Data Background (1) - Wavelengths and Time

- GOES-13, Bands 3-19

- 2012-10-18 to 2012-11-09
- 4 measurements per day, spaced 6 hours apart, starting at 02:20:16 UTC

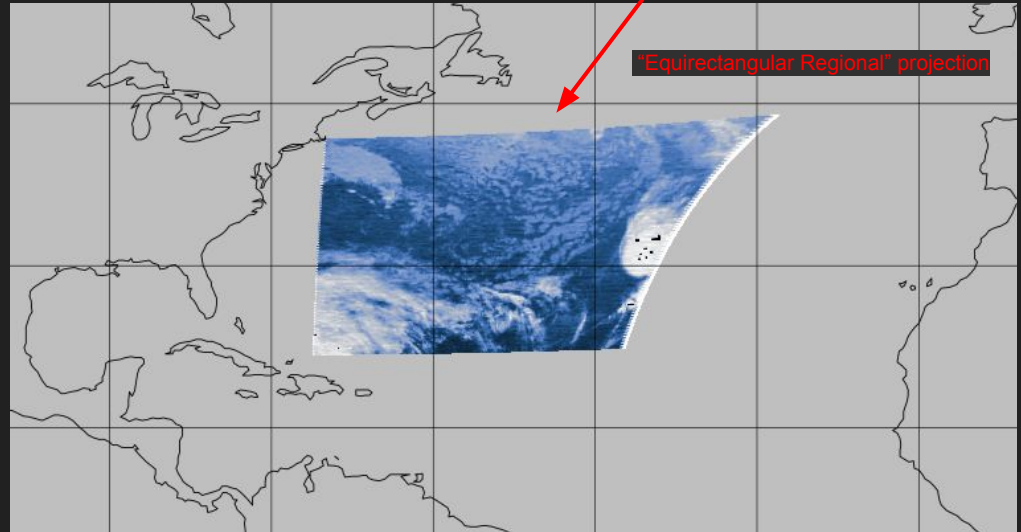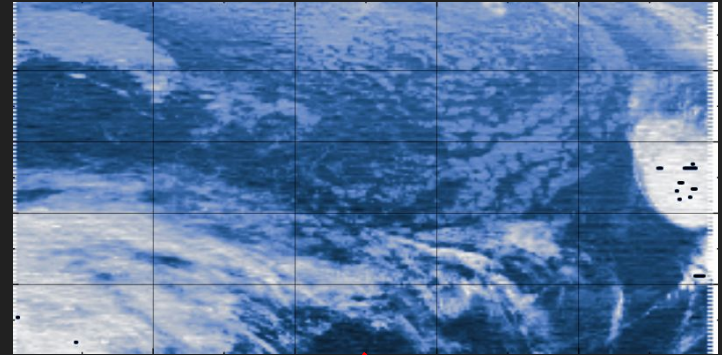**Table 4-3. Sounder Detectors Channel Allocation**

Detector	Channel No.	Wavelength, μm	Wave No., cm⁻¹	Meteorological Objective and Max. Temp. Range
Longwave	1	14.71	680	Temperature Sounding (space–260 K)
	2	14.37	696	Temperature Sounding (space–260 K)
	3	14.06	711	Temperature Sounding (space–270 K)
	4	13.64	733	Temperature Sounding (space–290 K)
	5	13.37	748	Temperature Sounding (space–300 K)
	6	12.66	790	Temperature Sounding (space–315 K)
	7	12.02	832	Surface Temperature (space–330 K)
Midwave	8	11.03	907	Surface temperature (space–335 K)
	9	9.71	1030	Total Ozone (space–310 K)
	10	7.43	1345	Water Vapor Sounding (space–300 K)
	11	7.02	1425	Water Vapor Sounding (space–285 K)
	12	6.51	1535	Water Vapor Sounding (space–265 K)
Shortwave	13	4.57	2188	Temperature Sounding (space–310 K)
	14	4.52	2210	Temperature Sounding (space–295 K)
	15	4.45	2245	Temperature Sounding (space–275 K)
	16	4.13	2420	Temperature Sounding (space–330 K)
	17	3.98	2513	Surface Temperature (space–335 K)
	18	3.74	2671	Surface Temperature (space–335 K)
Visible	19	0.70	14367	Cloud (visible)

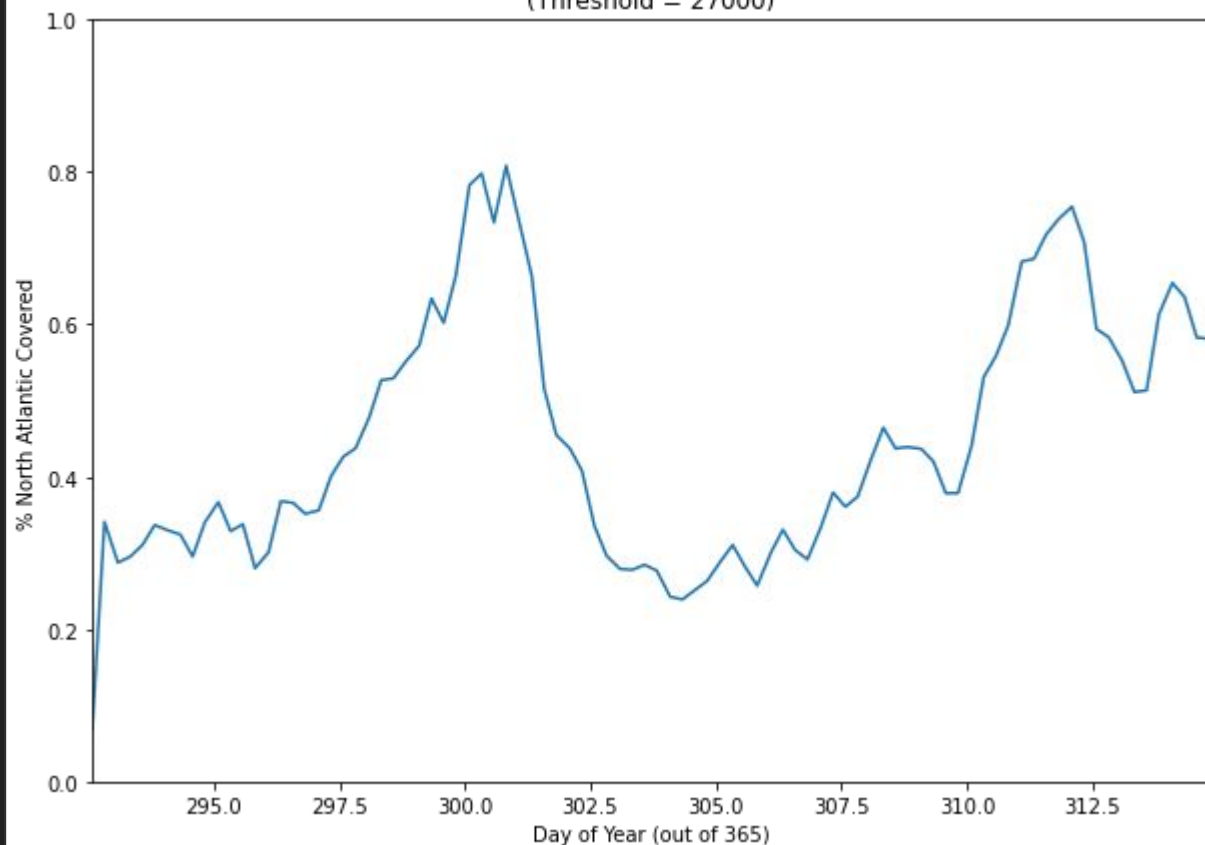Note: All channels have sufficient dynamic range to view the internal blackbody calibration target at 320 K.

