

GOES-16 Local Noon Cloud Free Image (a work in progress)

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Why

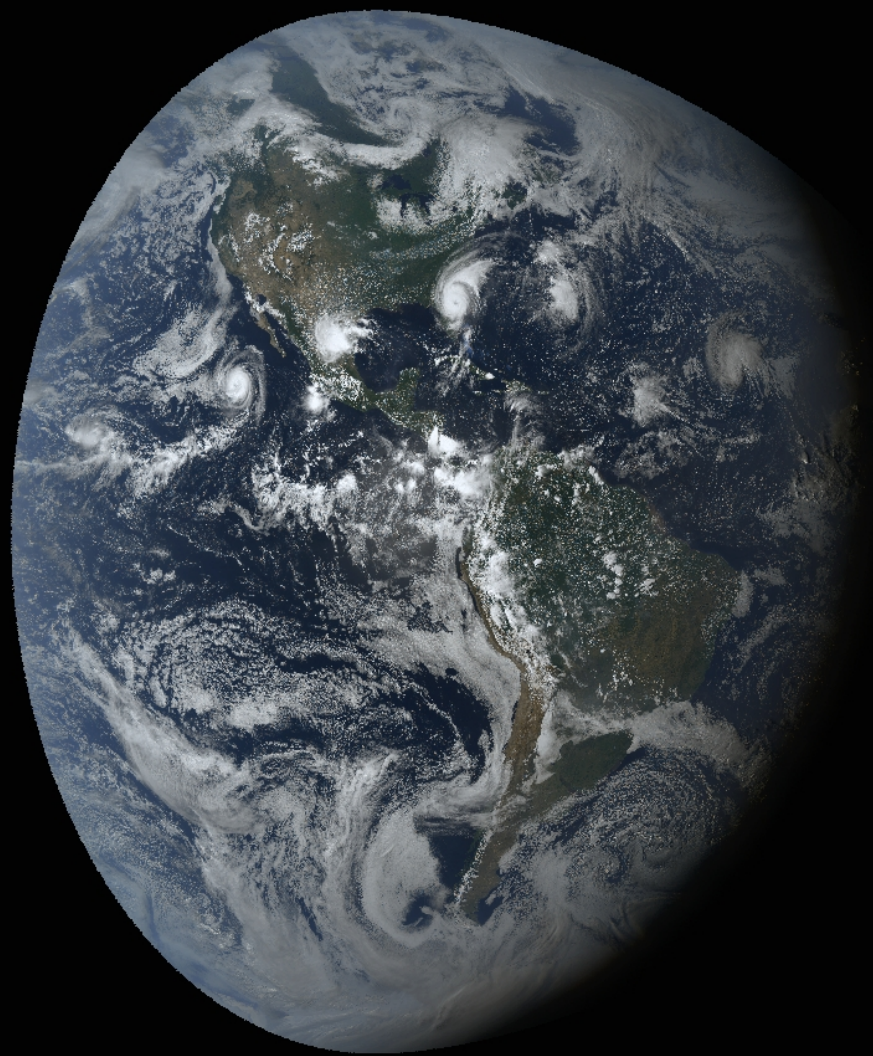
- Create a GOES-16 specific basemap – replacing Big Blue Marble
- Watch seasonal changes in land features
- Technique used for compositing of GOES-16/17
- Because its cool!

