

Oil Spill Test Toll C Dec 5 2008

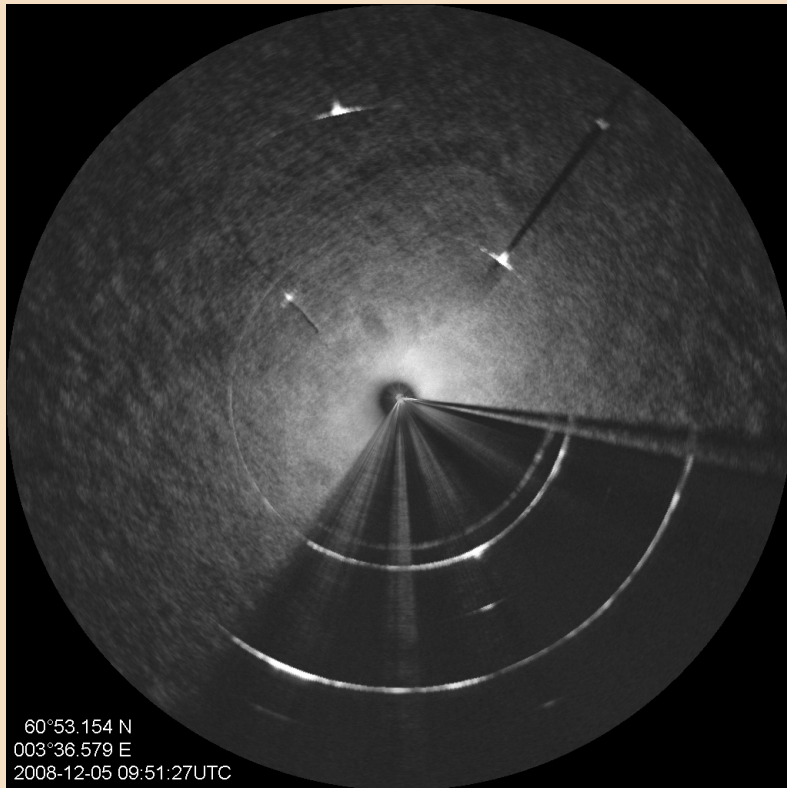


Oil Spill 1

1 m³ of oil/water mixture released (250 l of oil) at 1.1-1.6 Nm

After release

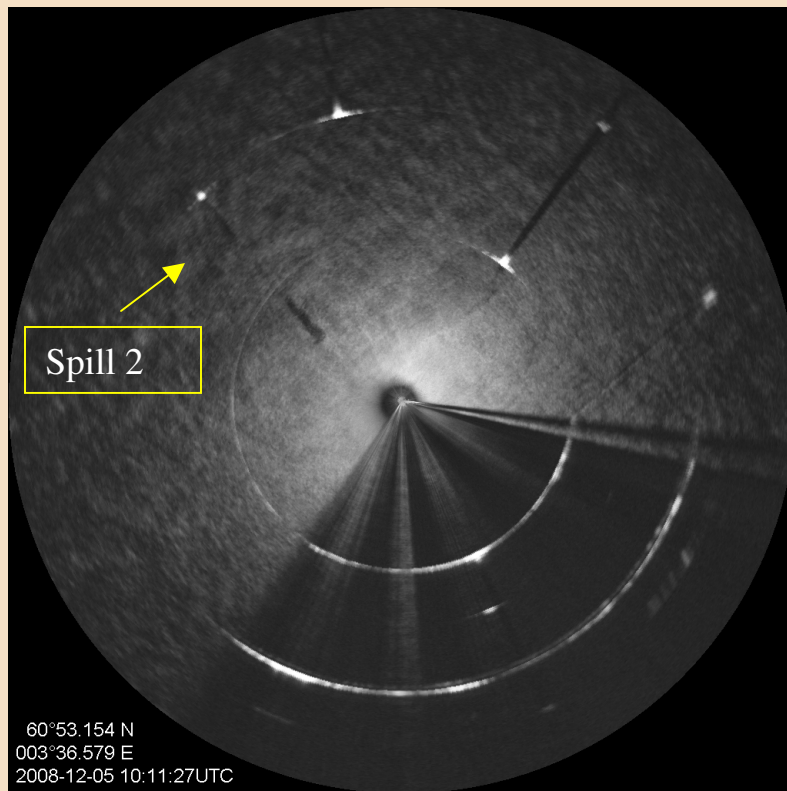
After ~ 7 min



Oil Spill 2

6 m³ of oil/water mixture released (250 l of oil) at 2.5-3.5 Nm

After release



The spill is just visible near the ship

Note:

The image quality depends on

the number of processed radar images (32).

