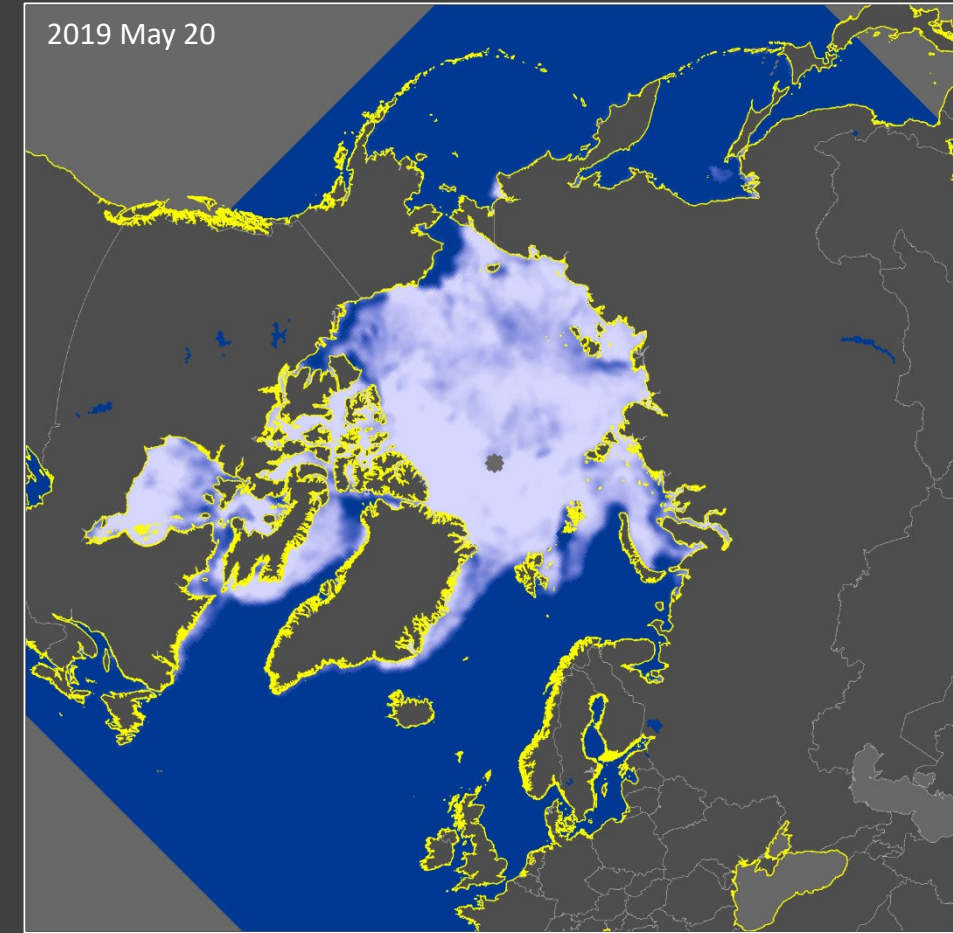
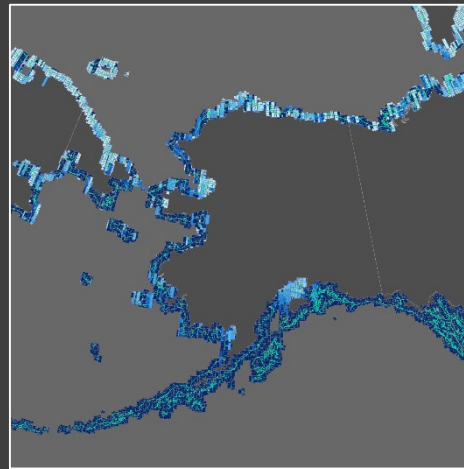


# Coastline Imagery Selection

To automatically determine imagery suitable for automated coastline production, which will both inform imagery ordering as well new tasking.