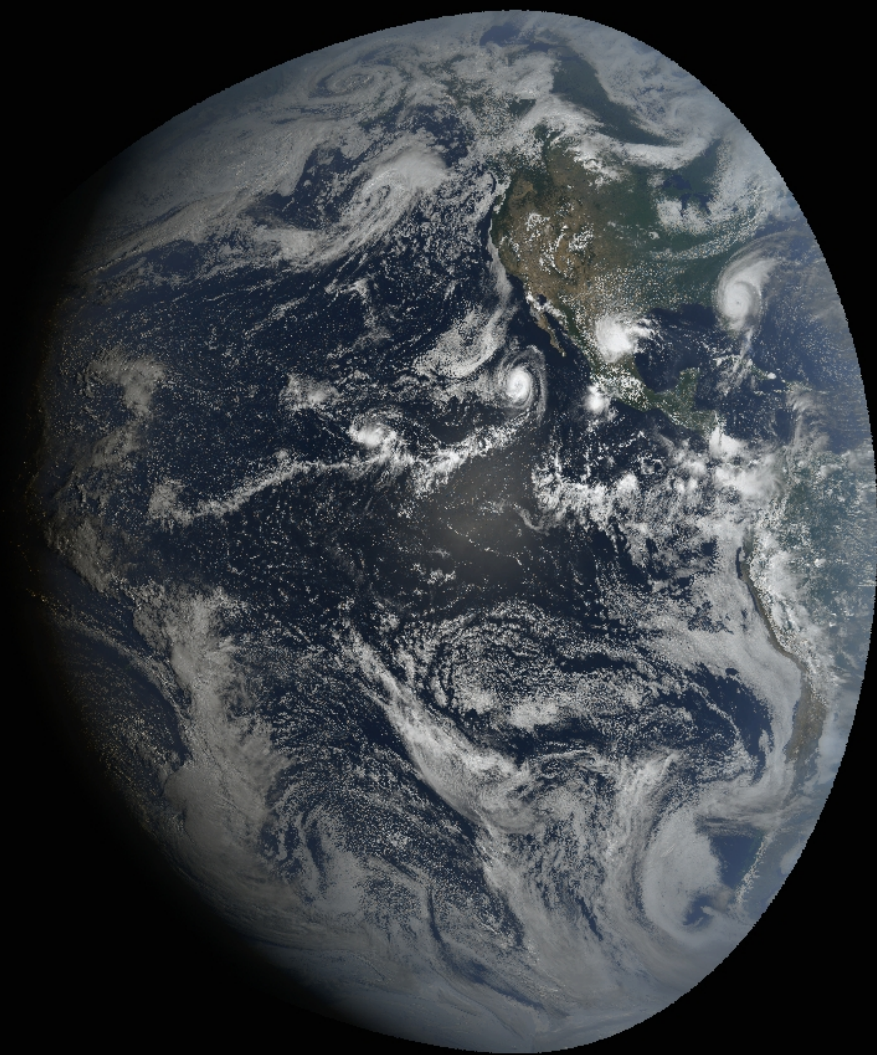
How

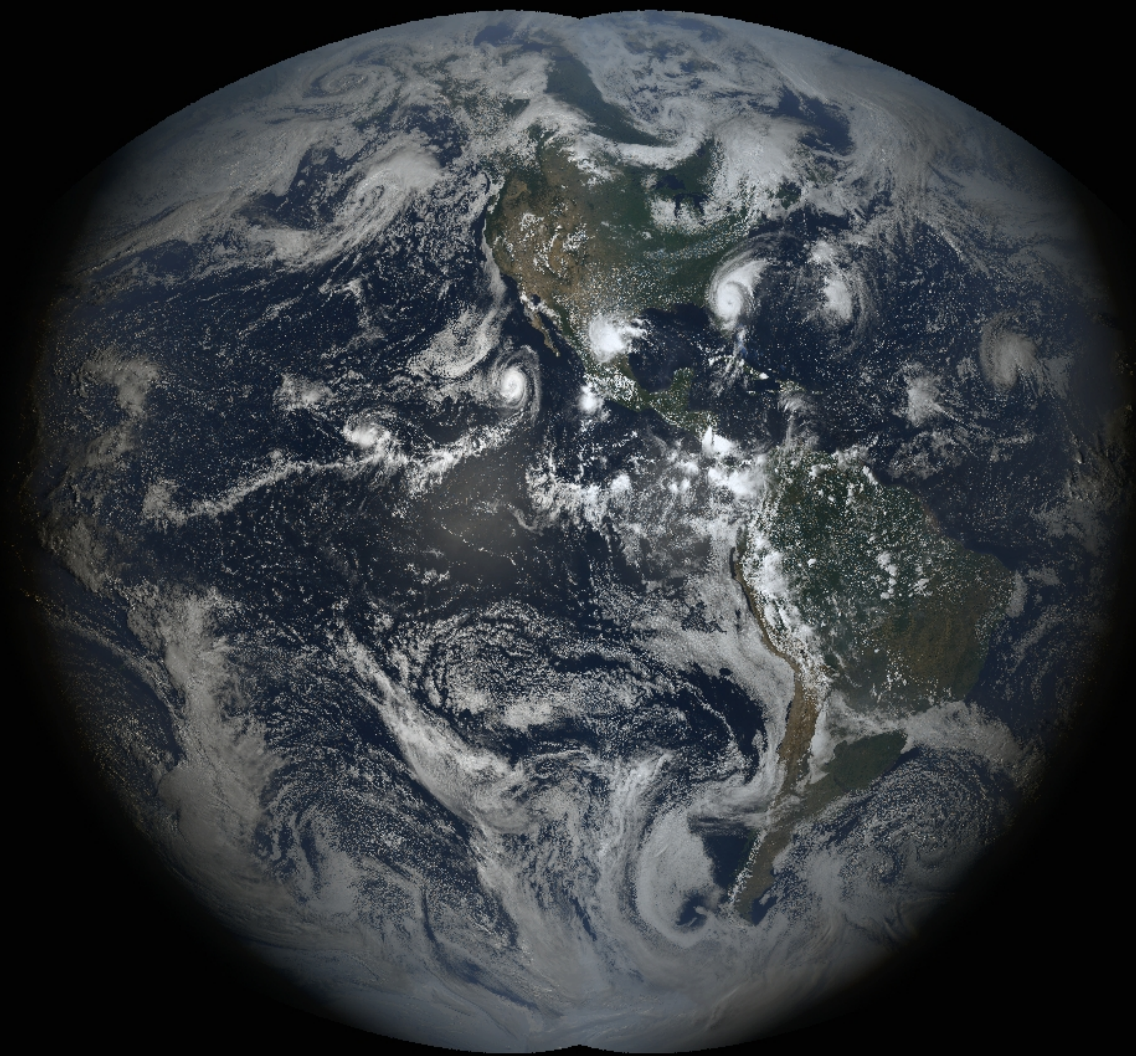
- Stretched GOES-16 RGB images
- CSPP-GEO AITF / STAR Cloud Mask / ACHA
- Sectorize each image
- Composite sectors
- Apply Cloud Mask to RGB images
- Update with Cloud Free Pixels