Processing more radar images will enhance the contrast.

The images are internal memory snapshots and

have a fixed contrast ratio, the screen visible to user

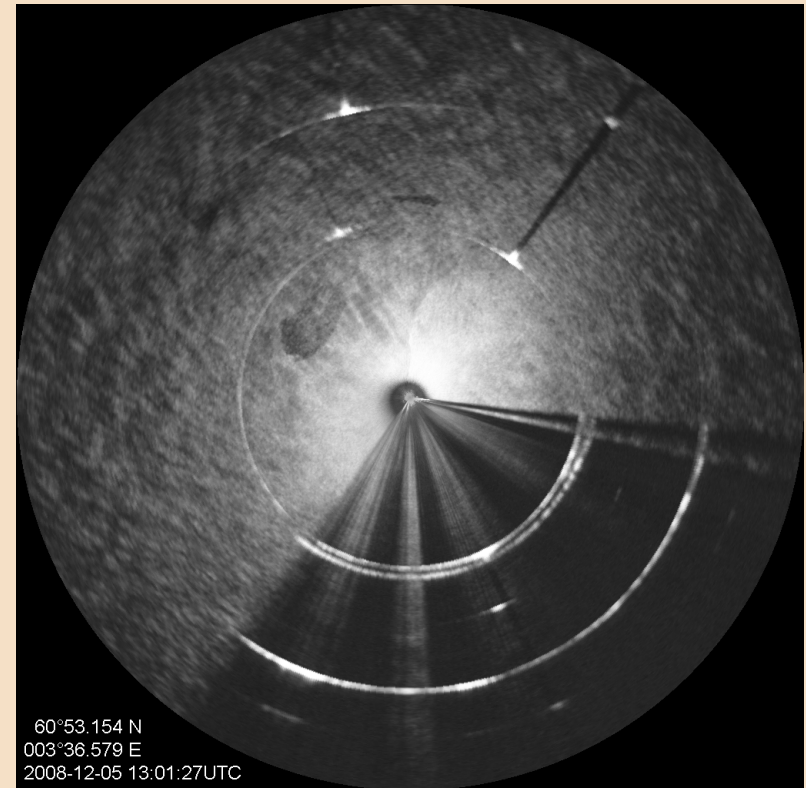
has contrast enhancement tools available to make the contrast better (See Contrast enhanced Images).