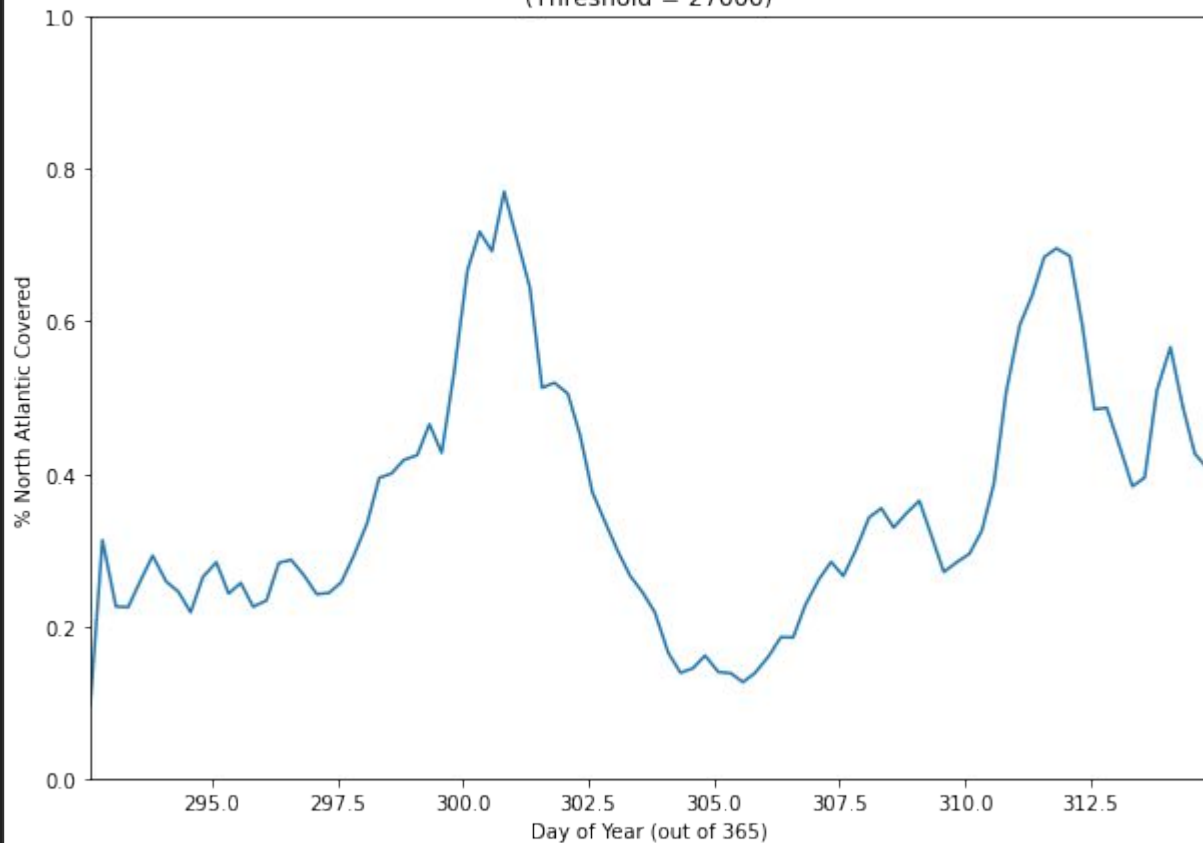Source (page 60). More wavelength info here

Data Background (2) - Spatial

- Latitude (degrees north)
  21.7 to 44.0
- Longitude (degrees east)
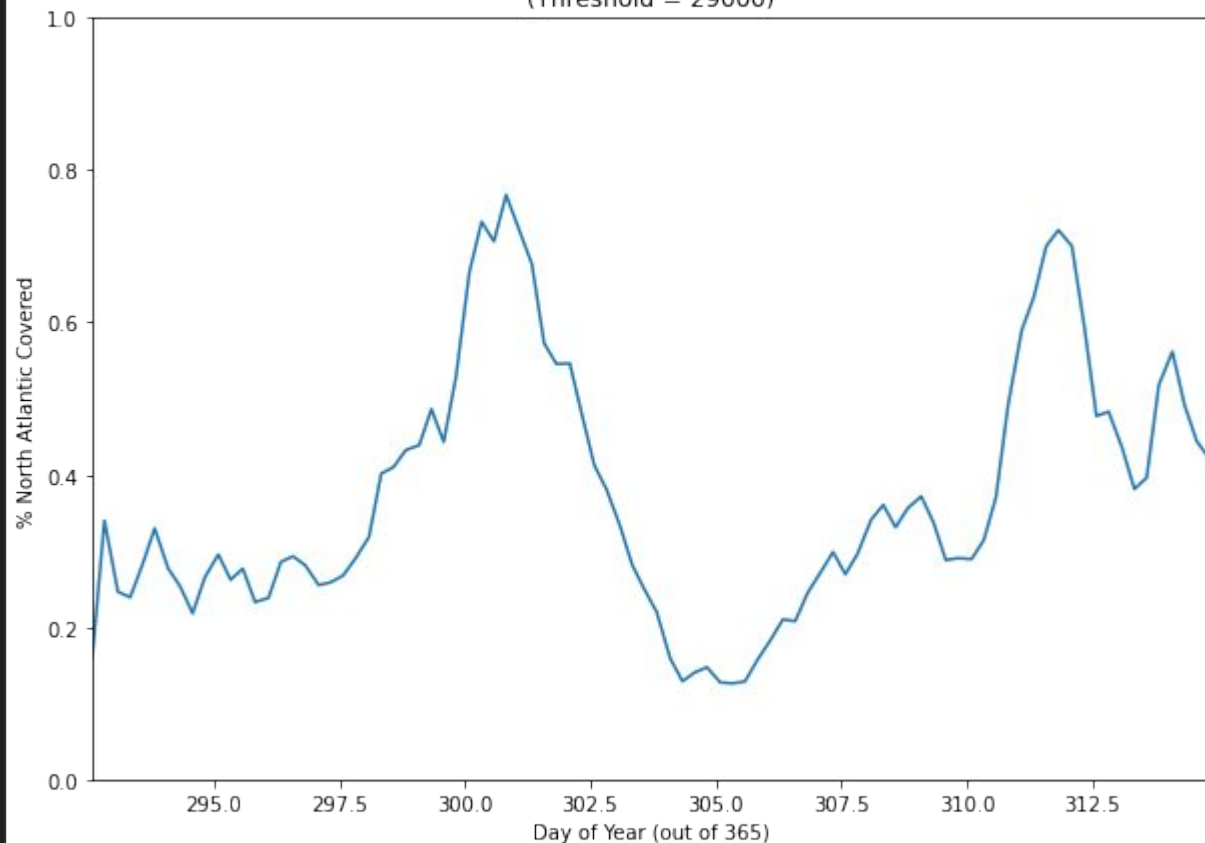 -71.2 to -27.8

"Equirectangular Regional" projection

