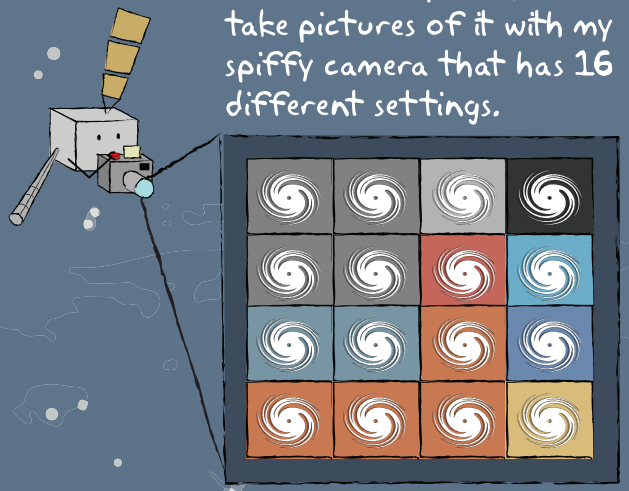
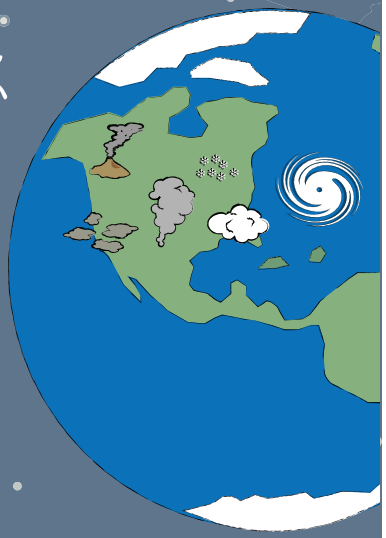
I'm GOES-R. I'm a new, high-tech weather satellite.

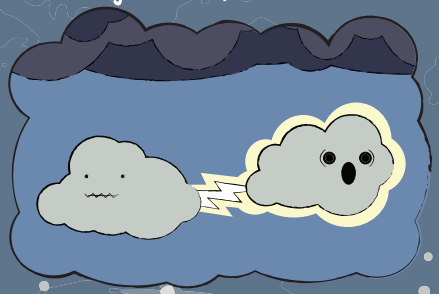
I can see a lot of cool stuff from up here, and I take pictures of it with my spiffy camera that has 16 different settings.

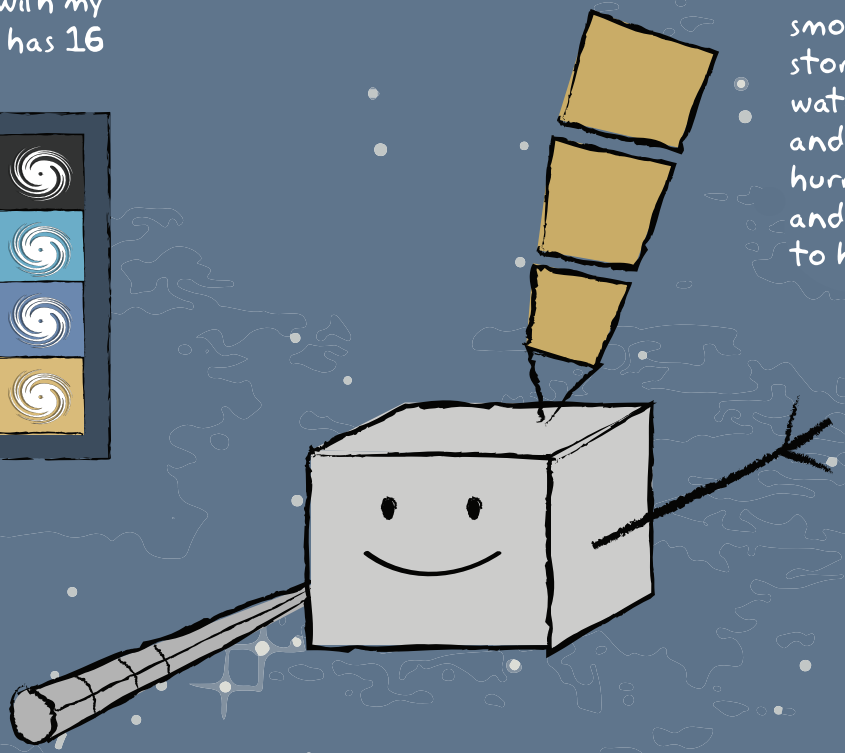


I can see clouds, snow, smoke, and ash. When storms are brewing, I watch them closely and help with hurricane, tornado, and flood warnings to help keep you safe.

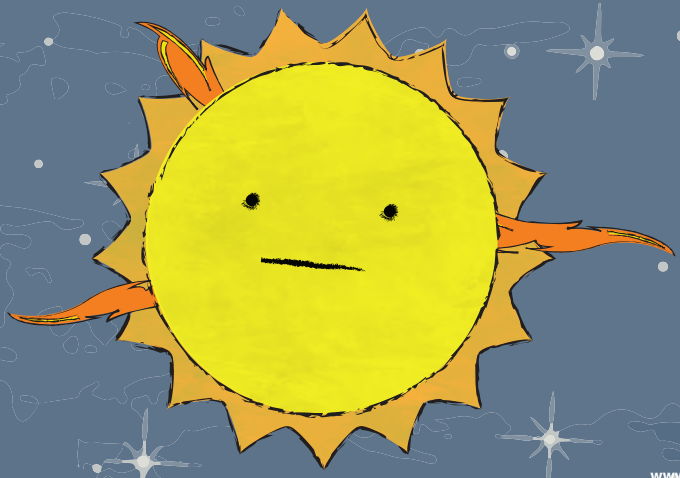


My new lightning mapper will track lightning strikes way up in the sky, even through dark, dense clouds.





I watch the sun for big bursts of energy, which send waves of radiation toward earth that can affect power grids, damage satellites, and hurt astronauts working outside the International Space Station.



I help with search and rescue missions. I listen for distress signals from emergency beacons and tell search and rescue teams just where to find people who need help.