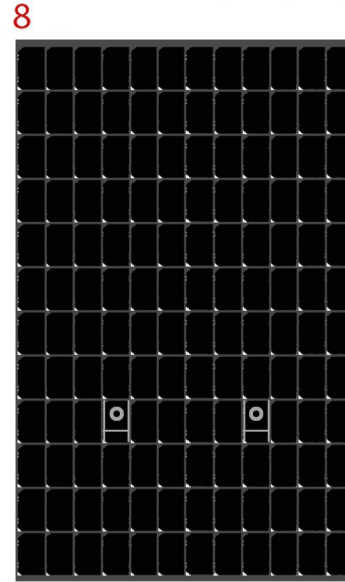
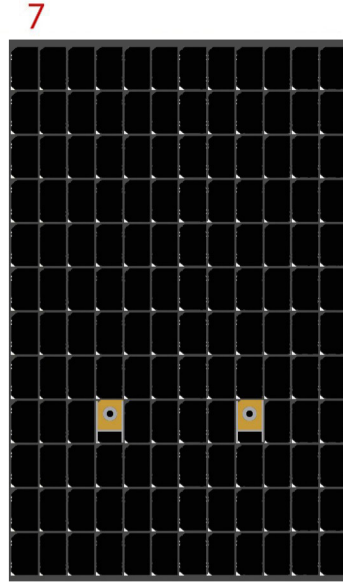
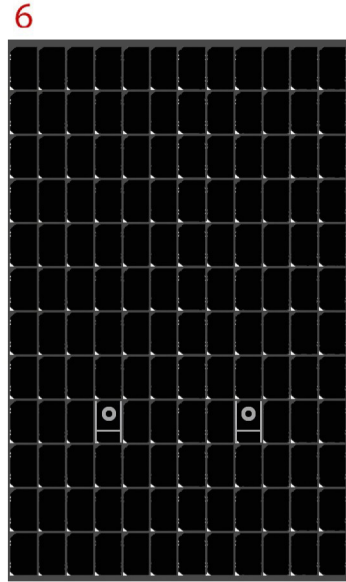
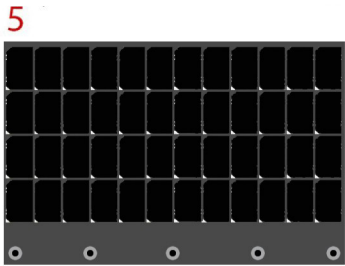
The first two Skysat satellites (Skysat-1 and Skysat-2) are A and B Generations, the other 19 satellites are modernised C Generation satellites. Six of the C-Generation SkySat satellites (from Skysat-16 to Skysat-21) were launched into non-sun-synchronous orbits to increase the image cadence between 52 degrees northern and southern latitude up to 6-7 times per day on worldwide average, with a maximum of 12.

The SkySat satellites are based on the CubeSat concept, using inexpensive automotive grade electronics and fast commercially available processors, but scaled up to approximately the size of a minifridge. The satellites are approximately 80 centimetres (31 in) long, compared to approximately 30 centimetres (12 in) for a 3U CubeSat, and weigh 220 pounds (100 kg).