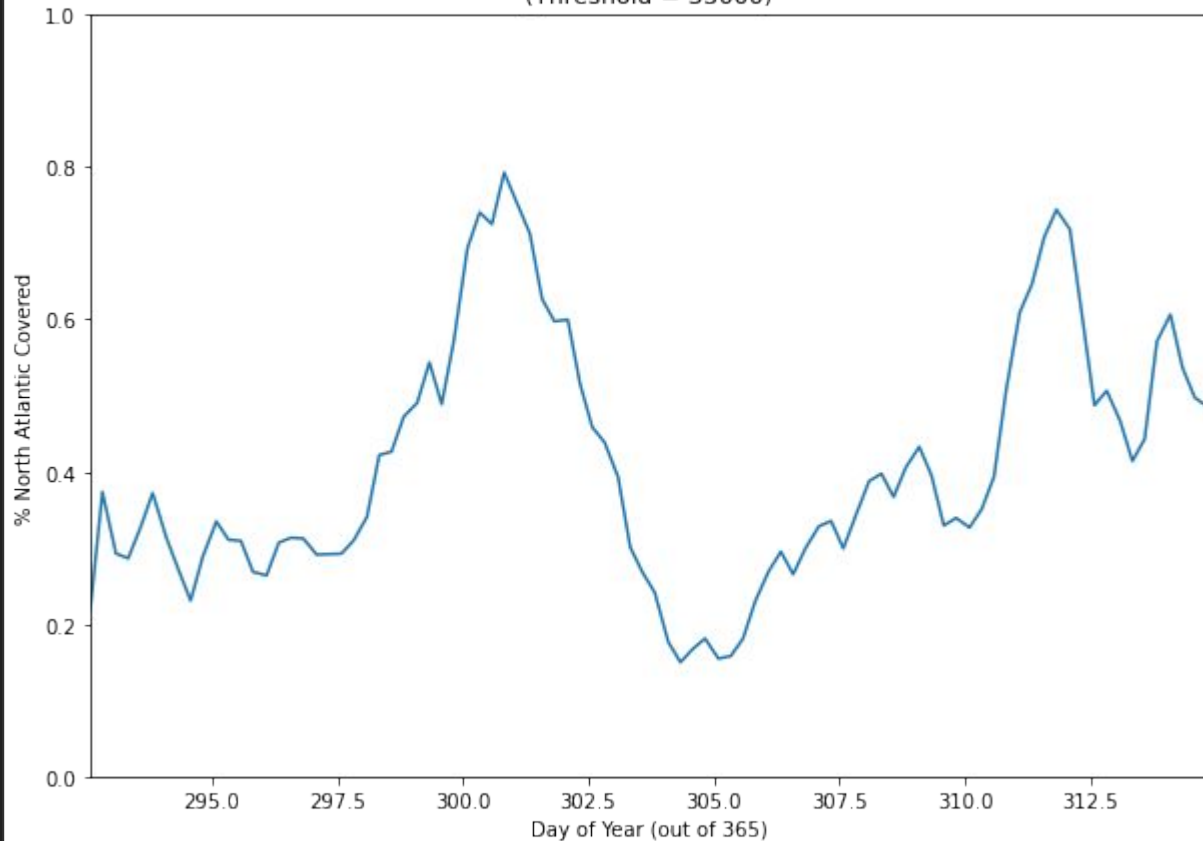Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_03 (Threshold = 27000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_04
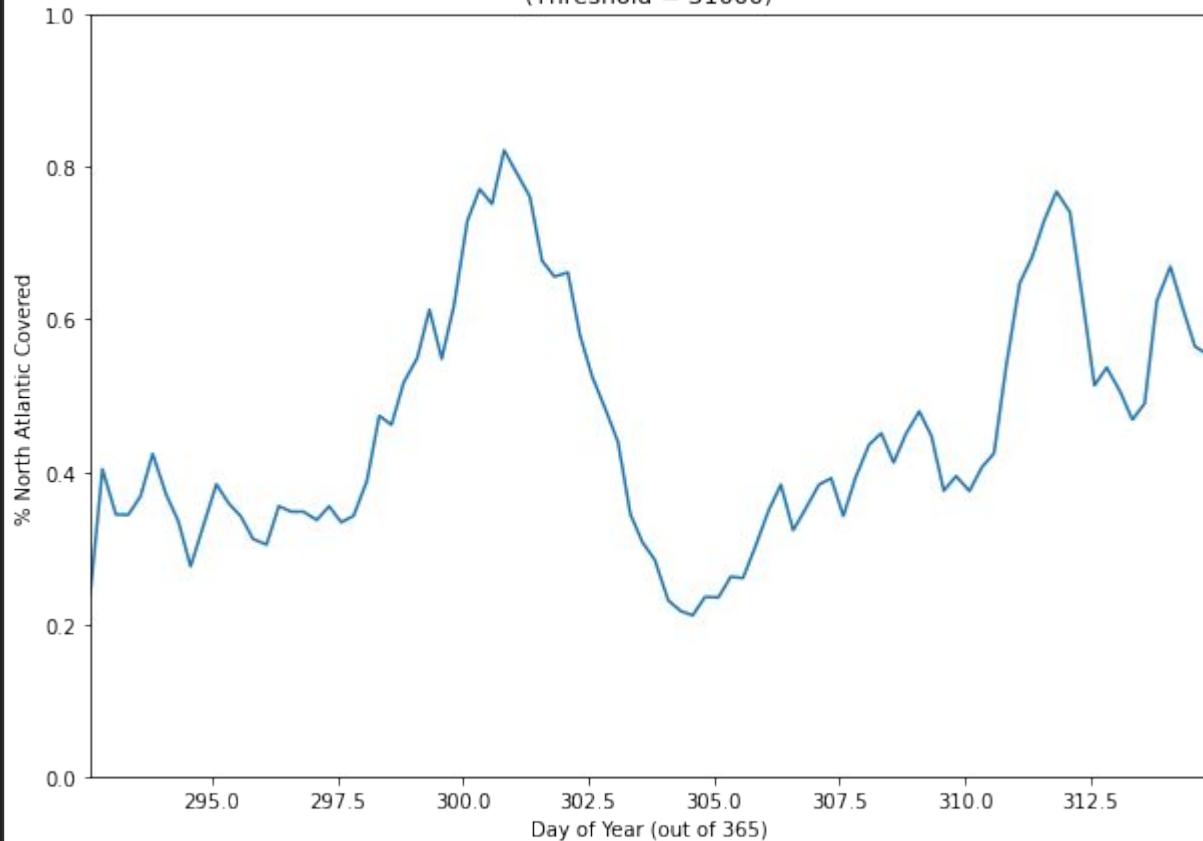(Threshold = 27000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_05
