

→ POLINSAR 2013

The 6th International Workshop on Science and Applications of SAR Polarimetry and Polarimetric Interferometry

Seed questions:
Applications on Ocean Pollution monitoring & target
detection

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Target detection:

- What are the unique benefits of polarimetric SAR data vs single-pol for ship observation?
- What are the best polSAR (quad-, dual-, compact/hybrid) configurations for ship observation ?
- Is the theoretical framework behind polSAR ship observation mature ? What are future trends (ship classification)?

Oil pollution:

- What is the current status on new techniques based on multi-polarisation SAR/PolSAR/compact polarimetry for oil spill versus look-alike discrimination?
- What is the current status on new techniques based on multi-polarisation SAR/PolSAR for characterization (thickness, oil volume fraction etc) of oil spills?
- There is an increasing interest in remote sensing of oil in sea ice infested waters. How far can we get with current SAR/PolSAR techniques? What types of sensors do we need?

Combining oil and ship:

An operational full-pol SAR system to observe oil/ships at sea is significantly affected by the low spatial/temporal coverage:

- What is the current status of new technologies (e.g. compact/hybrid pol, digital beam forming).
- Can the polarimetric measurements be exploited to enhance the value of single-pol ones?