Suitable imagery:

- Cloudcover <= 20%
- Multispectral (WV02 or WV03)
- Lower off-nadir angle (if stereopair)
- Within 10km of a priori coastline
- Sea-ice concentration\* <= 20%\*\* (Arctic, Antarctic under development)

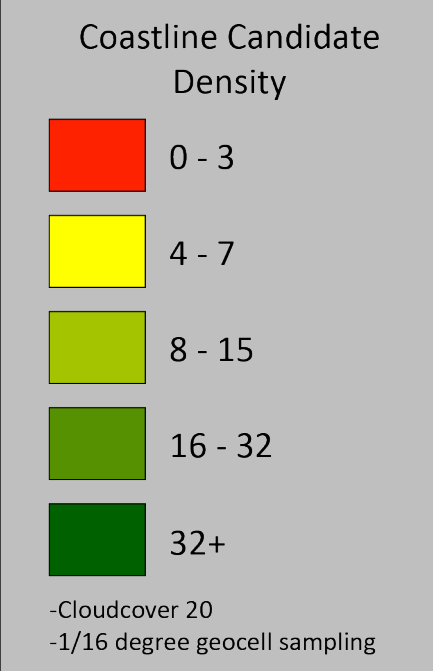
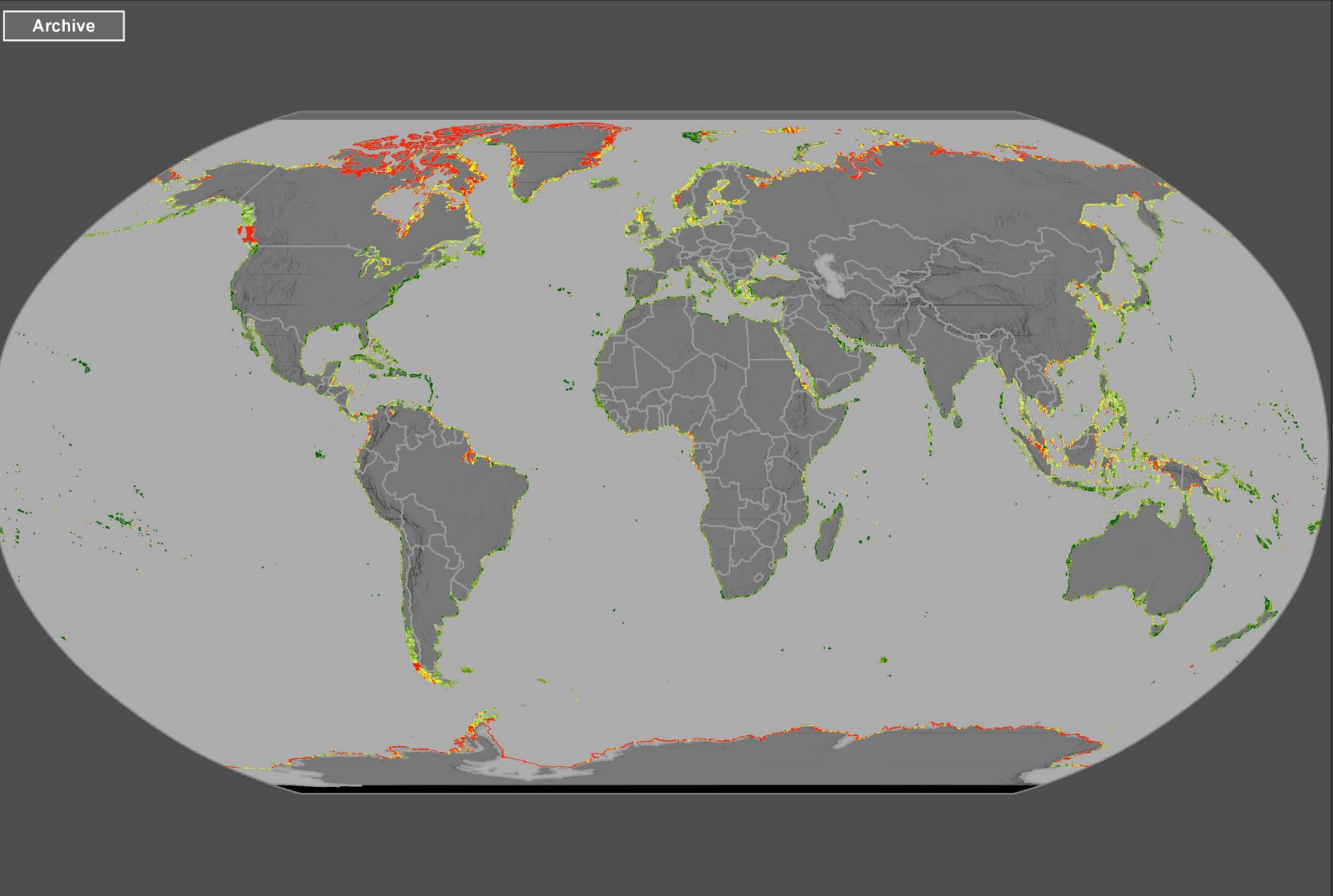