What Next

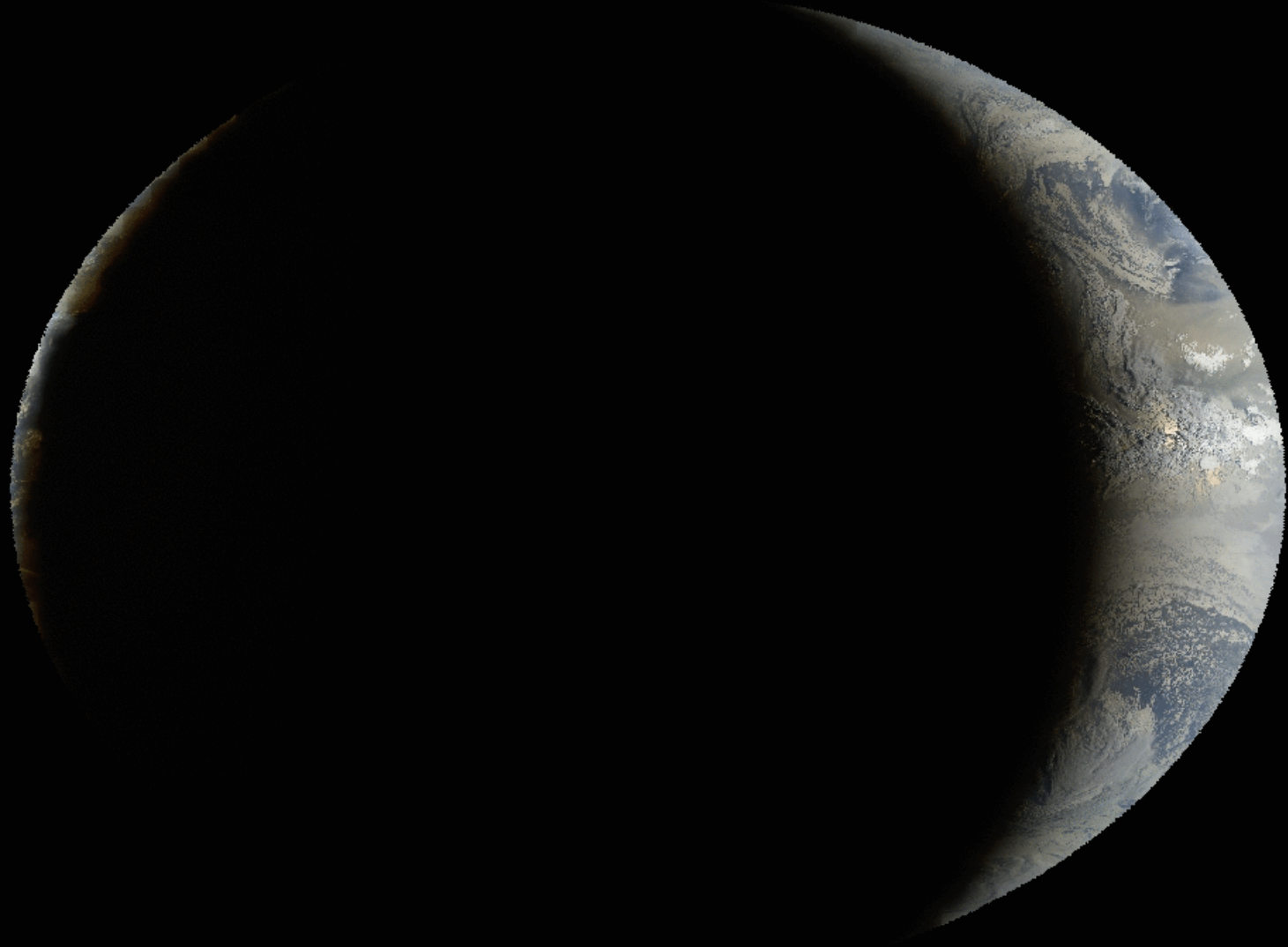
- Continue work with GOES-17
- Correct offset – ACHA group has 4 categories instead of binary cloud/no cloud
- Basemap for Day/Night products – replace Big Blue Marble