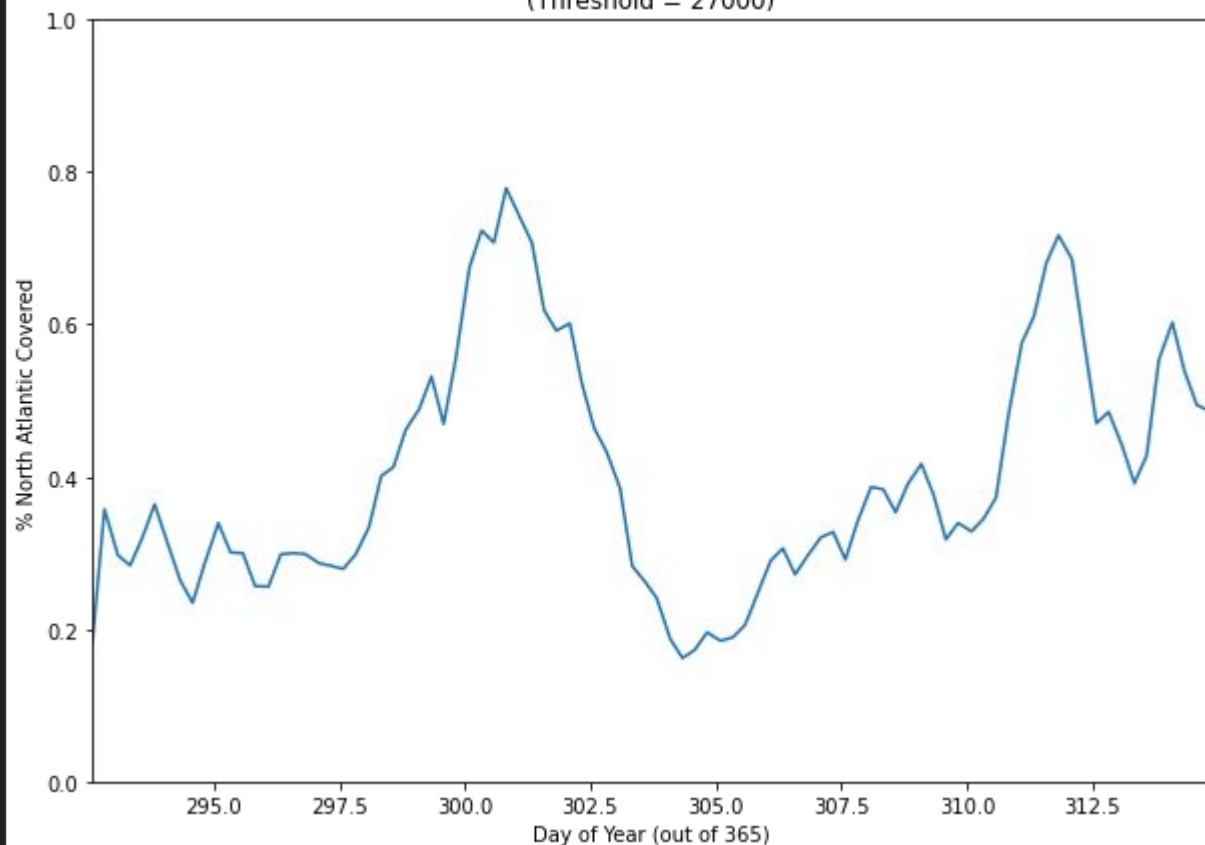(Threshold = 29000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_06
(Threshold = 33000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_07
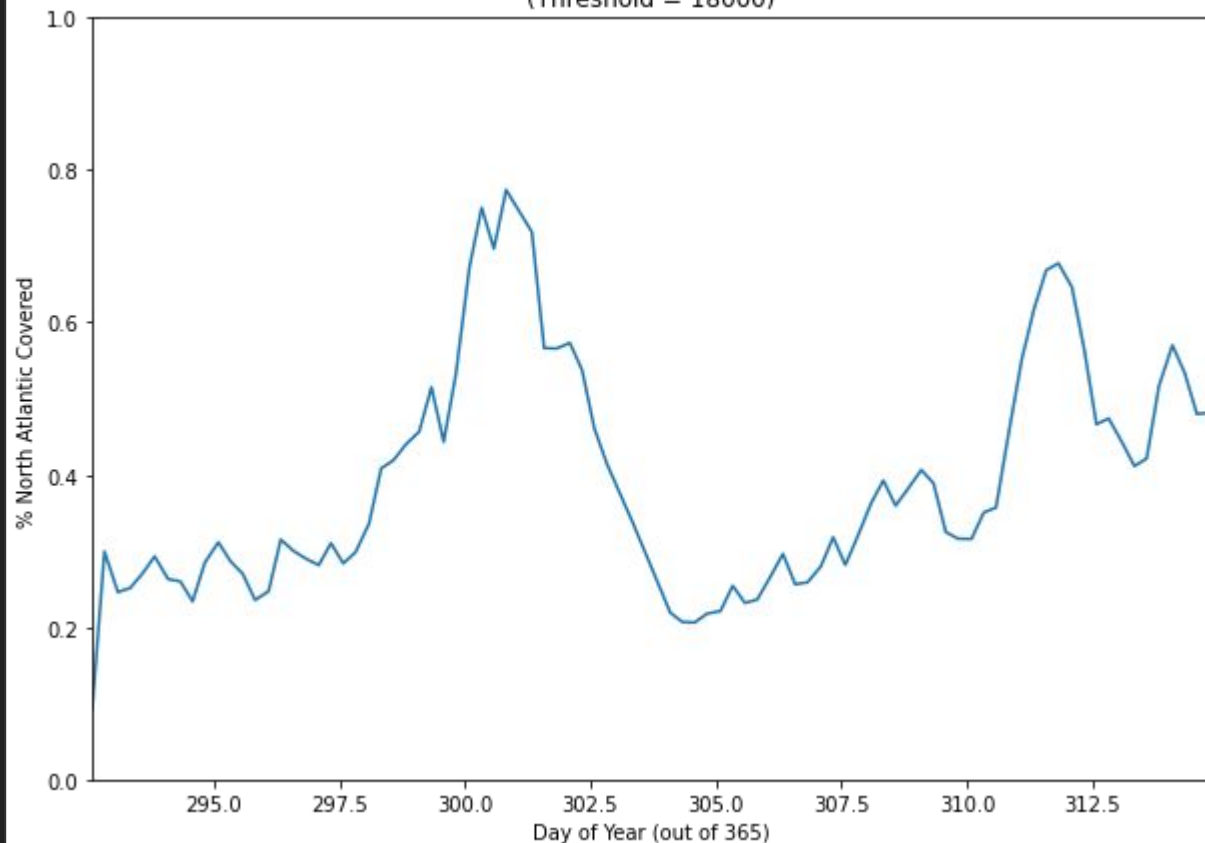(Threshold = 31000)

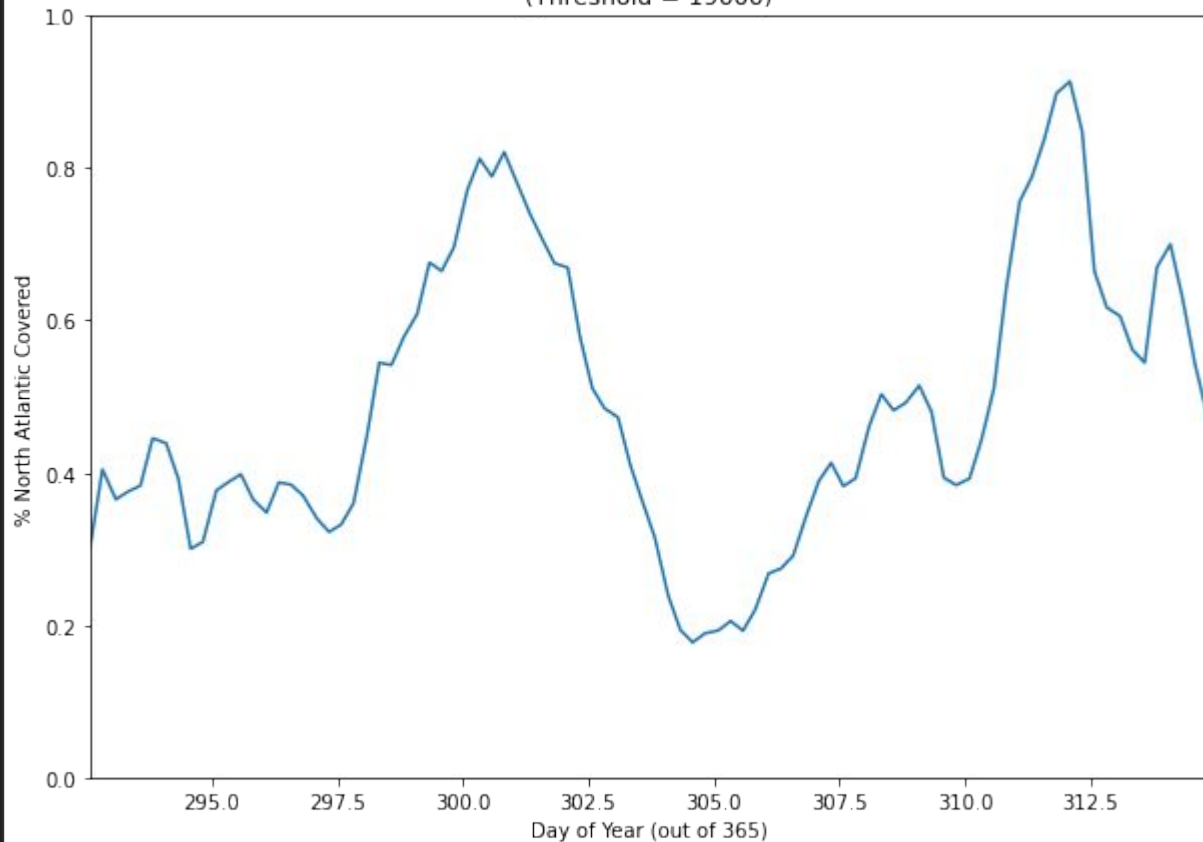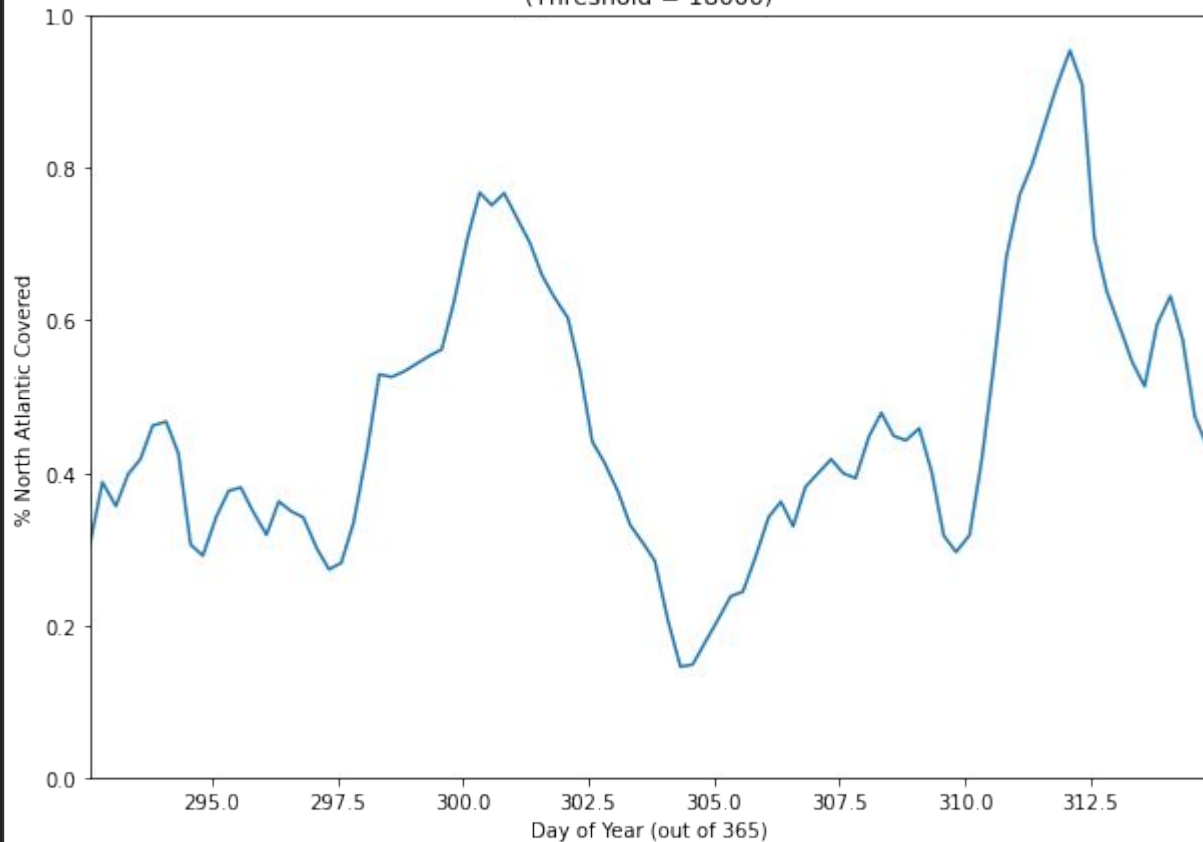Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_08 (Threshold = 27000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_09
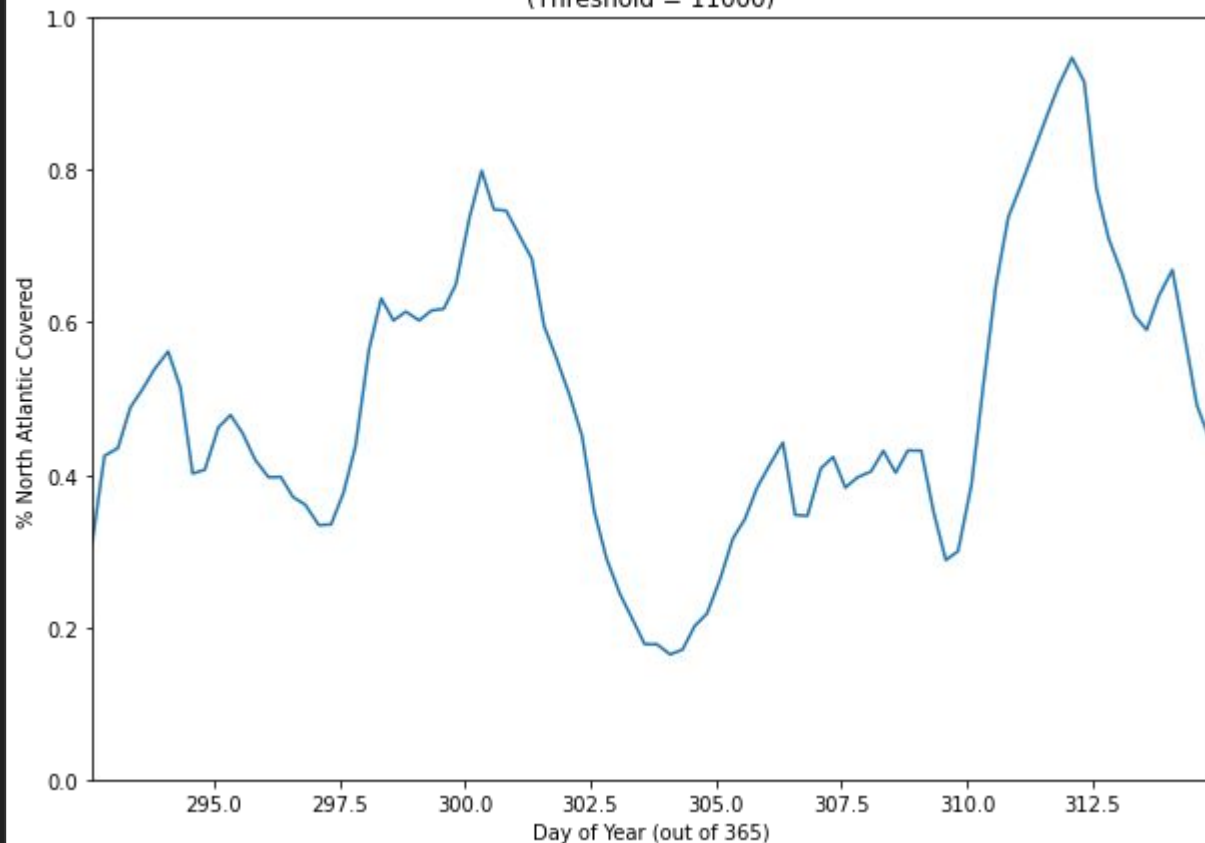(Threshold = 18000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_10
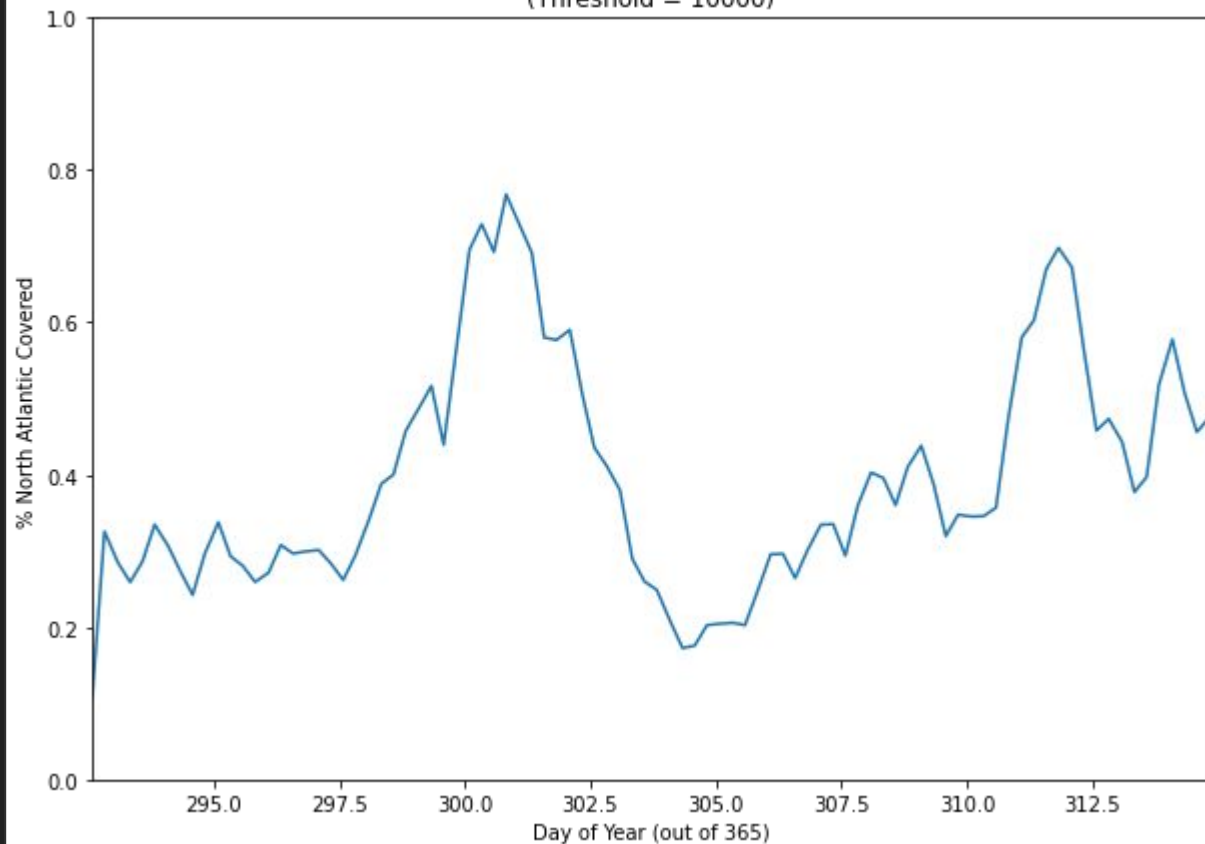(Threshold = 19000)