\*for each footprint, a sea-ice concentration % is determined by sampling the associated daily NSDIC sea-ice concentration over the footprint

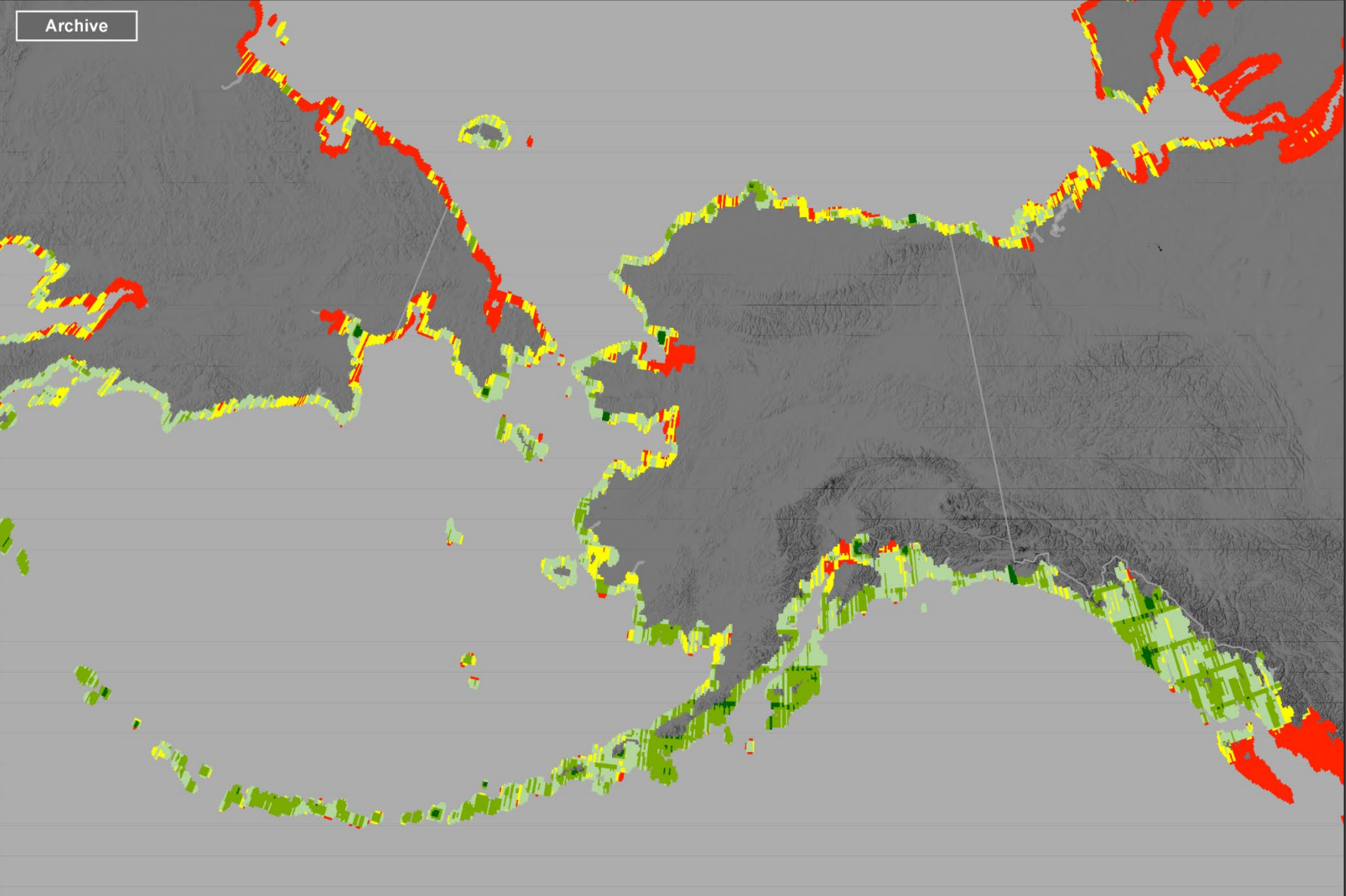
\*\*still testing appropriate concentration