Forward/Backward Scattering





First attempt at Local Noon

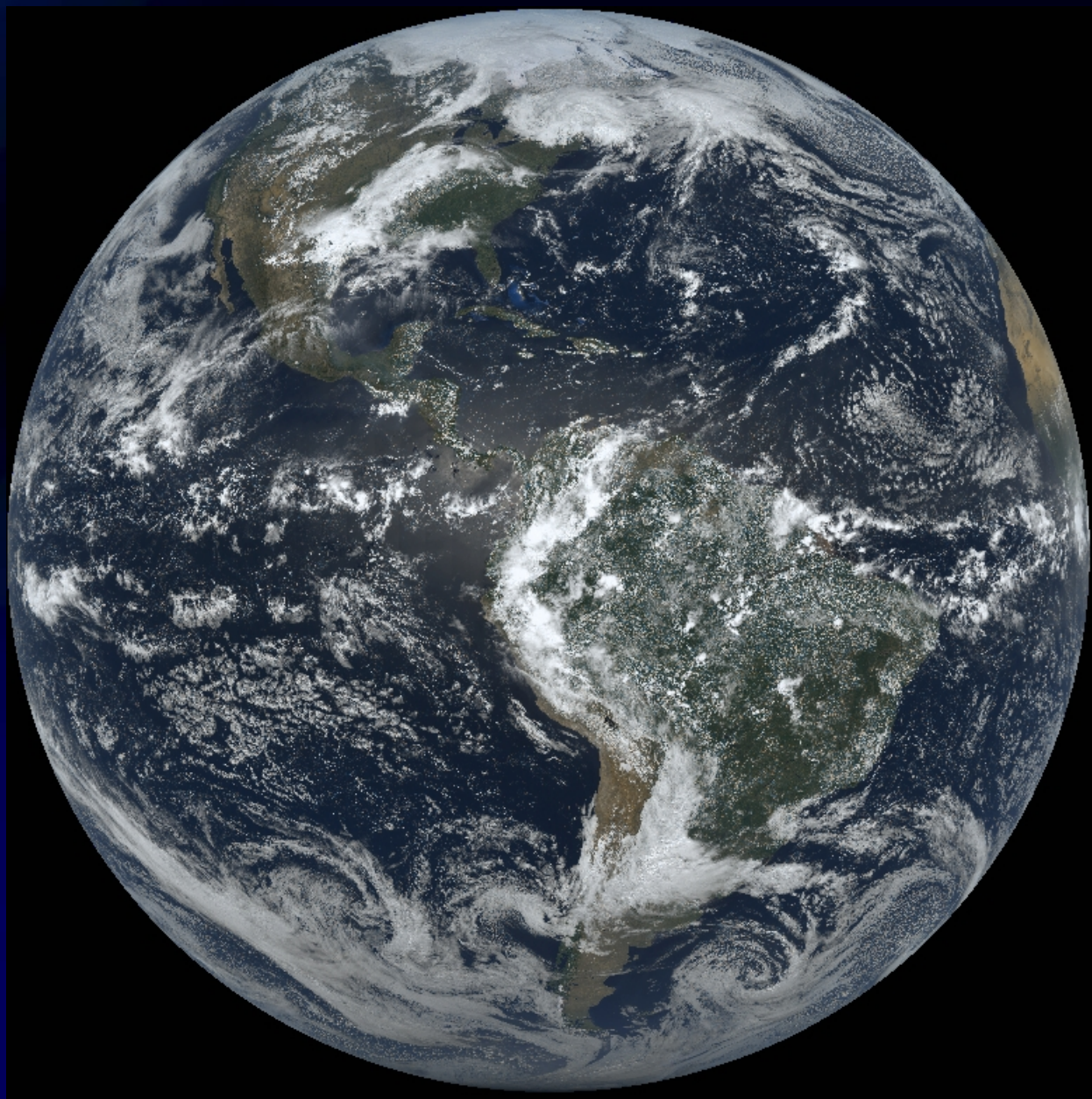




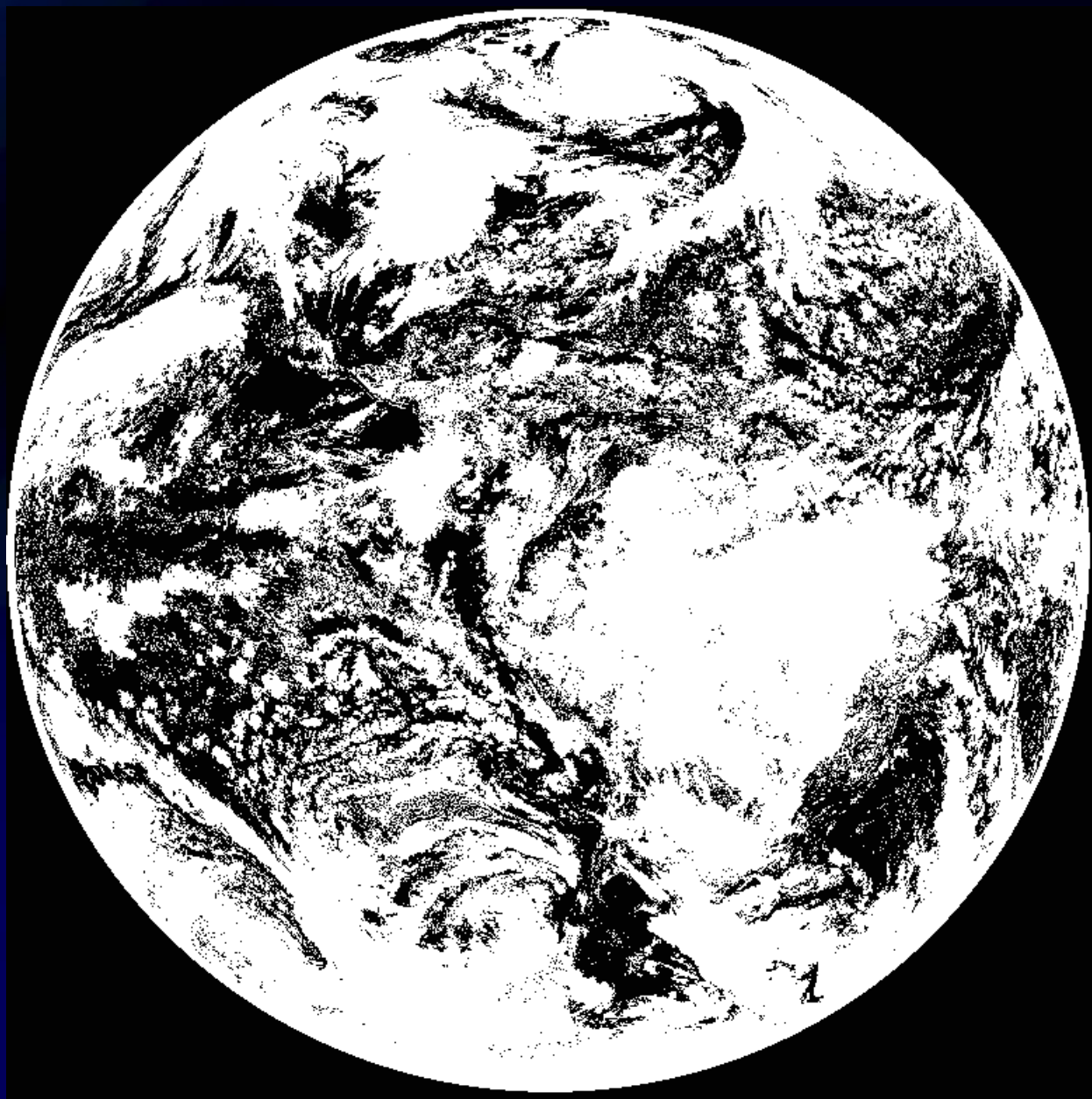
