Detecting Landscape Degradation in the Pantanal Using ASCAT Imaging

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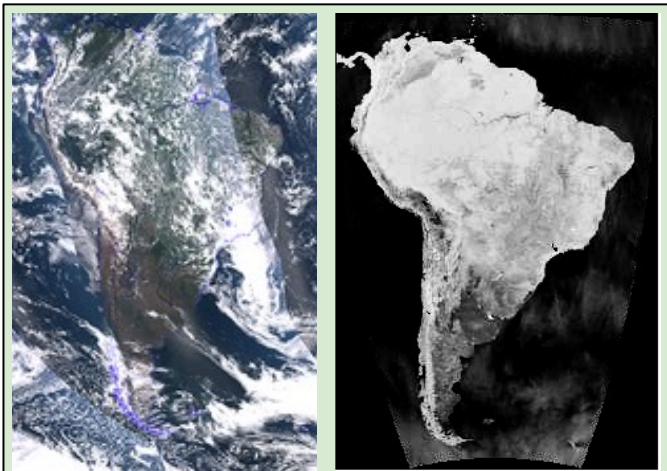*Brigham Young University*

Potential advantages of ASCAT over optical imaging :

- High passover frequency
- Insensitive to atmosphere
- May complement existing techniques

Deforested pixels show:

- Increased variance
- Decreased backscatter

With detailed modeling, it may be possible to predict how much deforestation has occurred in an area in similar biomes.

Left: MODIS images, Nov. 2022
Right: ASCAT SIR image, Nov. 2, 2022