scene_id	sensor	acq_time	sea_ice_pa	sea_ice_co
▶ WV02_20181001002946_1030010084A4F000_18OCT01002946-M1BS-502898551070_01_P002	WV02	2018-10-01	C:\Users\disbr007\projects\coastline\noa sea_ice\resampled_nd\daily\geotiff\2018\10_Oct\W_20181001_concentration_v3.0.tif	56.8
WV02_20181001002947_1030010084A4F000_18OCT01002947-M1BS-502898551070_01_P003	WV02	2018-10-01	C:\Users\disbr007\projects\coastline\noa sea_ice\resampled_nd\daily\geotiff\2018\10_Oct\W_20181001_concentration_v3.0.tif	41.066666
WV02_20190401003453_103001008DB33C00_19APR01003453-M1BS-503084997020_01_P001	WV02	2019-04-01	C:\Users\disbr007\projects\coastline\noa sea_ice\resampled_nd\daily\geotiff\2019\04_Apr\W_20190401_concentration_v3.0.tif	97.95
WV02_20190401085559_103001008E05BF00_19APR01085559-M1BS-503085032060_01_P001	WV02	2019-04-01	C:\Users\disbr007\projects\coastline\noa sea_ice\resampled_nd\daily\geotiff\2019\04_Apr\W_20190401_concentration_v3.0.tif	2.4
WV03_20190520194841_104001004C434A00_19MAY20194841-M1BS-503207996060_01_P002	WV03	2019-05-20	C:\Users\disbr007\projects\coastline\noa sea_ice\resampled_nd\daily\geotiff\2019\05_May\W_20190520_concentration_v3.0.tif	16
WV03_20190520194942_104001004912C000_19MAY20194942-M1BS-503207941040_01_P005	WV03	2019-05-20	C:\Users\disbr007\projects\coastline\noa sea_ice\resampled_nd\daily\geotiff\2019\05_May\W_20190520_concentration_v3.0.tif	14.2