Local Noon Probe



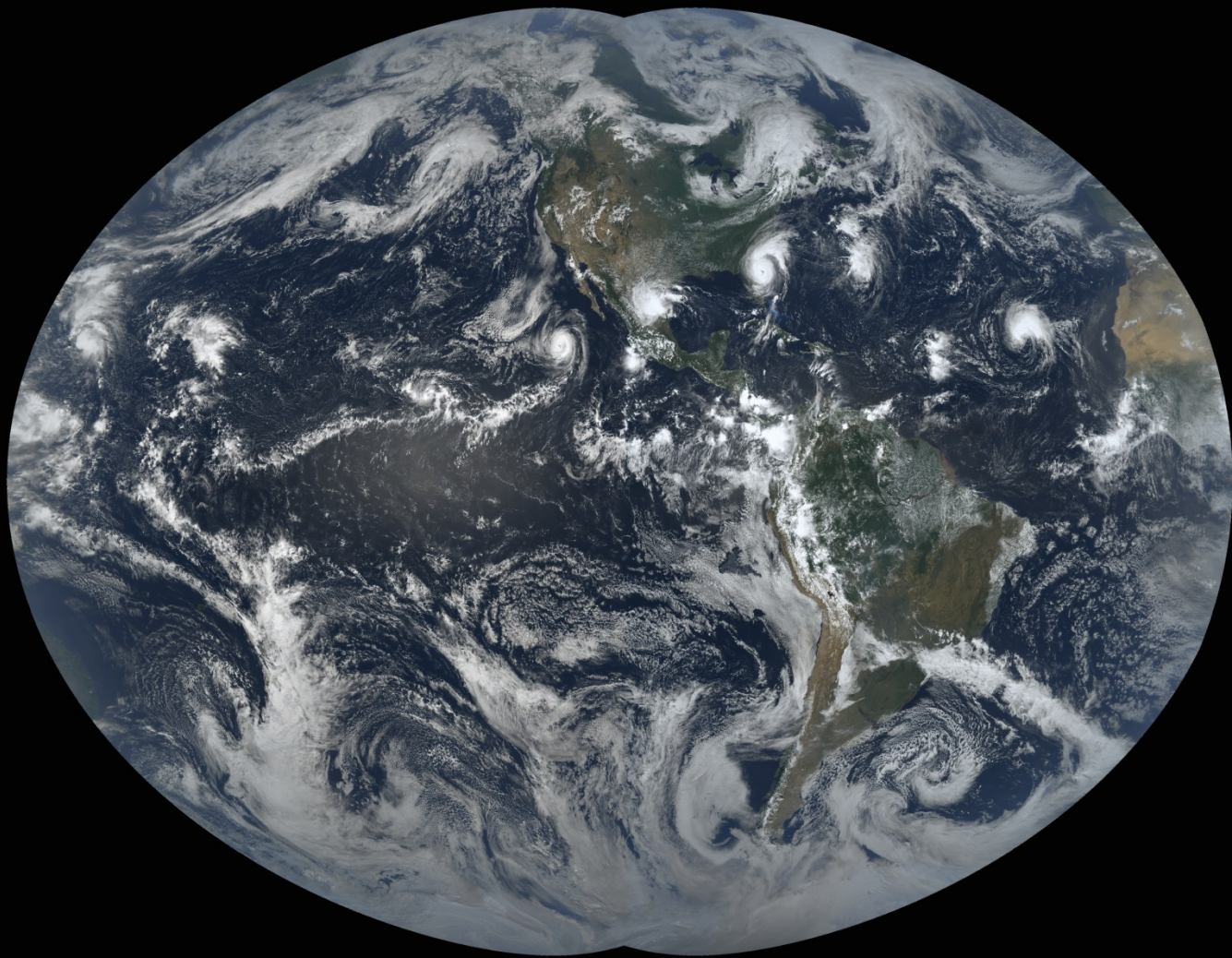




Local Noon Stretched RGB



Local Noon CSPP-GEO AIT Cloud Mask

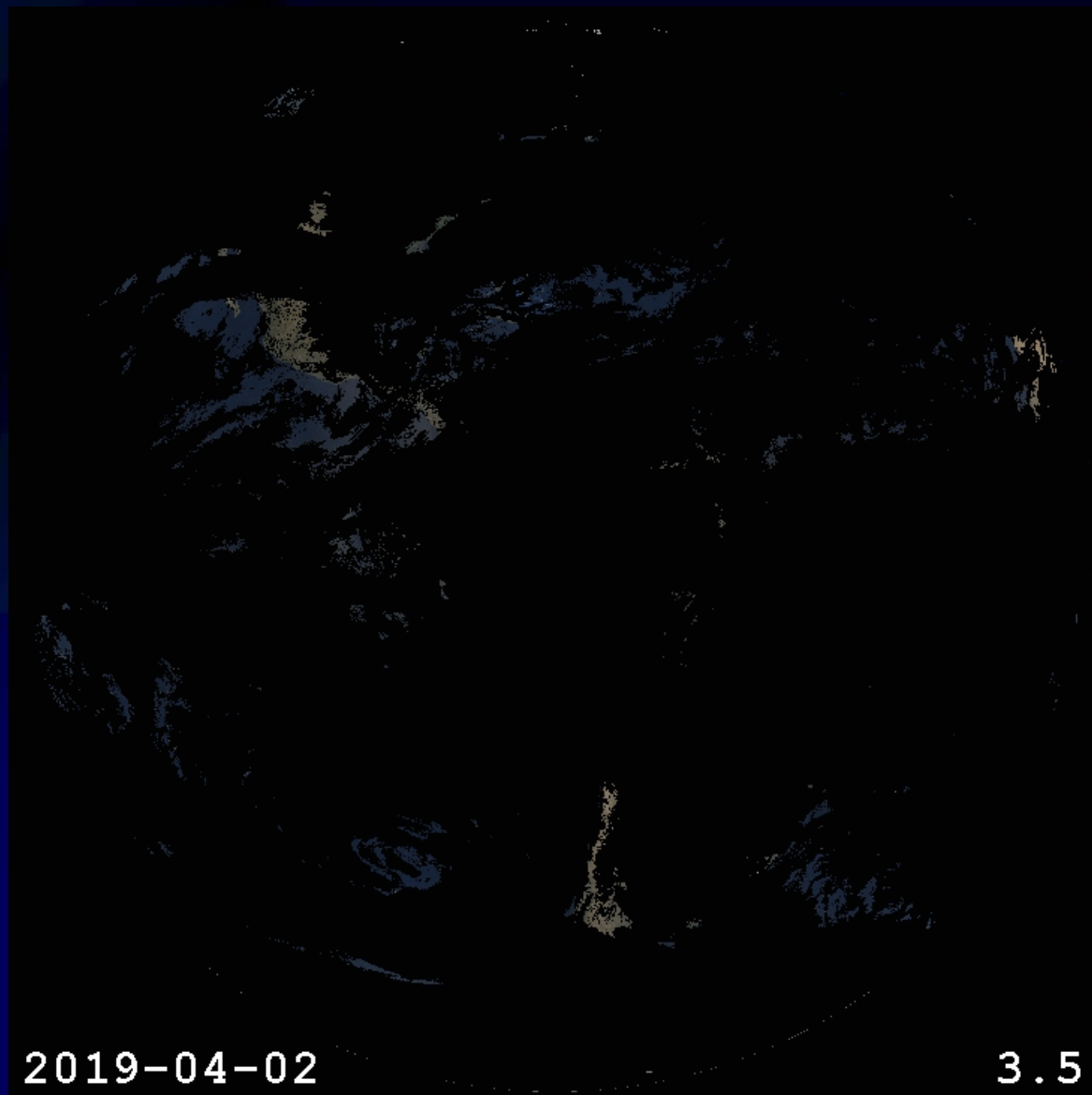


