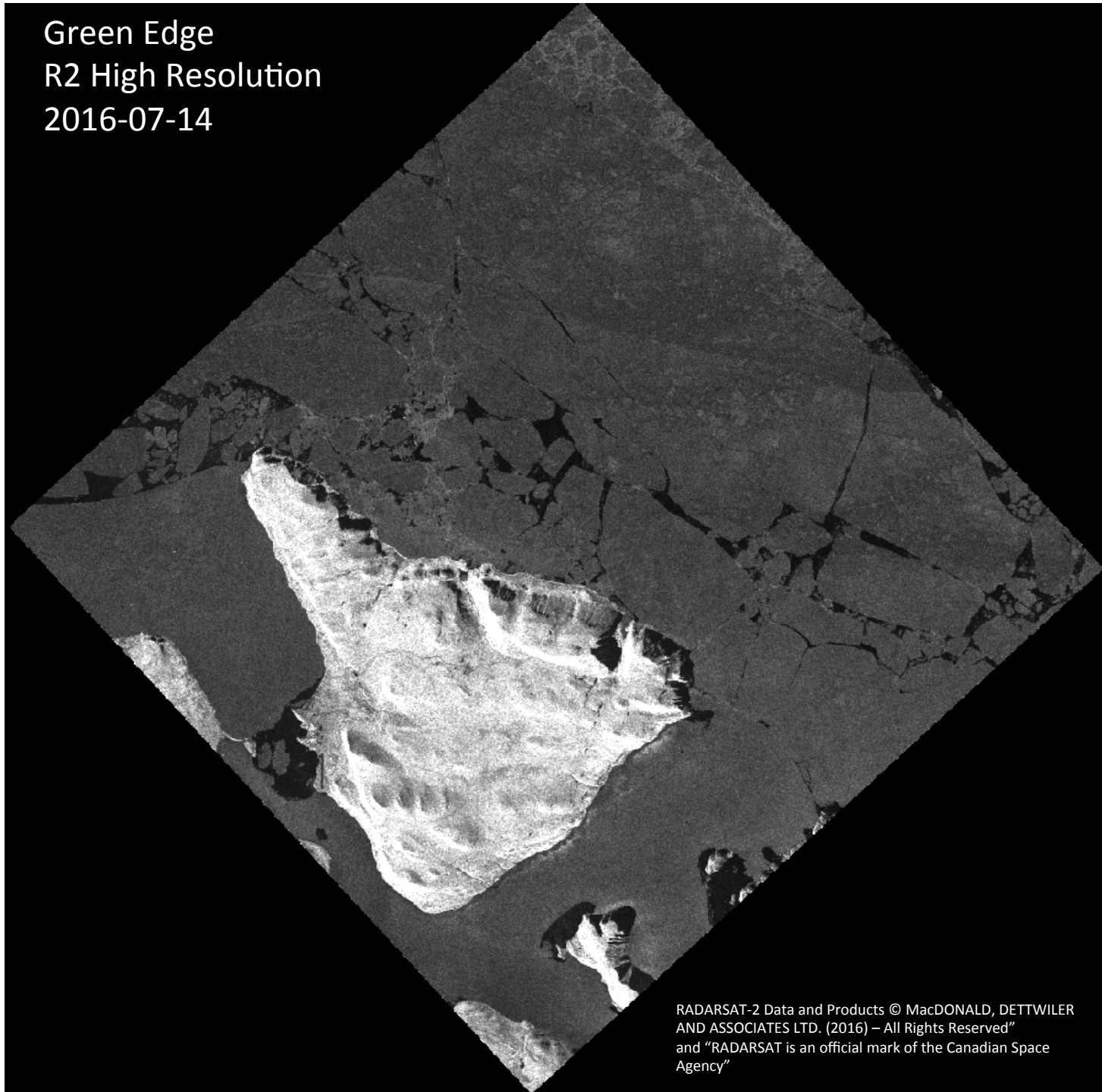


Green Edge Ice Camp

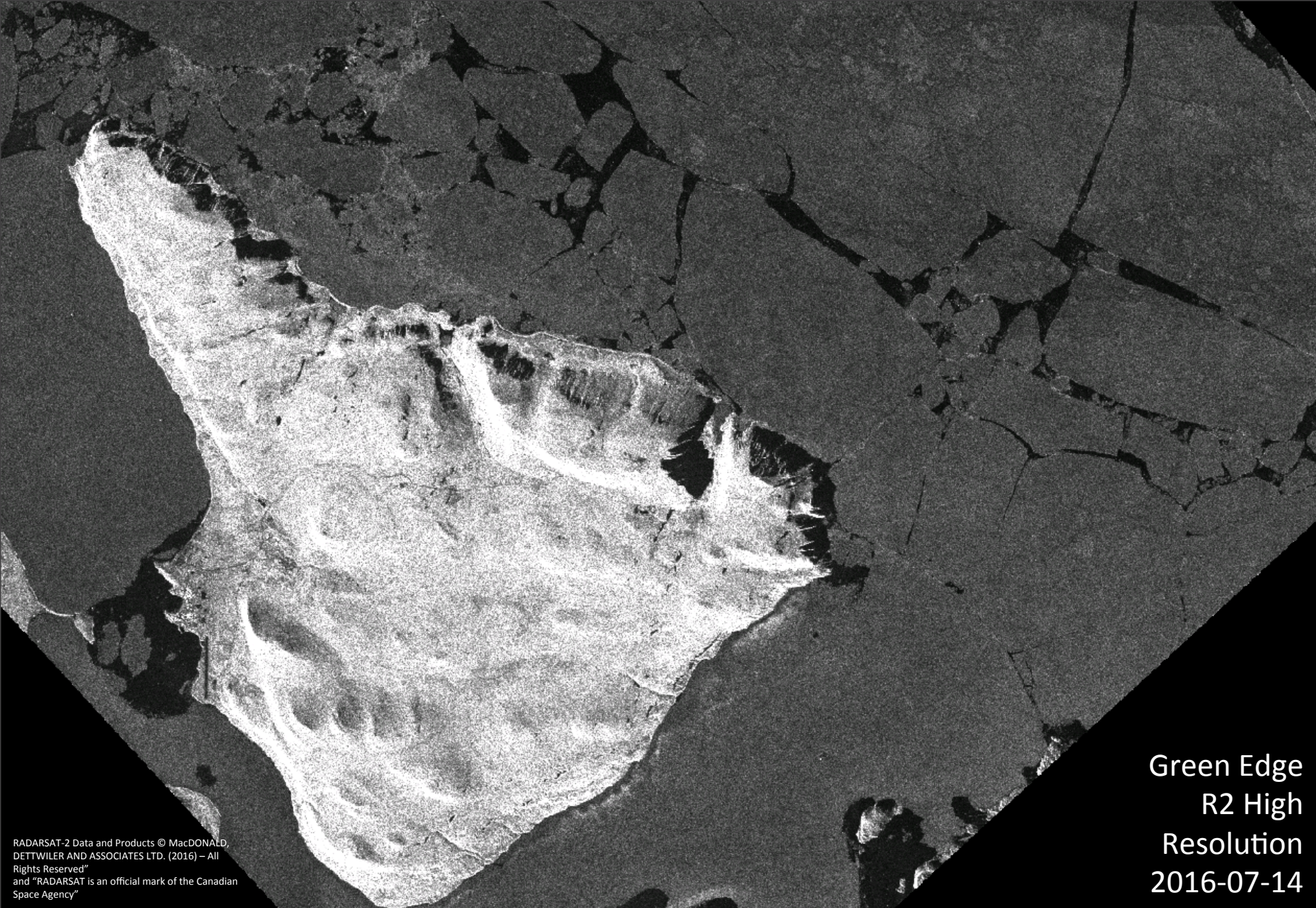
Comments

- We have two RADARSAT-2 high-resolution images thanks to Henry Jupe from the Canadian Ice Service. I added a third image with the ice camp position.
- By comparing the AMSR2 zoom images of July 14th and of July 15th, we observe that the sea ice with a sea ice concentration of 100% east of Broughton Island (Feature A) is quickly melting.