Oil Spill 3

6 m³ of oil/water mixture released (250 l of oil) at 2-2.25 Nm

After release

After ~15 min

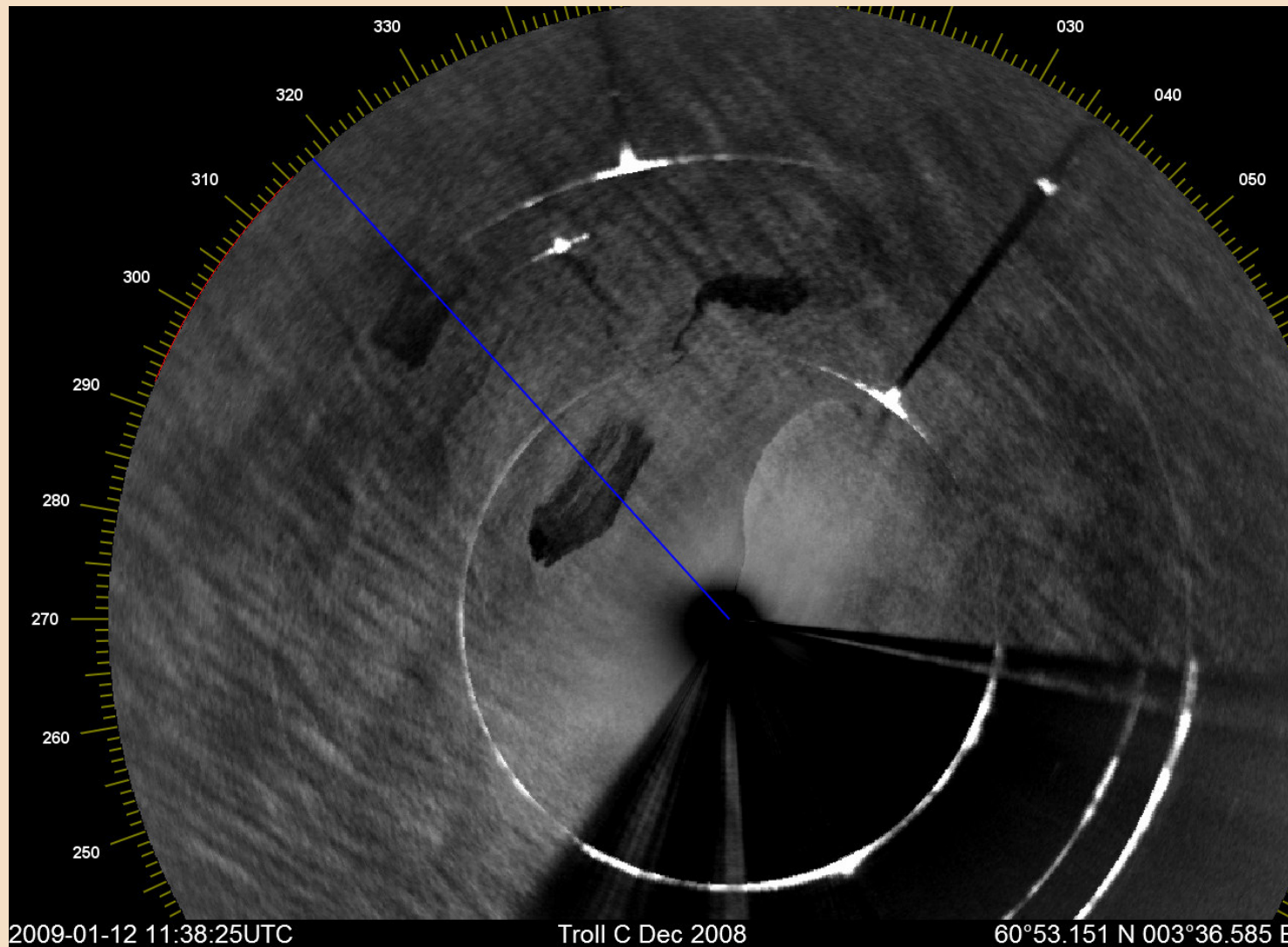


Images



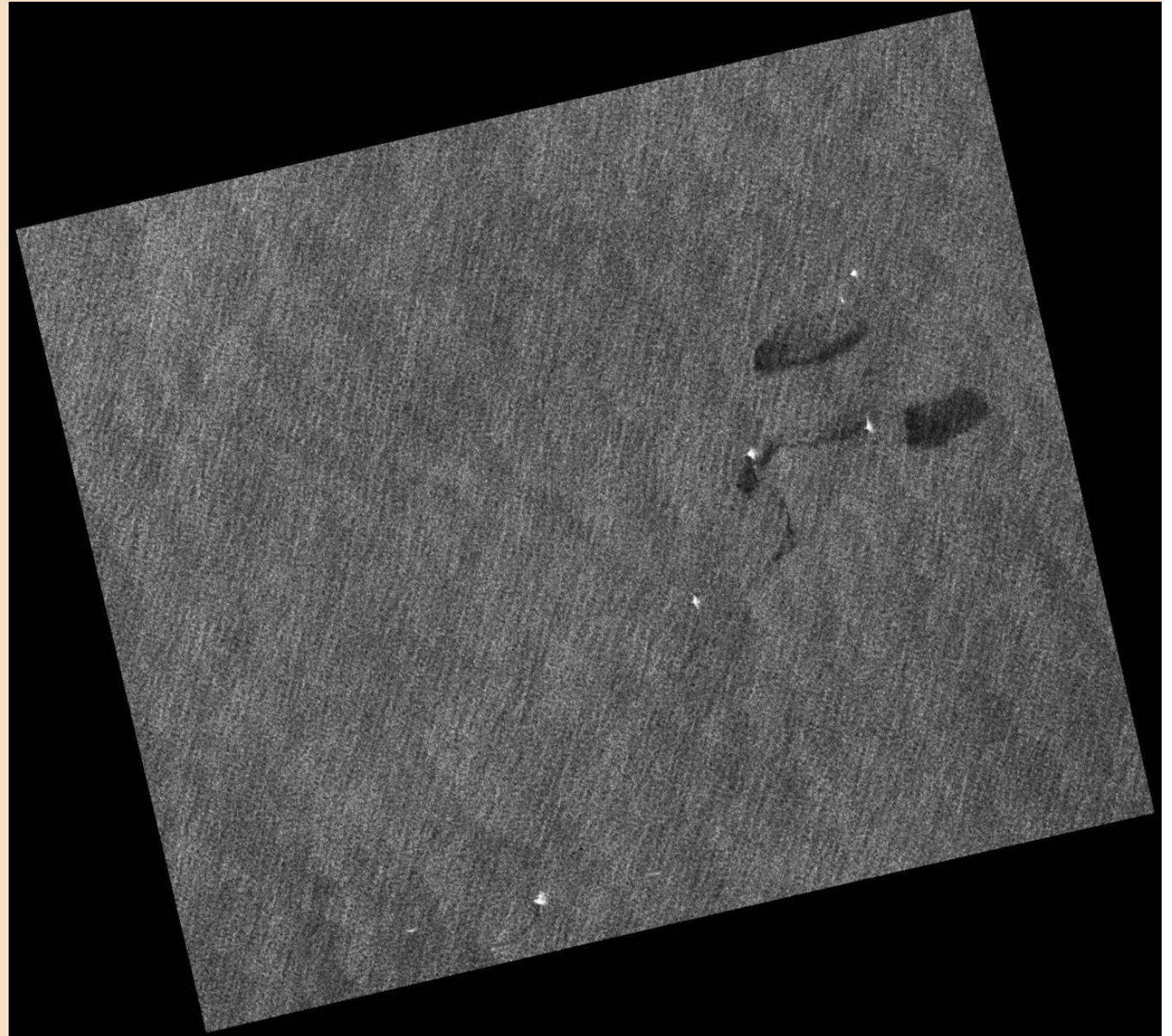