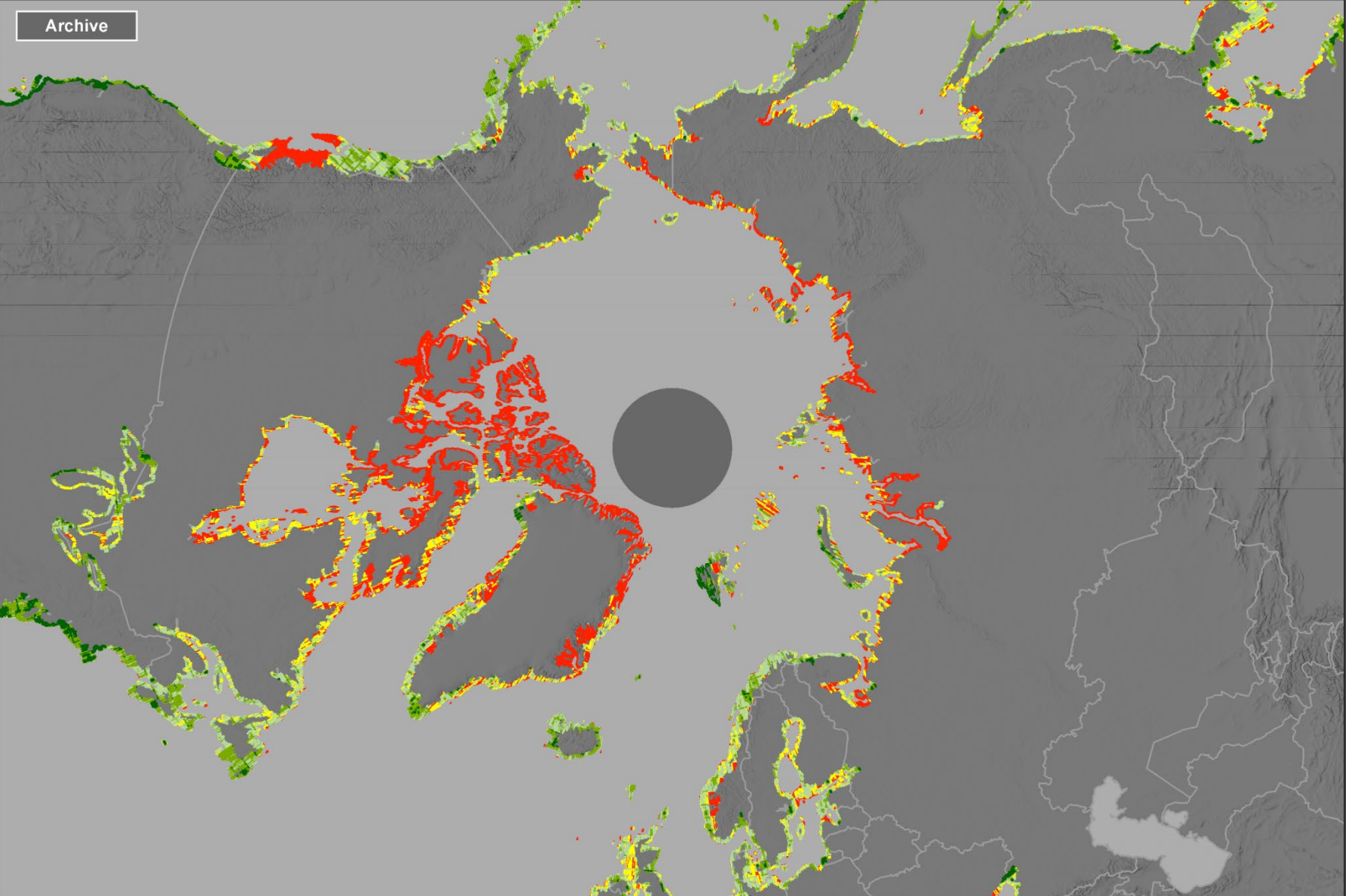
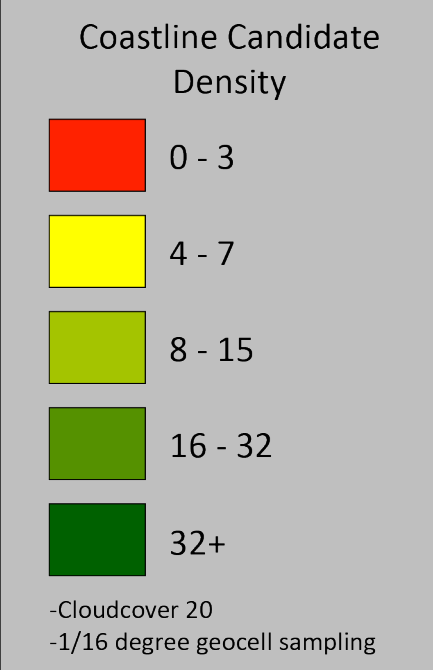
# Coastline Candidate Imagery Density



