



Oil spill detection and classification from aircraft



Dr. Nils Robbe
OPTIMARE Sensorsysteme GmbH & Co. KG
Bremerhaven, Germany



Oil spill detection and classification from aircraft

Selected aspects:

- One component of multi-purpose special mission aircraft
- Advanced sensing
 - Standard & advanced sensors
 - Spill type classification
 - Sensor fusion
- Dissemination of information:
 - Coherent air/sea/shore communication via SATCOM and web-based GIS

- Spatio-temporal flexibility
- Pollution control, Search & Rescue, EEZ monitoring etc. on one platform



- (Cost-)effective co-usage of subsystems



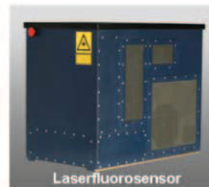
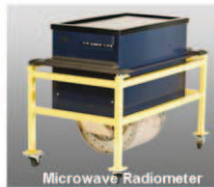
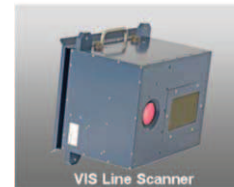
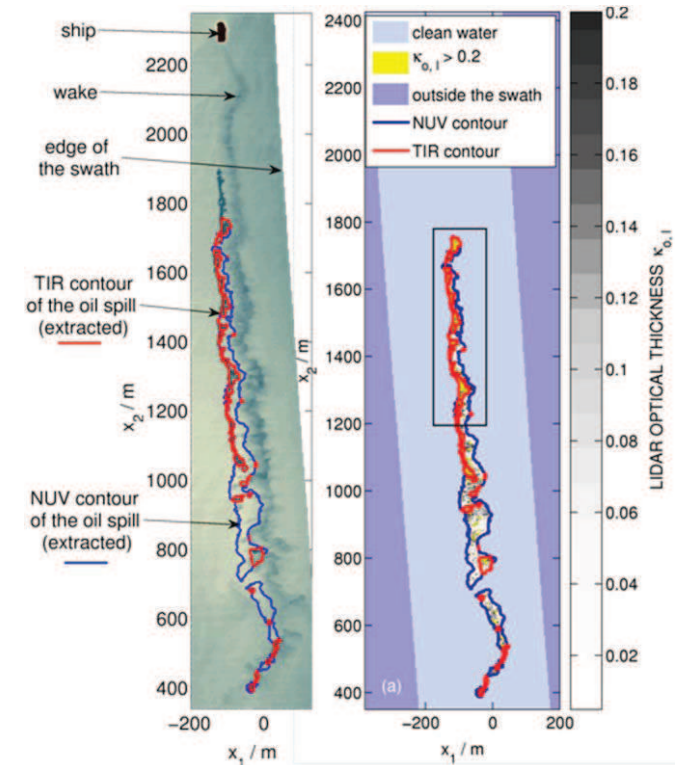
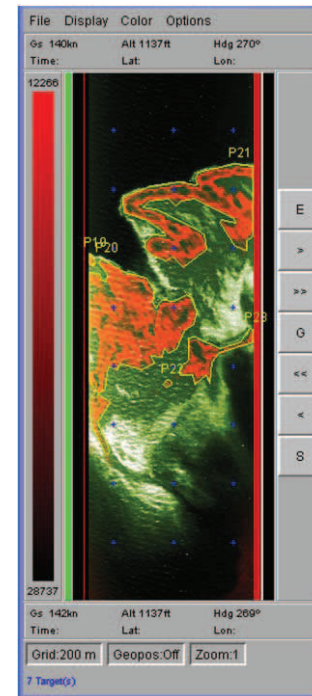


Oil spill detection and classification from aircraft

Selected aspects:

- One component of multi-purpose special mission aircraft
 - Advanced sensing
 - Standard & advanced sensors
 - Spill type classification
 - Sensor fusion
 - Dissemination of information:
 - Coherent air/sea/shore communication via SATCOM and web-based GIS

- Acquisition and analysis of spill details (thickness in absolute units, *hot spots*, oil type by means of laser fluorosensing, synthetic images)
- Spatio-temporal flexibility

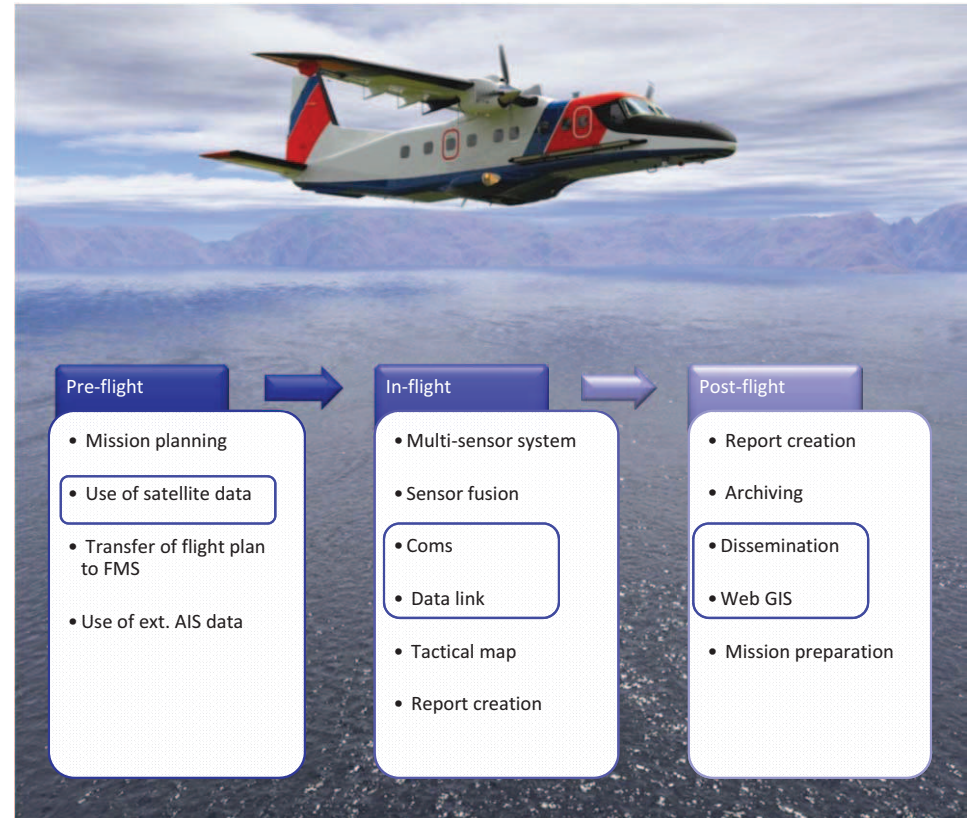




Oil spill detection and classification from aircraft

Selected aspects:

- One component of multi-purpose special mission aircraft
- Advanced sensing
 - Standard & advanced sensors
 - Spill type classification
 - Sensor fusion
- Dissemination of information:
 - Coherent air/sea/shore communication via SATCOM and web-based GIS



- Aircraft data
- Satellite data
- *in situ* data
- Model input



Thank you for your attention



Email: remotesensing@optimare.de