- On the Sentinel-1 image, we observe that the distance between the ice camp and the marginal ice zone is 162.2 km. This distance decreased from 294.0 km (May 5th) to 287.3 km (May 10th) to 248.4km (May 17th) to 245.1 km (May 18th) to 252.3 km (May 22nd) to 233.4 km (May 29th) to 232.2 km (June 10th) to 235.4 km (June 15th) to 240.7 km (June 27th) to 188.9 km (July 4th) to 108.2 km (July 9th) to 162.2 km (July 15th). We note an apparent increase in the distance between the ice camp and the marginal ice zone between July 9th and July 15th. My hypothesis is the following. I suppose the melting of the sea ice causes a blurred edge between the sea ice and the open water on the Sentinel-1 images. Thus, it is more difficult to identify the marginal ice zone precisely.
- The distance between the ice camp and the land-fast ice edge is 3.6 km. It was 3.9 km on July 12th.

Green Edge
R2 High Resolution
2016-07-14



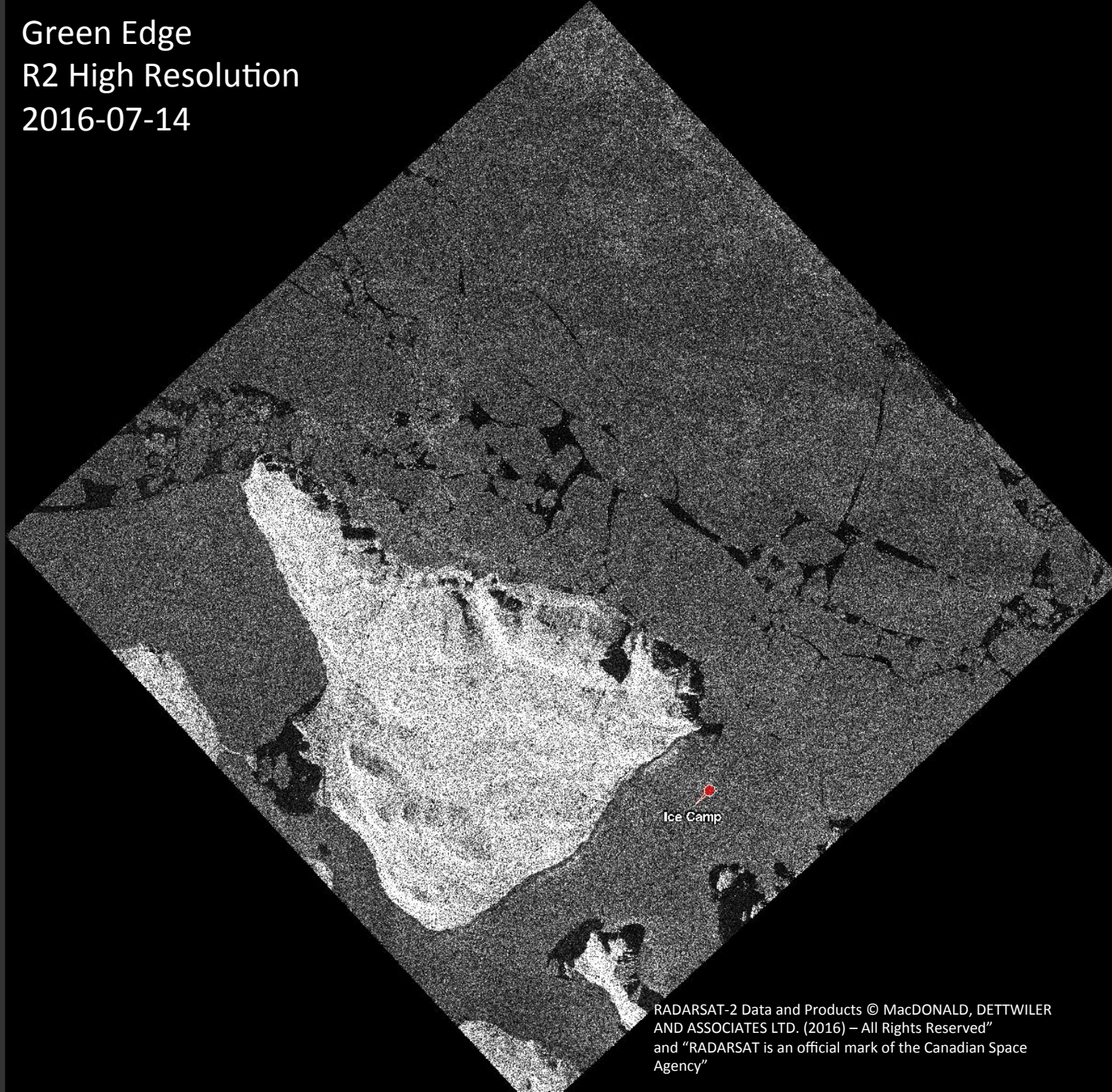
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Green Edge
R2 High
Resolution
2016-07-14