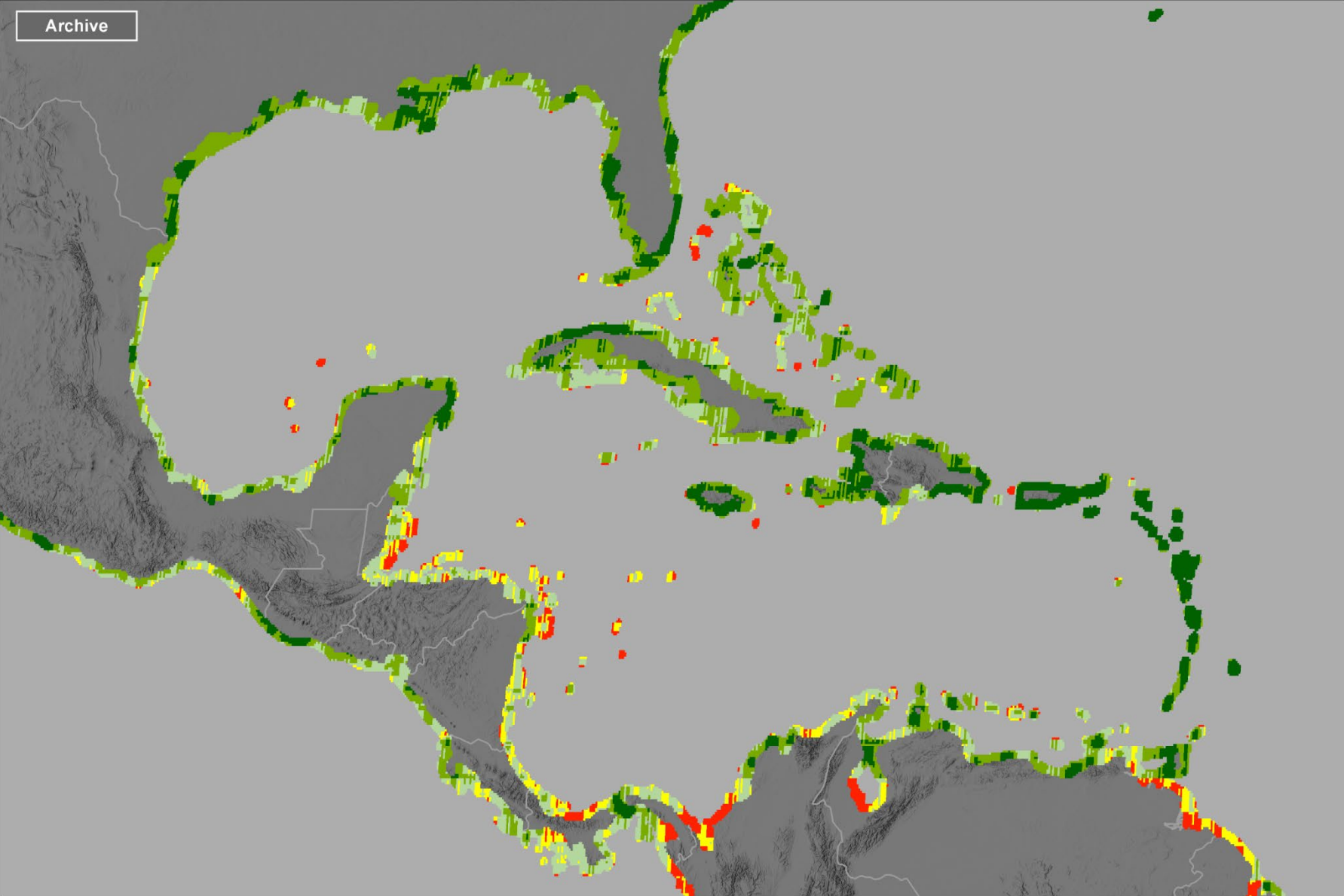
# Coastline Candidate Imagery Density