How

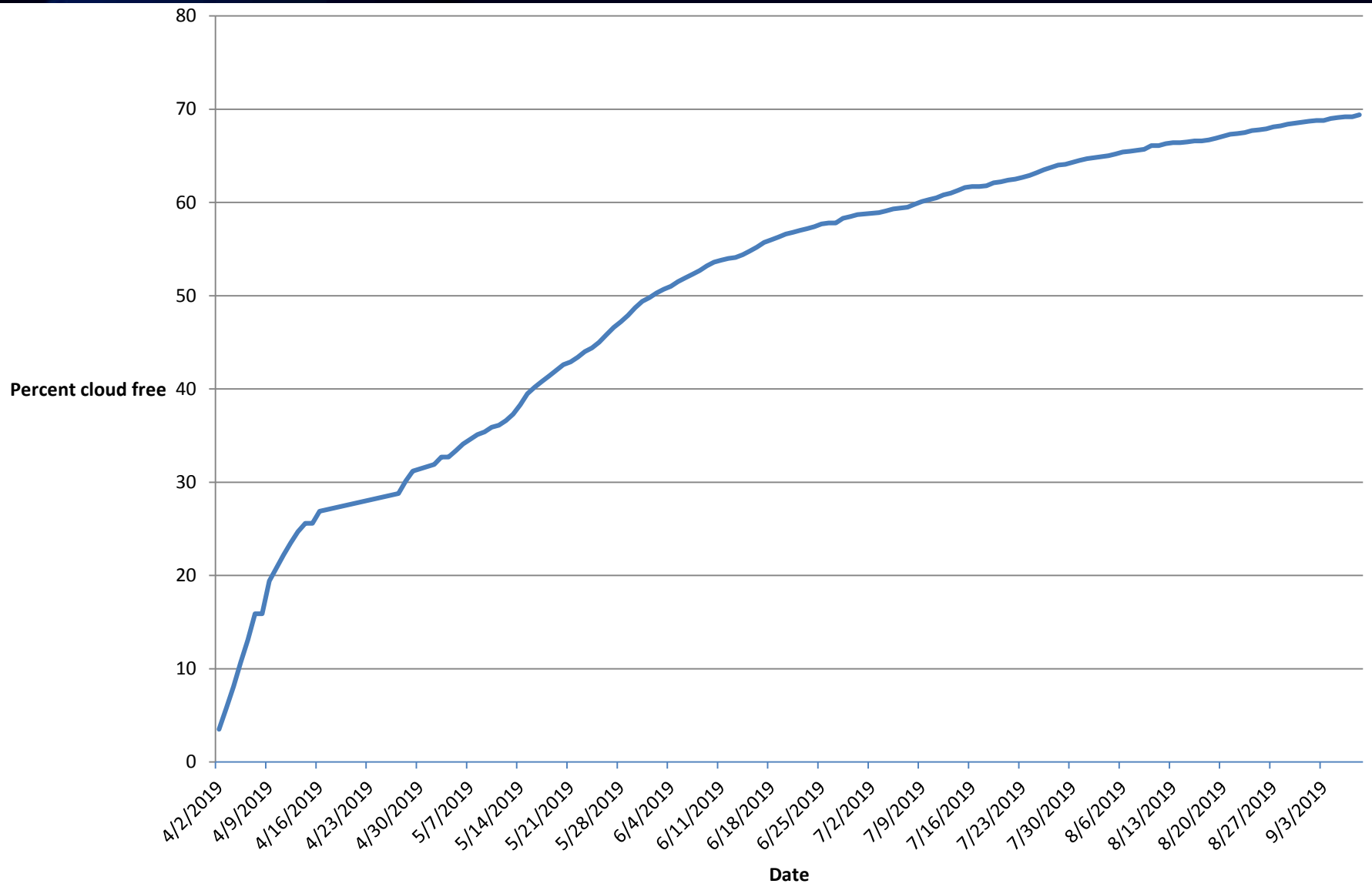
- **Stretched GOES-16 RGB images**
 - **Use amqpfind to listen for RabbitMQ messages from SDS**
 - **Starts McIDAS code (python)**
 - **Copy graphics to web**
 - **Copies AREA file to SDS**
 - **End of the day – create composite for RGB and cloud mask**