Helitrans/StatoilHydro/NOFO

Contrast Enhanced

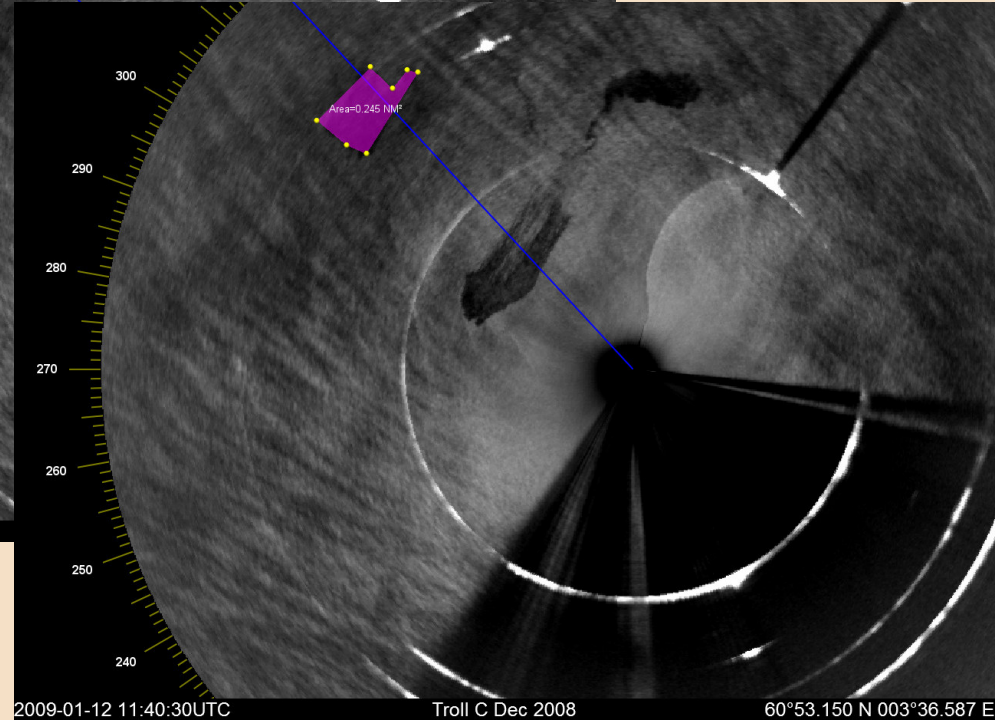
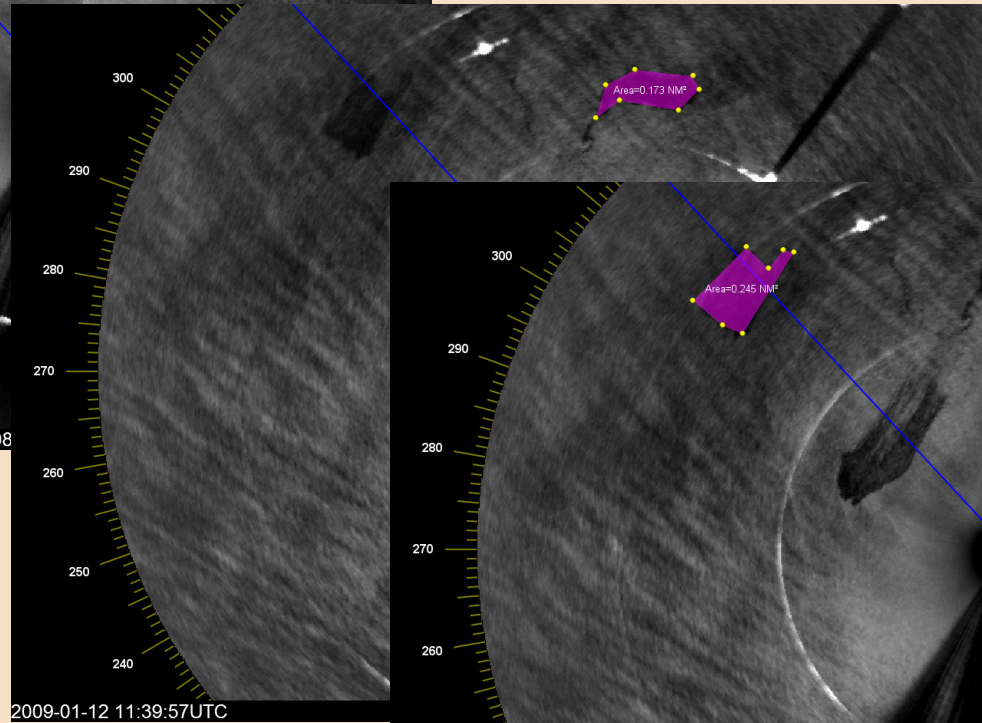
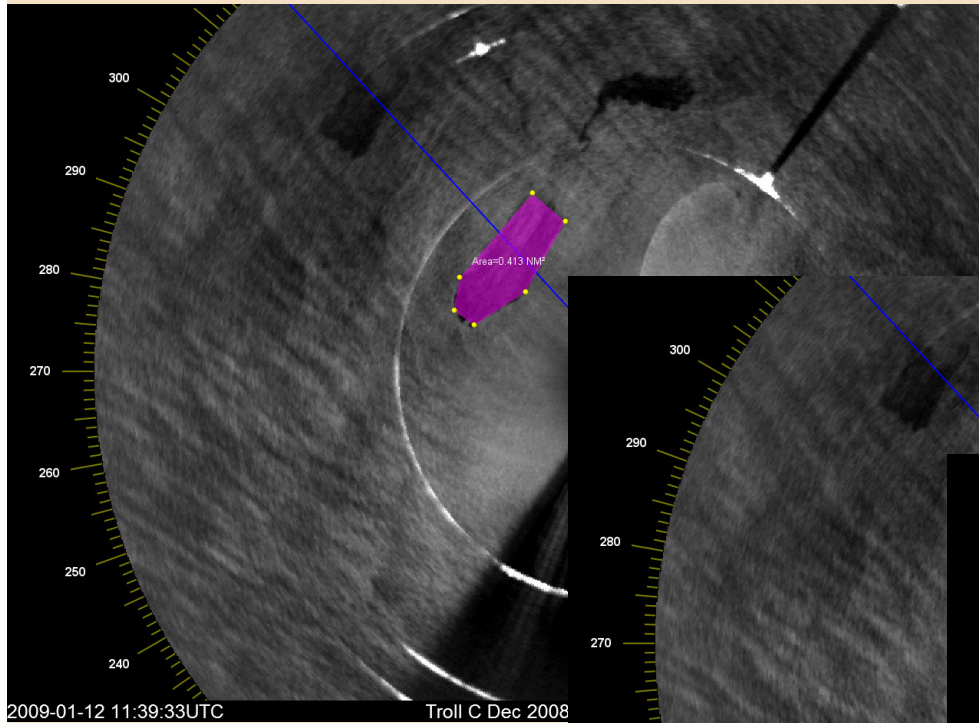


Enhanced image was obtained by reprocessing one of the recordings with a different number (128) of radar images in the radar stack. Also the relative brightness of the image was altered with the on screen controls.