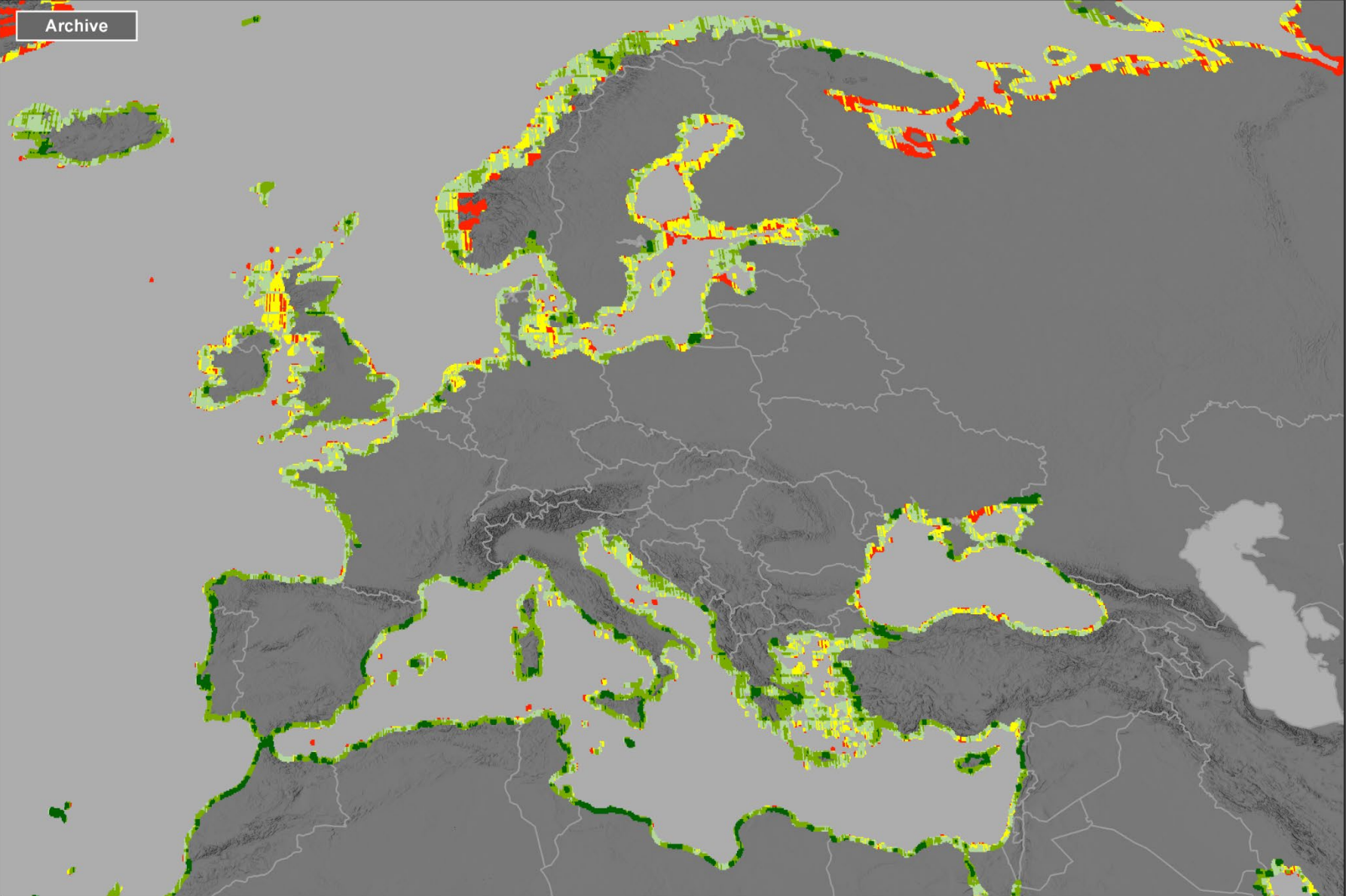
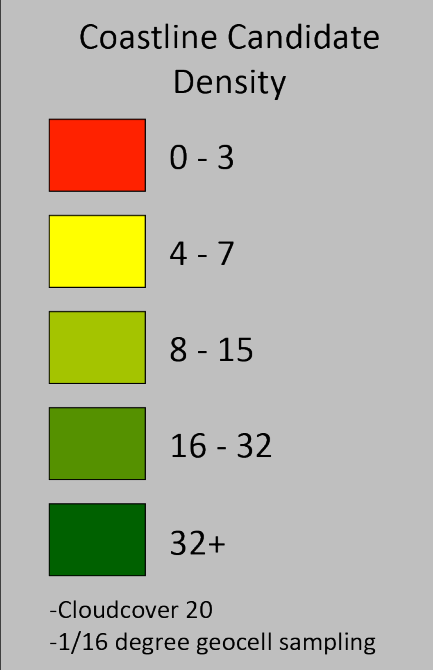
# Coastline Candidate Imagery Density