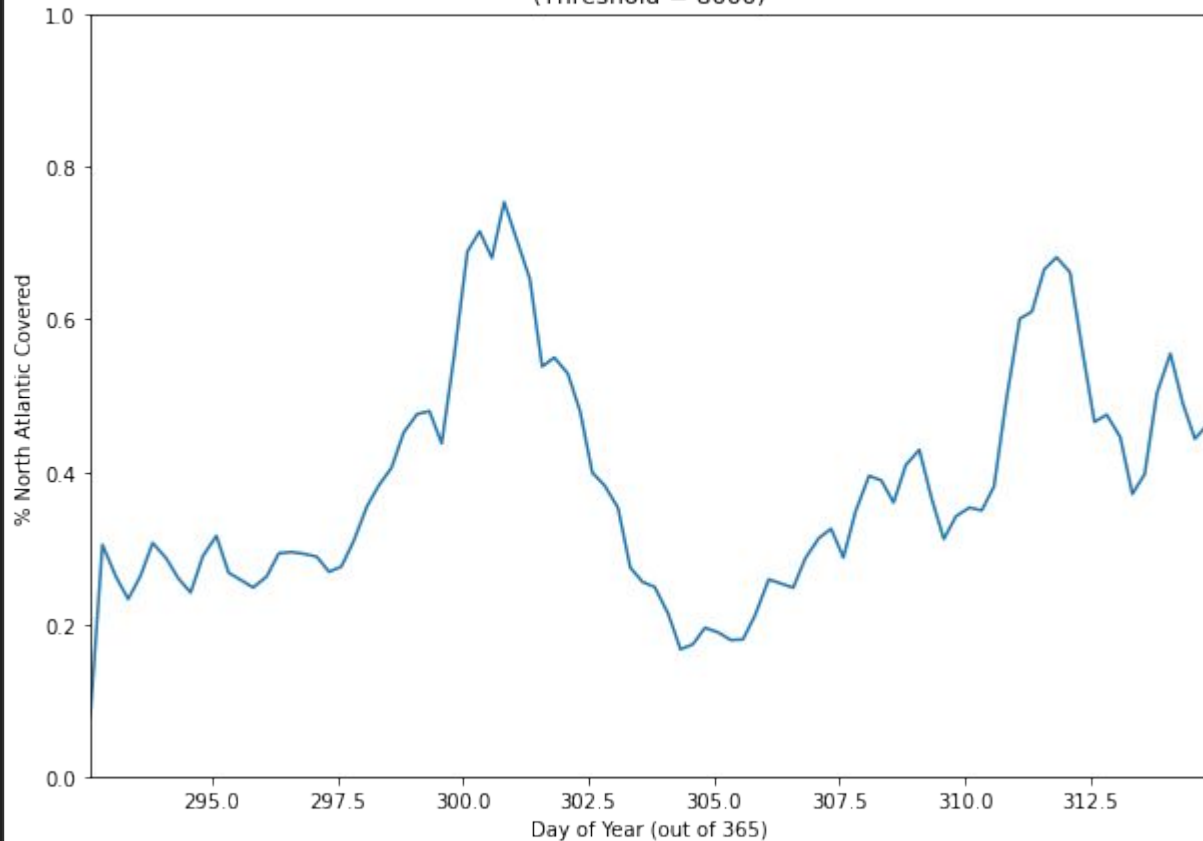Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_11 (Threshold = 18000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_12
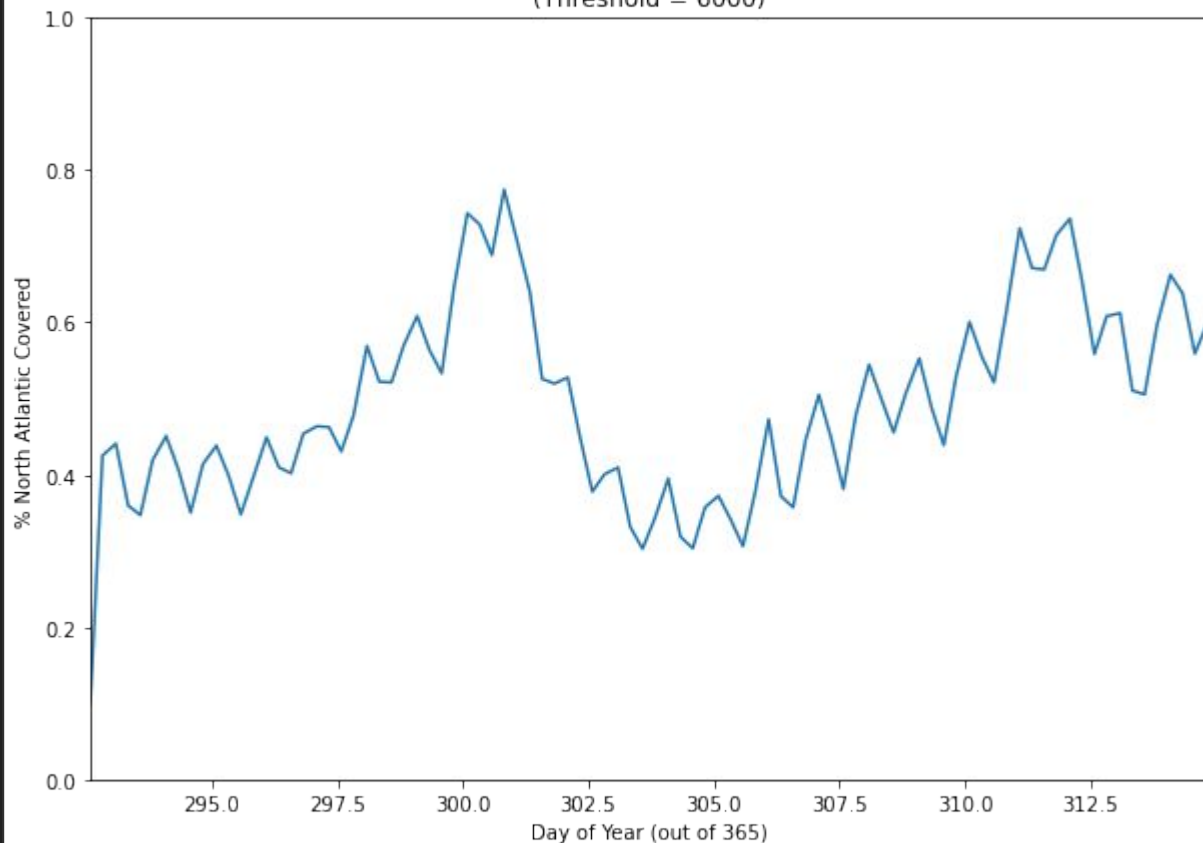(Threshold = 11000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_13