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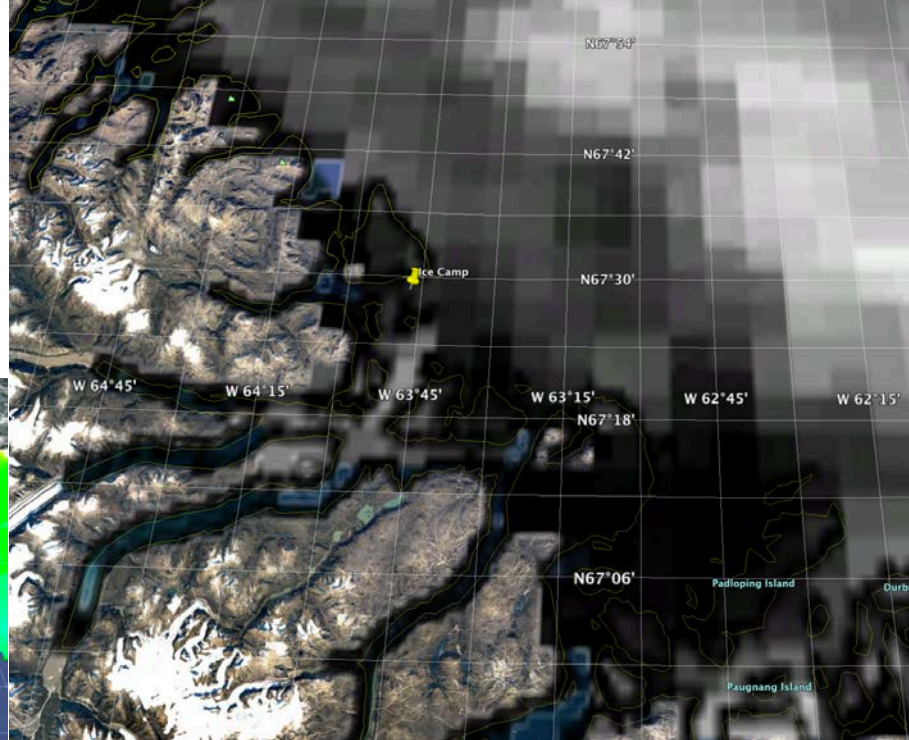
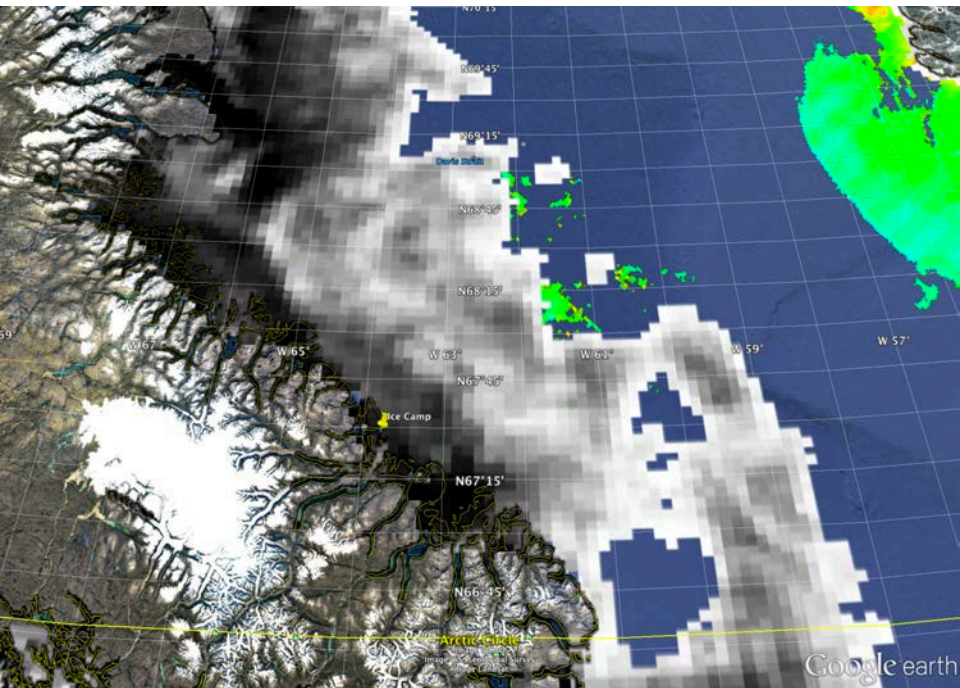
Green Edge
R2 High Resolution
2016-07-14