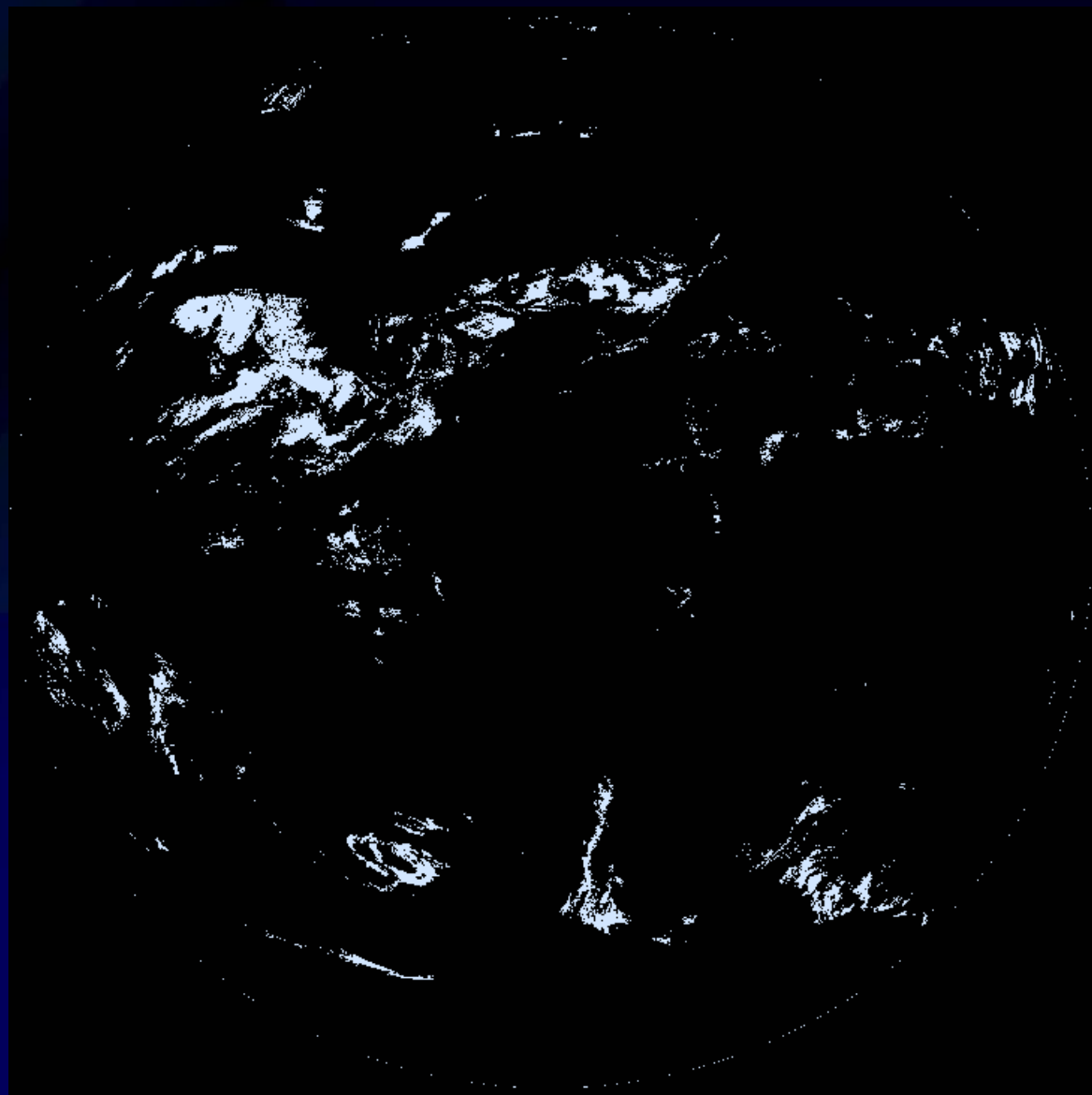
amqpfind – utility to listen to RabbitMQ messages from SDS

<https://www.ssec.wisc.edu/datacenter/amqpfind/>



Local Noon RGB with Cloud Mask





Pixel age