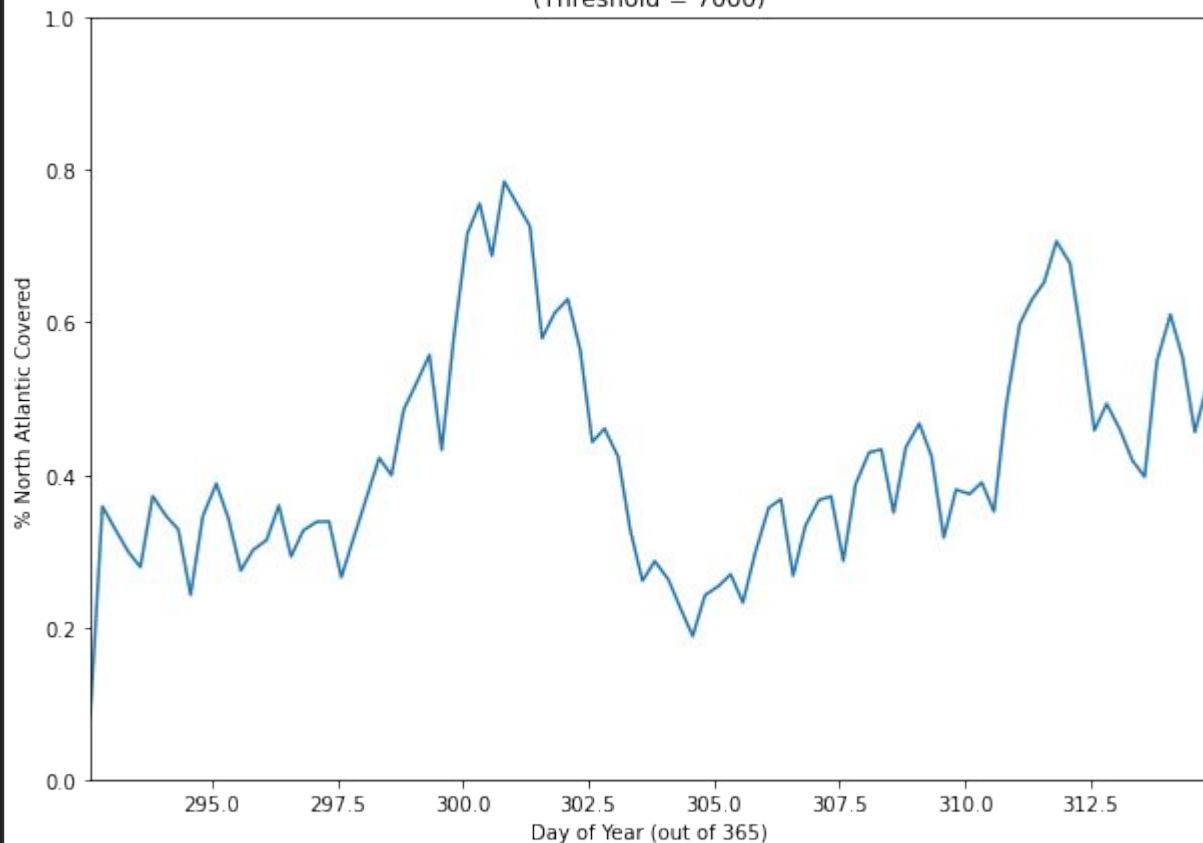(Threshold = 10000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_14
(Threshold = 8000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_15
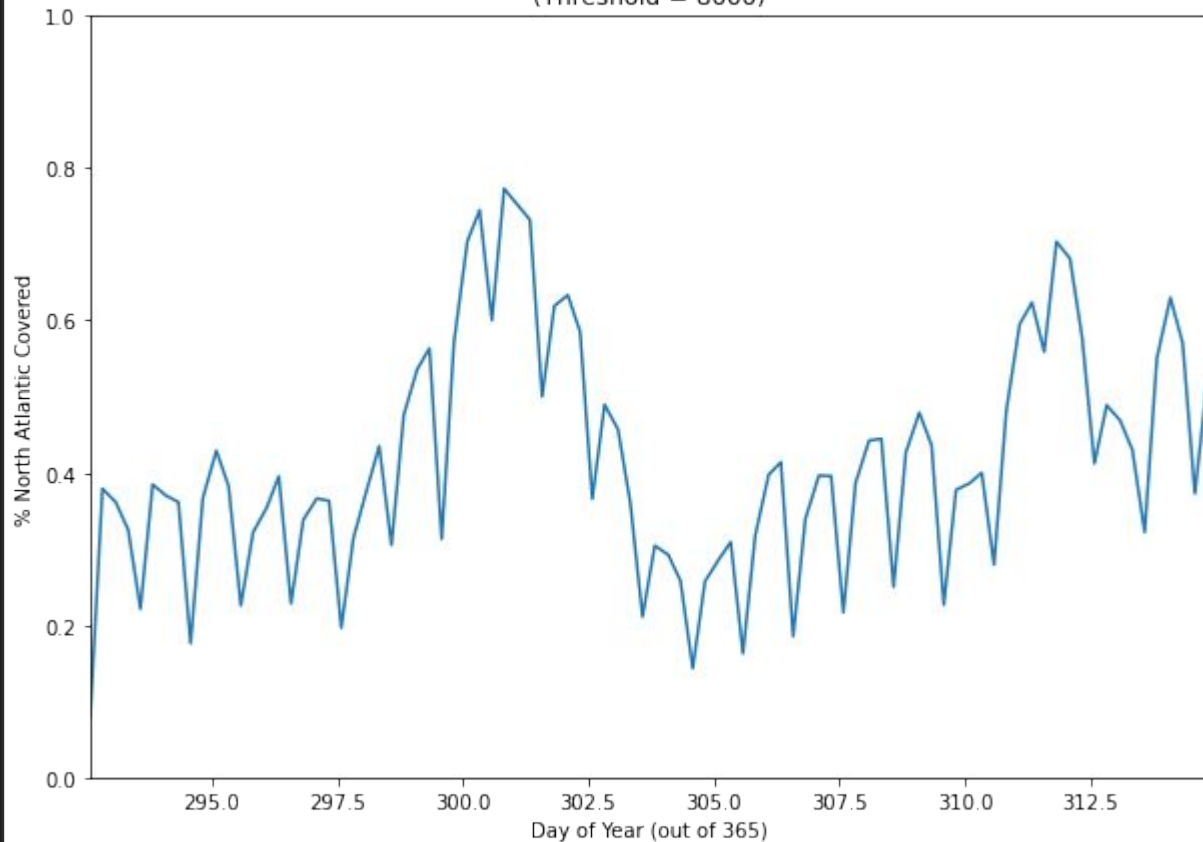(Threshold = 6000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_16