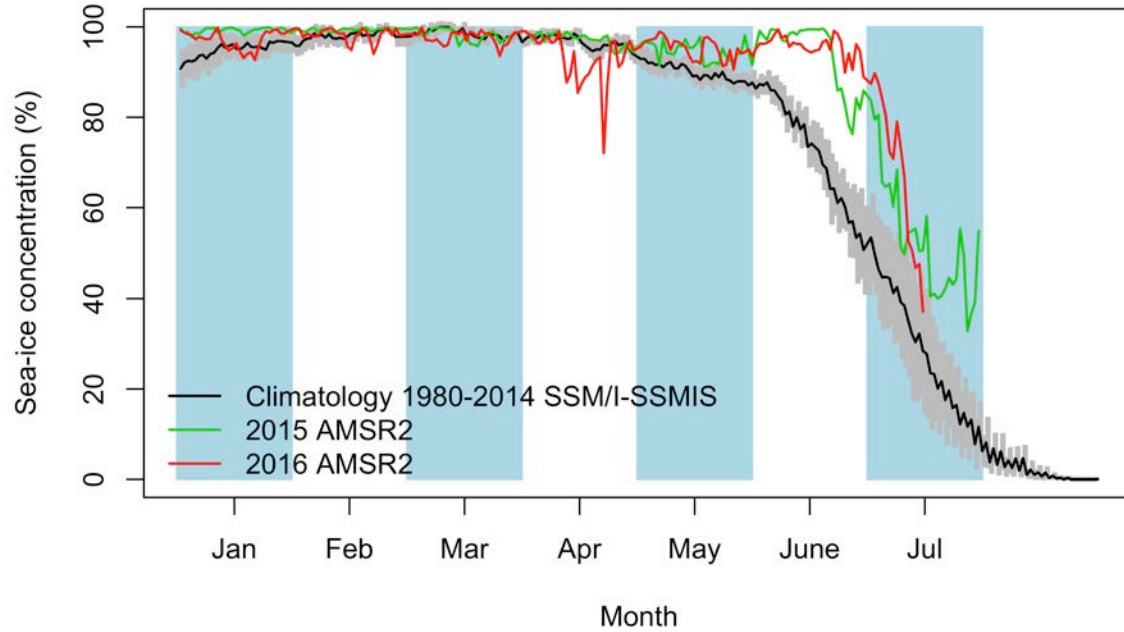
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July 15th

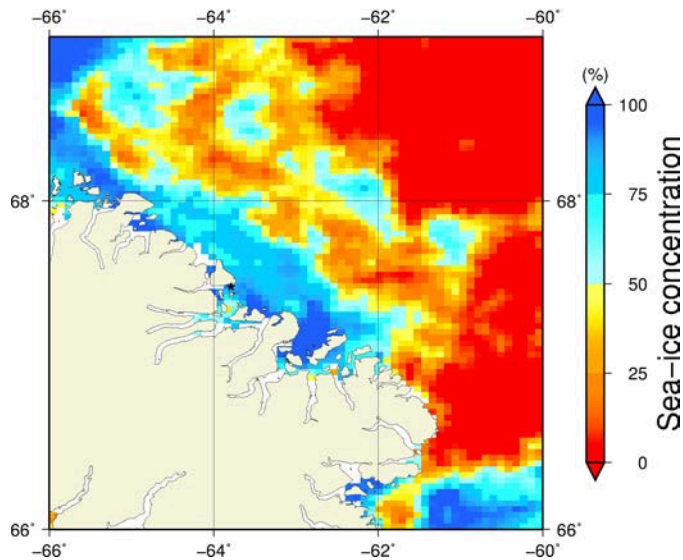
AMSR2 sea-ice concentration and MODIS chlorophyll-a concentration