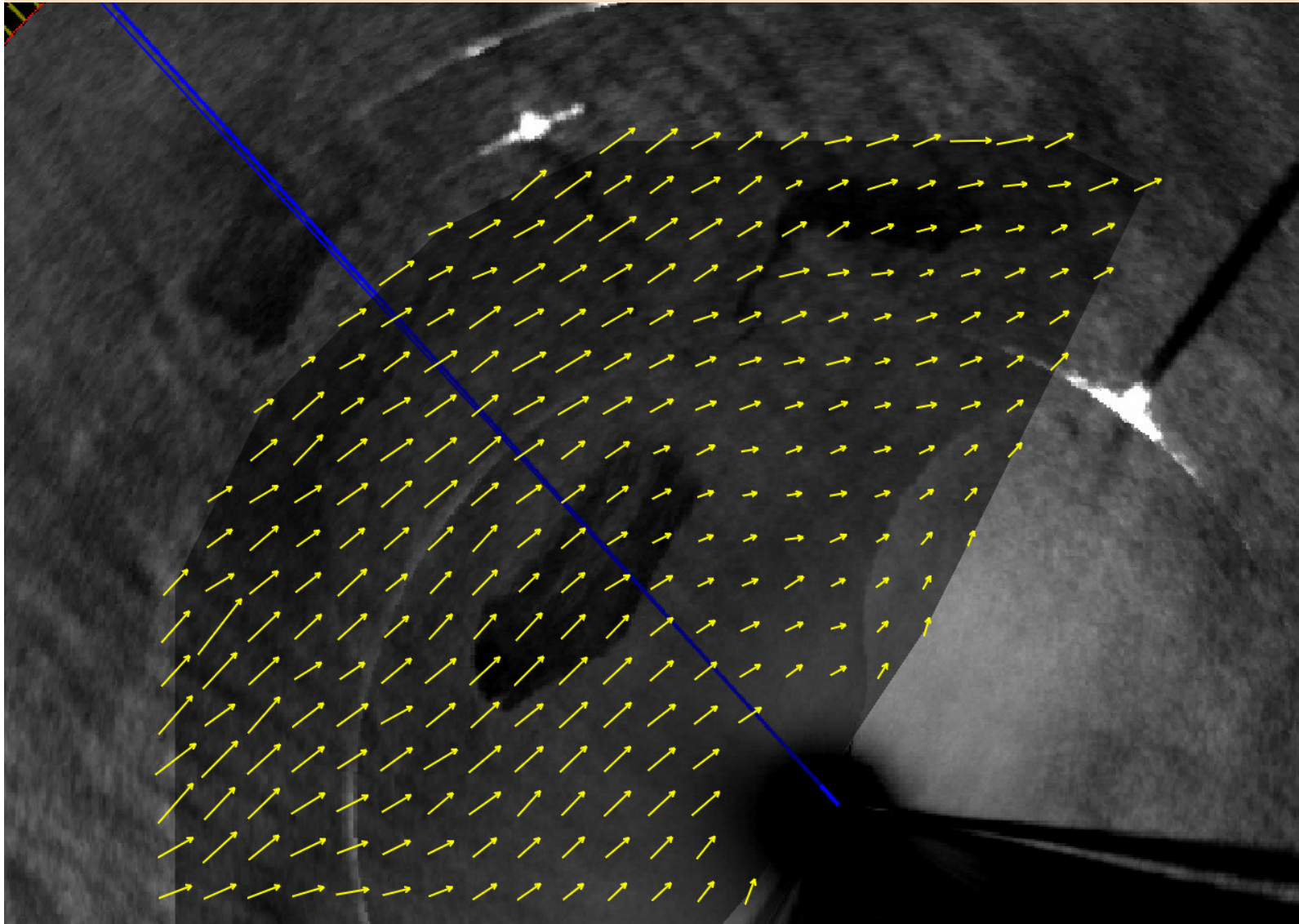
Satellite Image of Oil Spill



Spill Sizes



Surface Current Field



Average surface current 0.2 m/s.

The surface current field is calculated by the SeaDarQ system from the radar images.



Comments Regarding the Test

The wind speed was 3 m/s which limited the detection range to approx. 3.5 Nm.

This is as predicted by the Carpet modeling program.

As expected from previous experiments done by SeaDarQ, VV polarization gives the best results.