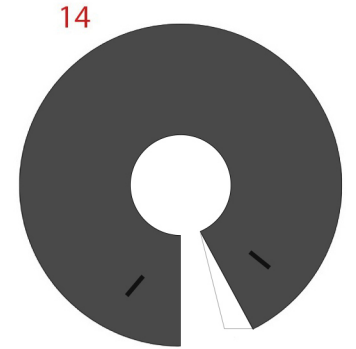


Glue to two layers
 of cardstock
 Cut out the blue
 circle

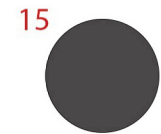
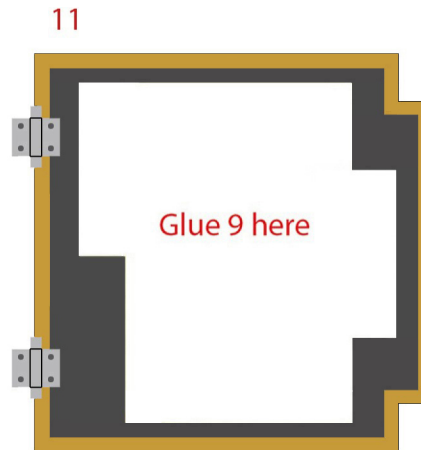
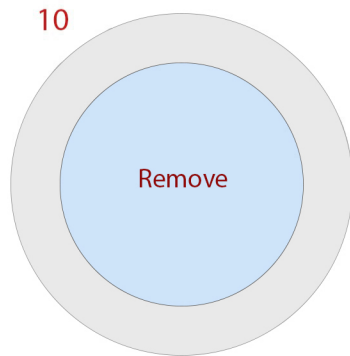
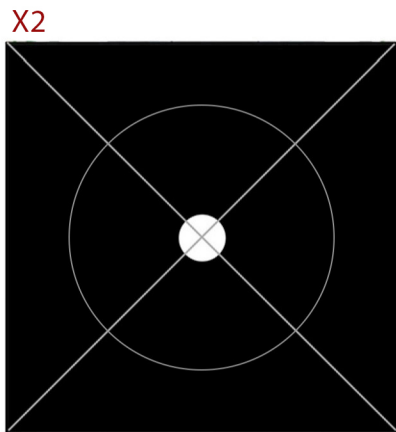




Glue the 5 solar panels to cardstock, color edges black



Color back Black, cut out the two black lines.



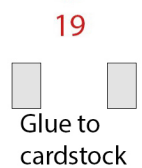
Glue 16 to backside of the square for color on both sides.



Roll into a ring with color inside

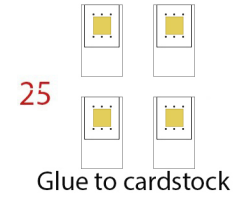
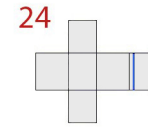
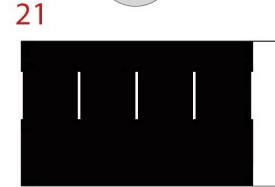
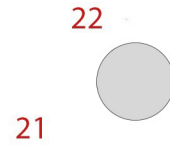


Color back black

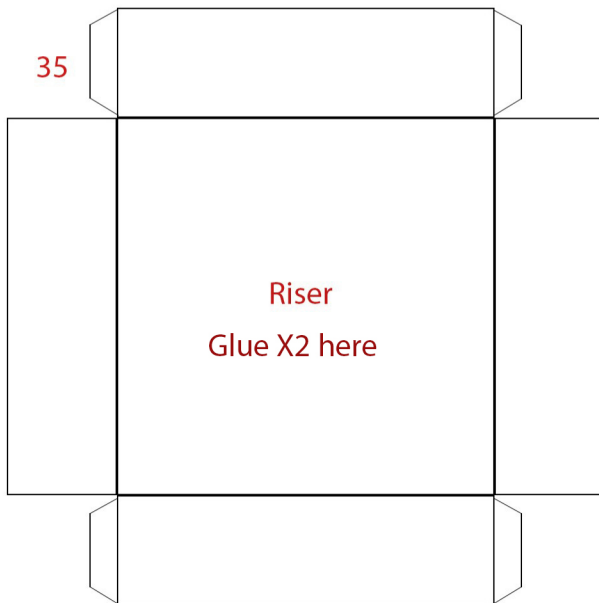
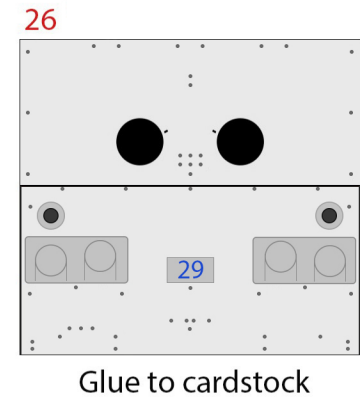


Glue to cardstock

20 Roll into a tube, color inside.



Glue each of these to thick cardstock, color backside and edges black



Need 4 plastic broom straws, painted grey or silver, 3mm long.

