

Instruction Worksheet Case study: Positioning

Objectives: Positioning exercises; interpreting microwave images; microwave viewer.

1. Getting started: systems and briefing

1.2 Open a web browser (Mozilla):

Introduction to the microwave viewer:

2. Positioning Exercises

2.1 Gita Feb 2018 use image viewer for microwave images:

Determine position and uncertainty at:

- a. 1216UTC on 12/02/2018 _____
- b. 18UTC on 11/02/2018 _____
- c. 0304UTC on 10/02/2018 _____
- d. 1426UTC on 09/02/2018 _____
- e. 1240UTC on 08/02/2018 _____

2.2 Gita by ASCAT use image viewer and NOAA inc NRCS

<https://manati.star.nesdis.noaa.gov/datasets/ASCATData.php>:

Determine position at:

- a. 0852UTC on 12/02/2018 _____
- b. 2024UTC on 11/02/2018 _____
- c. 2044UTC on 10/02/2018 _____
- d. 2104UTC on 09/02/2018 _____
- e. 2124UTC on 08/02/2018 _____

3. Learnings

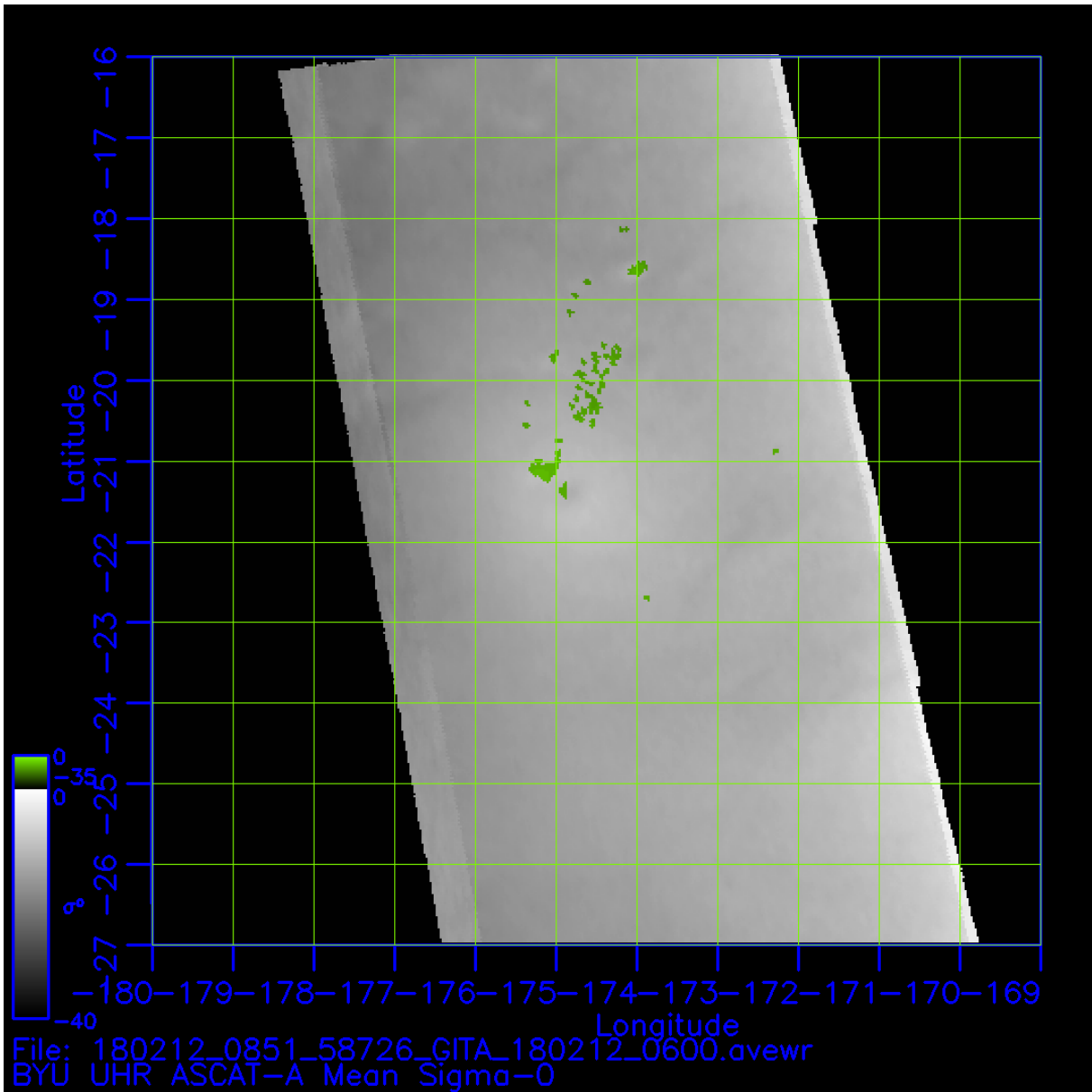
What have you learned from this exercise?

NRCS

D:\FIJI_2019\05b_worksheet_position_Gita.docx

12/02/18 0851 (Tonga)

https://manati.star.nesdis.noaa.gov/ascats_images/ascats_storm/byu_sh_image/2018/GITA/58726_GITA_180212_0600.a
vewr.gif



2.1 Gita Feb 2018 use image viewer for microwave images:

Determine position and uncertainty at:

- a. 1216UTC on 12/02/2018 **21.3S 175.9W** 37GHz (northeast of 89GHz 21.4S 176W)
- b. 18UTC on 11/02/2018 **21.6S 171.35W** 37GHz not so clear but appears NE of 91GHz
- c. 0304UTC on 10/02/2018 **16.45S 169.35W** can't see on 37GHz but clear curvature on 91GHz; loop on Vis great as well 16.5S 169.2.
- d. 1426UTC on 09/02/2018 **14.6S 172.3W** 37GHz clearly superior (no vis)
- e. 1240UTC on 08/02/2018 **15.6E 179.1W** difficult at night without vis loop (look at vis earlier in the day); 89GHz composite best. Weak system.

2.2 Gita by ASCAT use image viewer and NOAA inc NRCS

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Determine position at:

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