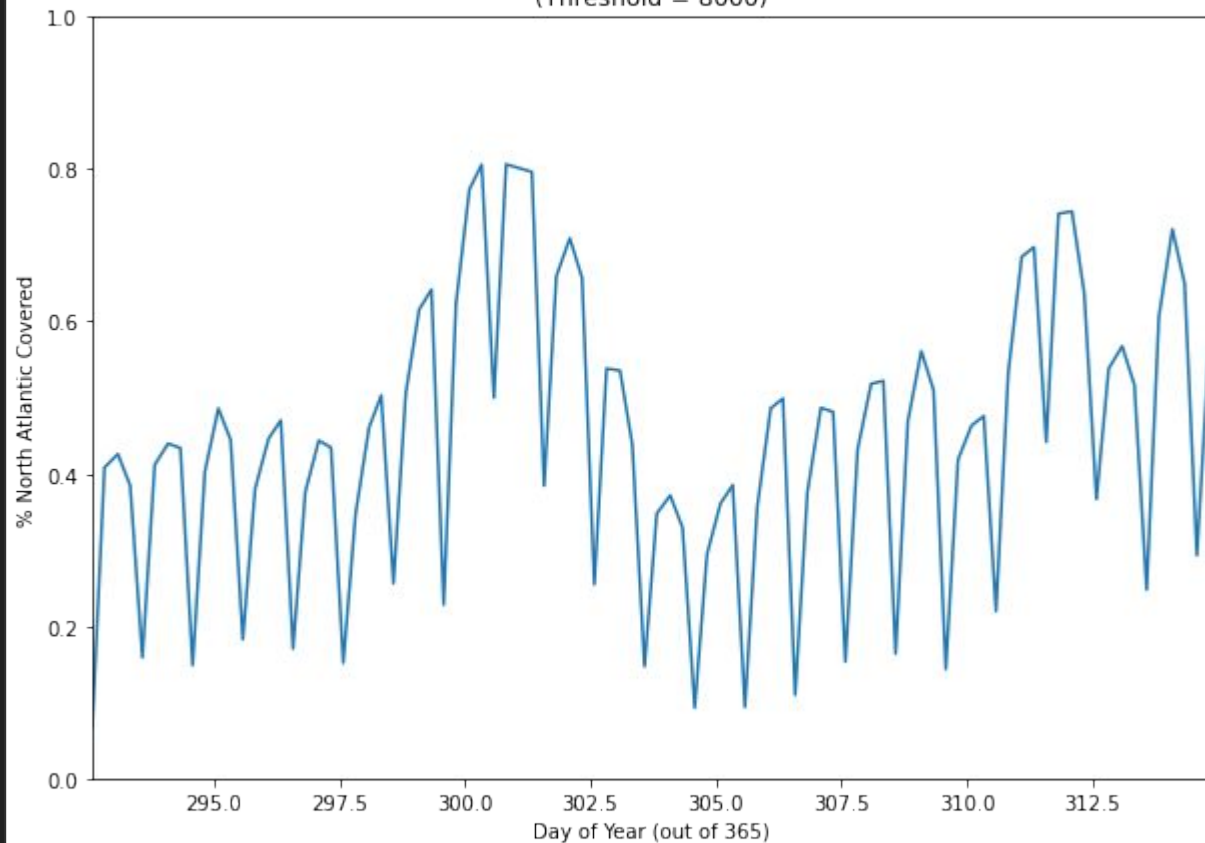(Threshold = 7000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_17
(Threshold = 8000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_18
(Threshold = 8000)

Cloud Cover Over Northern Atlantic During Hurricane Sandy, as Measured by BAND_19
(Threshold = 10000)