



# ***EXPERIENCES USING CMSC AS A COMMAND CENTRE DURING OIL SPILL EXERCISE***

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# **Oil and chemical response in Finland**

**The Ministry of the Environment**

**Is responsible for the management and control of oil and chemical spill response x)**

**The Finnish Environmental Institute (SYKE)**

**Is responsible for organizing and developing the measures needed for damage prevention and response. x)**

**Take care of oil accident response in open sea**

**The regional environmental centres**

**Steer and control the municipalities as well as the owners of harbours, docks, and industrial and storage plants which are obliged to organize oil spill response measures x)**

**Regional Rescue Centres (RRC)**

**Take care of oil accident response in the sea area (not open sea) and in the land**

**(RRC's Oil spill prevention plan 2009-2013: Tools and equipments for 380 rescue workers, 12 500 m oilboom, 3 oil collecting/oilboom vessels, 3 tender vessels ) Financed mainly by Fund for Oil Protection**

**x) [www.ymparisto.fi](http://www.ymparisto.fi)**



# Oil Spill Scenario

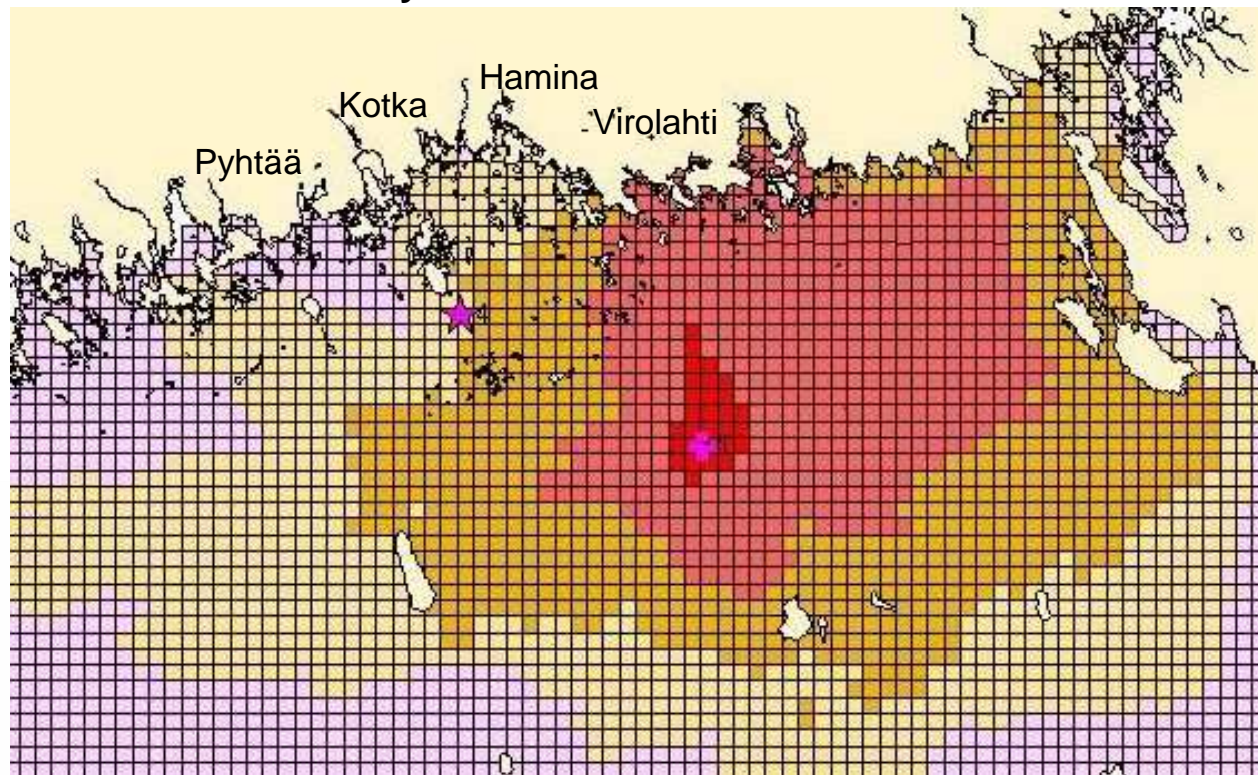
Evaluation time: 10 days

Spilling time: 8 hours

Spillage: 30 000 tonnes of crude oil

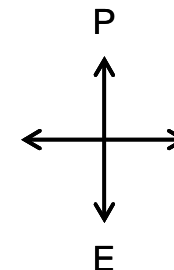
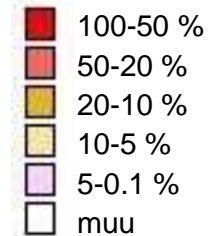
Thickness of oil layer: 5 micrometers

Mathematical model by Finnish Environmental Institute 2005



Probability of spreading [%]  
within 10 days

Todennäköisyys:



10 km

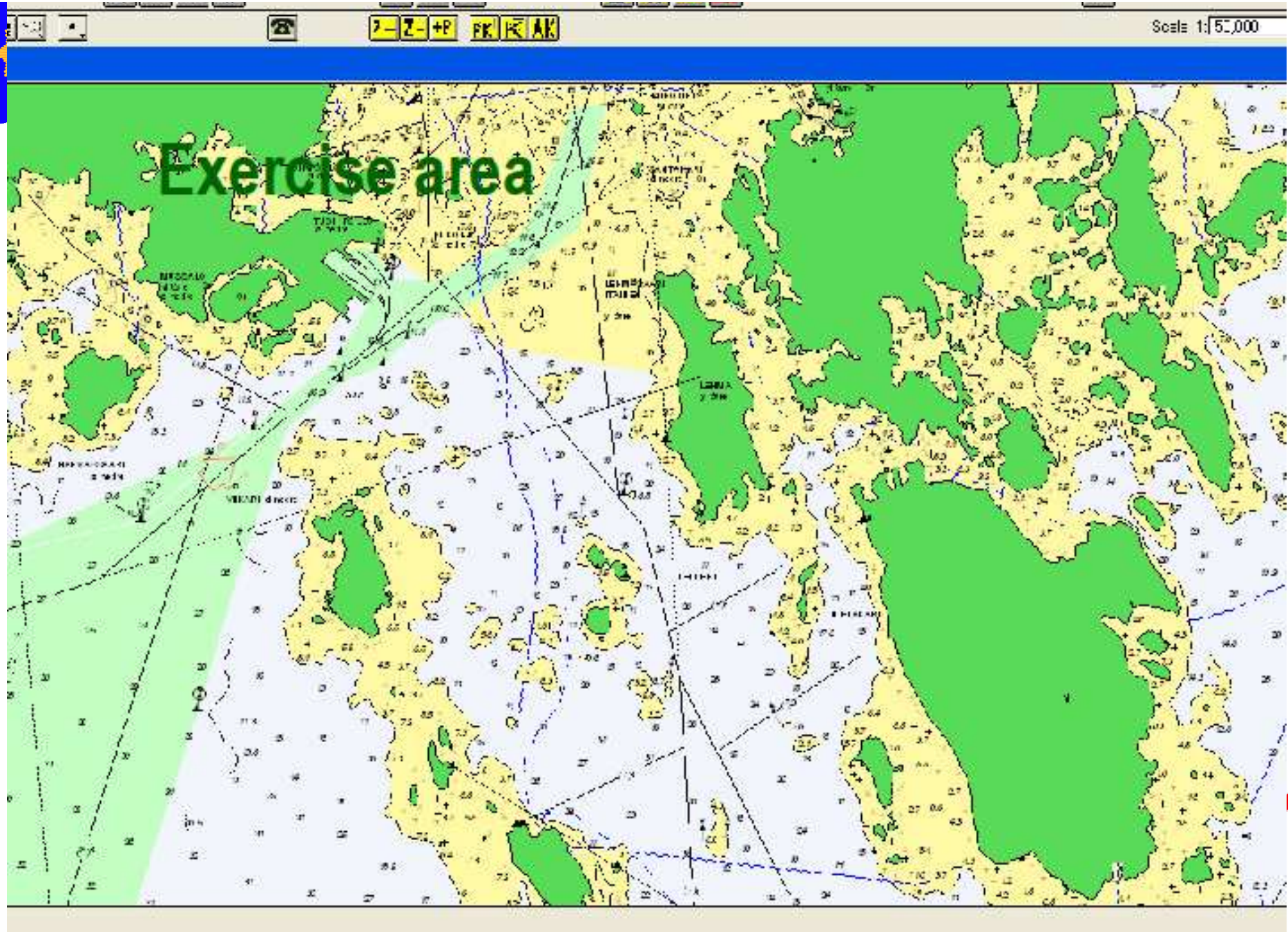


# ***Operational Oil Spill Response Exercise between Finland, Russia and Estonia KOTKA 2009 (27.-29.April 2009)***

***Spill intensity: 2 500 t/hour ~ 4 hour leak***

***Place: 43 km from Kotka, outside of the  
Finnish territorial waters***

***Time of accident: 02:00 (27.4.2009)***



Kymenlaakson pelastuslaitos



32 hours from the accident, 10:00 28th April 2009: EXERCISE TEAM of 7 oil recovery ships start response actions



1. Yasniy
2. Hylje
3. Seili
4. Kati
5. Sektori
6. Oili
7. Merikarhu



## ***RRC command centre 28.4.2009***

RRC vessels (6):

- SUIHKU, 18 m oil collecting vessel (water diving possibility)
- SUIHKU I, 10 m tender vessel
- SUIHKU III, 10 m oil collecting vessel
- SUIHKU IV, 16 m oil boom vessel
- LAUTTAVIRO, 16 m oil boom vessel
- MERIVEHKA, 10 m tender vessel



**300 m oilboom  
from the shore of  
the Lehmä island**

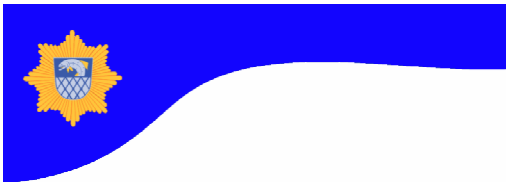


Kuvassa puomin lasku Lehmäsaaren rannasta länteen päin.

**SUIHKU III  
Collecting oil  
near the Lehmä  
island**



Kuvassa öljynkeräystä Lehmäsaaren länsipuolella.



## **RRC command centre**

**-Place: Kotka Maritime Centre**

**- Staff: 1+3+0+0 and a specialist from Maritime Centre using Crisis Management Simulator**



Kuvassa: vasemmalta Ilpo Tolonen, Kari Ylönen, Esa Aalto Pelastustieto lehden päätoimittaja ja Vesa Leinonen





## ***EXPERIENCES***

- The Finnish Environmental Institute (SYKE) was in charge of the exercise and in the local level the captain of HYLJE (military vessel)
- RRC establish a command center for Fire Service
- A specialist from Maritime Centre was using Crisis Management Simulator
- Almost all the information came from SYKE (situation of oil and tasks of the big vessels; from Russia, Estonia and Finland)
- RRC command center had a real time information about the location of the big vessels



# ***EXPERIENCES***

- The situation information of the Fire Service vessels had to put by hand to simulator
  - > Also the information where the oil was. Because SYKE have different program to estimate oil spreading
- The situation of oil boom was easy to put to simulator and also what part of the shore Lehmäsaari was covered with a special oilcarpet
- Command center could have almost a real time information about oil combatting



## ***EXPERIENCES***

- There is a need to establish the Command Center in Fire Station
- How to transfer the Simulator information to command Center ?
- Are there always a specialist available to use Simulator ?

CRISES MANAGEMENT SIMULATOR IS A GOOD HELP FOR KYMENLAAKSO REGIONAL RESCUE CENTER IN CASE OF POSSIBLE BIG ACCIDENT