SAR Maritime Applications

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Any Alternative to Satellite Oceanography?

1957: first satellite launched (Sputnik)
1978: first satellite dedicated to oceanographic applications (Seasat)
today: satellite remote sensing inherent part of oceanography

SAR Maritime Applications

Friday, 3 June, Morning:

1 - History & Basics
- Introduction
- Radar/SAR History
- Basics
- Scatterometer

2 - Wind and Waves
- SAR Wind Fields
- Storms, Tropical Cyclones
- Ocean Surface Waves
- Oceanic Internal Waves
- Marine Surface Films
- Rain

Friday, 3 June, Afternoon:

3 - Currents and Objects
- Surface Currents
- Sea Bottom Topography
- Ship Detection
- Oil Pollution Monitoring
- Sea Ice

4 - Practicals
- SNAP Toolbox:
- Calibration, Georeferencing,
- Image Interpretation:
- Wind Fields, Oil Pollution,
- Objects

Seasat SAR Image

What is shown here?

Seasat SAR Image (L-HH, 80 km × 75 km)
Nantucket Island
(27 August 1978, 12:34 UTC)

Books: Basics & Theory

Books: Examples and Applications

to be continued…