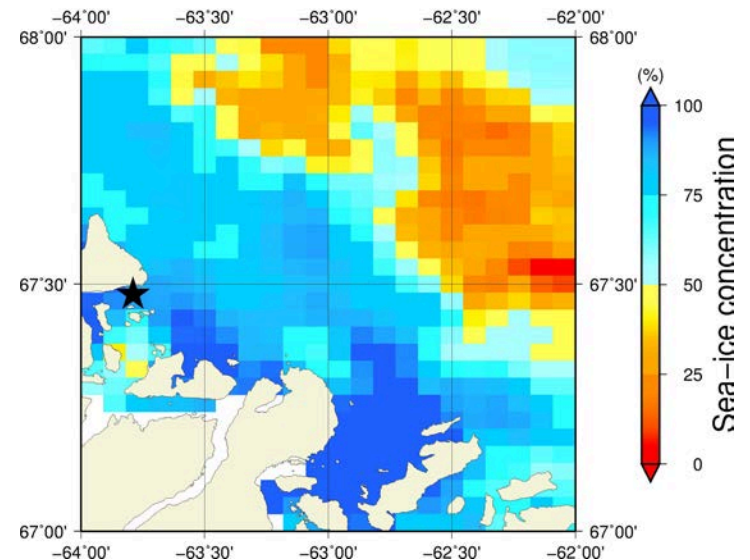
July 15th (AMSR2) Sea-ice concentration in the region 66° to 69°N and -66° to -60°E