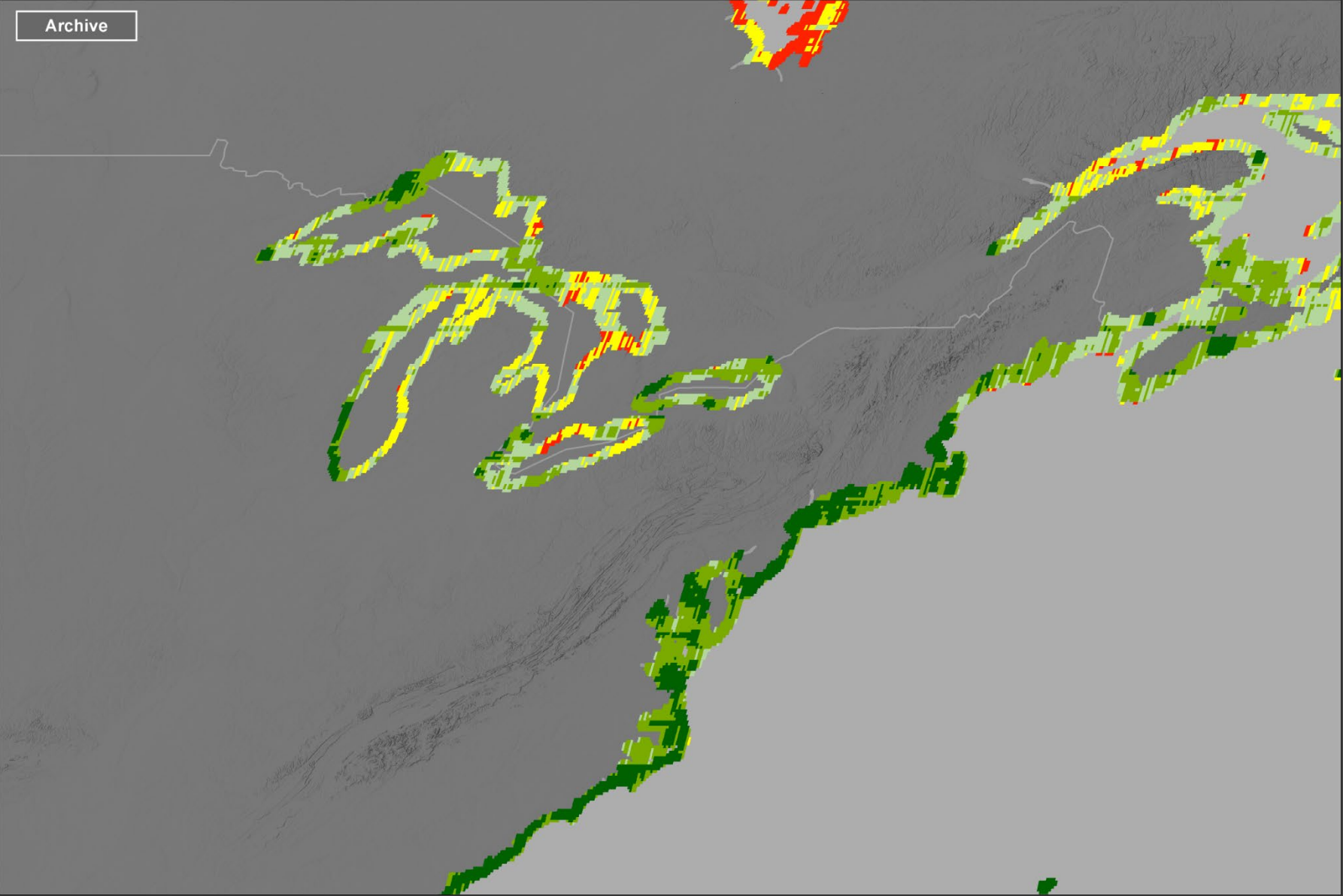
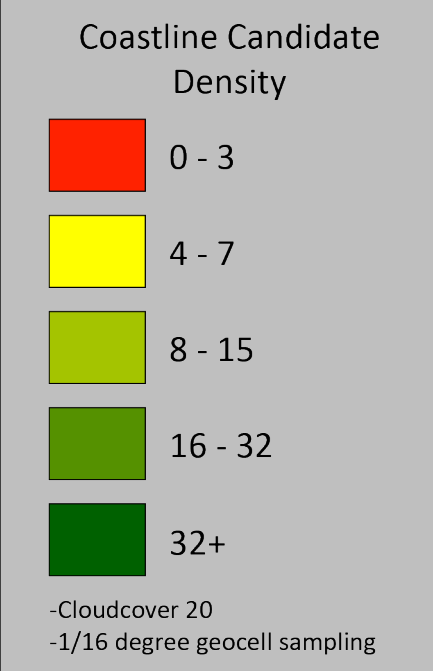
# Coastline Candidate Imagery Density



# Coastline Candidate Imagery Density



# Coastline Candidate Imagery Density



# Coastline Candidate Imagery Density