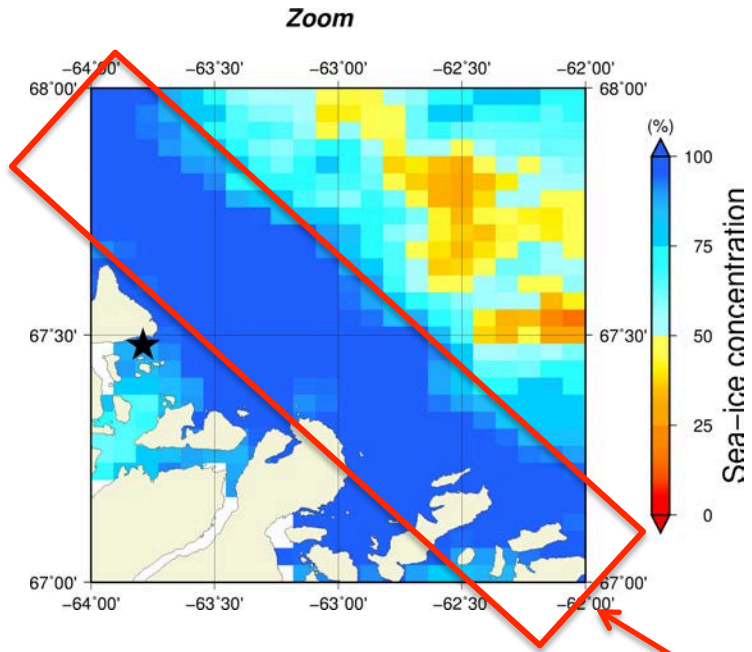
Overview



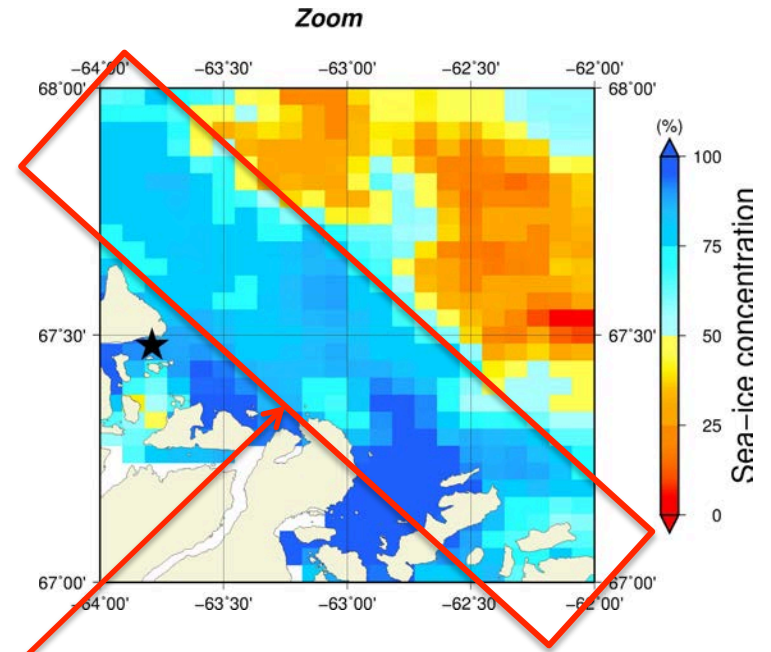
Zoom



July 14th (AMSR2)

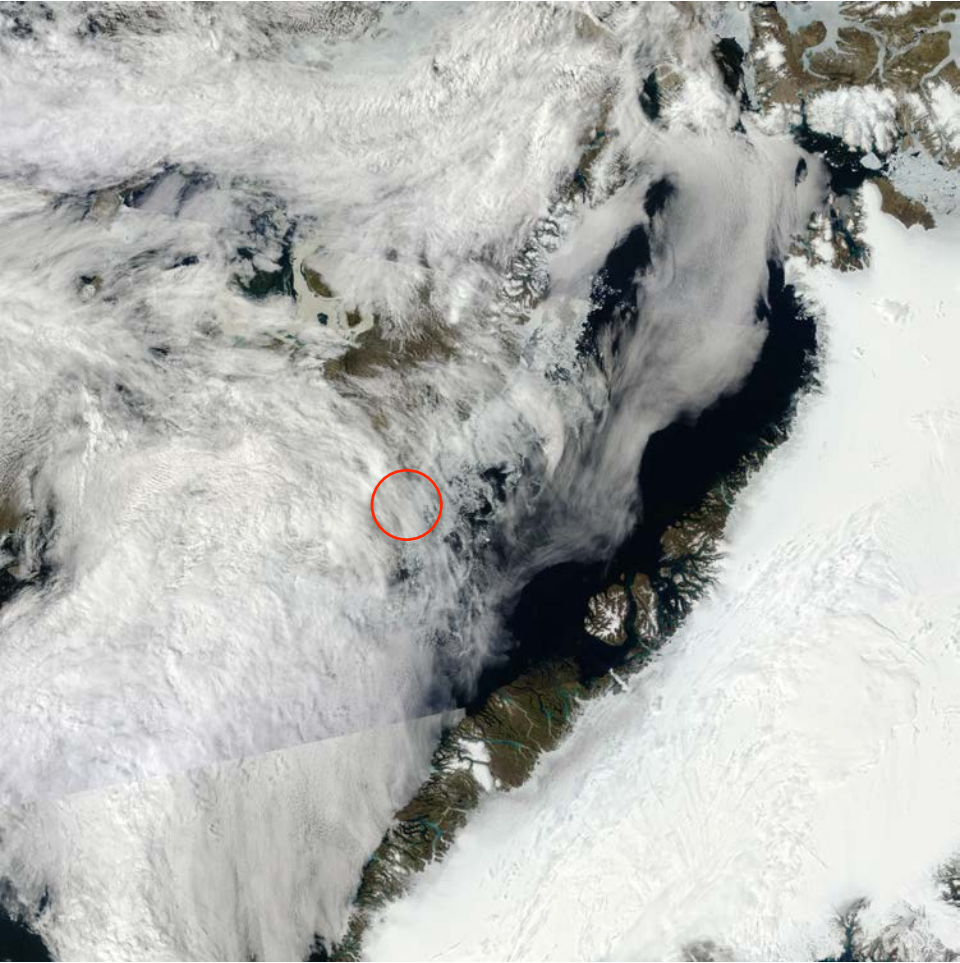


July 15th (AMSR2)



Feature A

July 15th (MODIS)



July 15th (Sentinel-1)

