

DELIVERING DATA TO FIGHT WILDFIRES AND PROTECT FORESTS IN SWEDEN

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SWEDISH MAPPING, CADASTRAL AND LAND REGISTRATION AUTHORITY





WILDFIRES IN SWEDEN SUMMER 2018





REQUEST FROM REGIONAL COUNTY

July 18th, late night
The county
administrative board
reached out to
Lantmäteriet asking
for support by GIS
operators to be
placed in the crisis
management staff in
Ljusdal (Färila)





REQUESTING THE SWEAF GEOCELL

July 19th, early morning Lantmäteriet requested the Swedish Civil Contingencies Agency (MSB) to send a formal request to the **Swedish Armed Forces** (SweAF) duty officer asking for support to the wildfire fighting by deploying the Geocell.

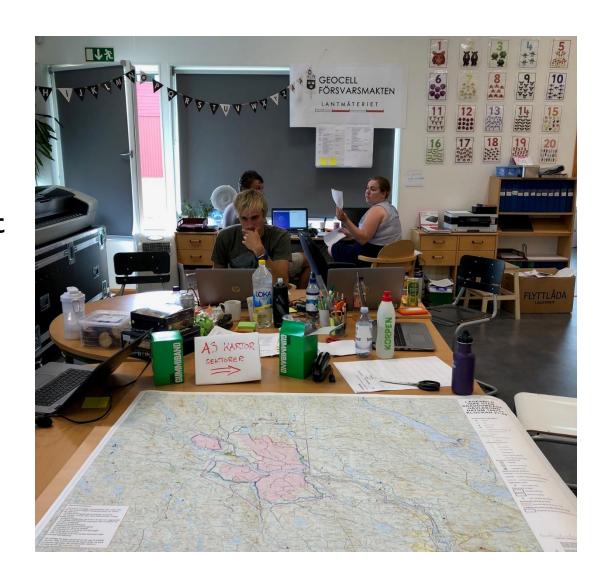




REQUESTING THE SWEAF GEOCELL

July 20th, afternoon
Lantmäteriet establish the
SweAF Geocell at the
regional crisis management
HQ at Färila School, 350
km north of Stockholm.

24 hours Geosupport managed by 4 geo-analytics.





ORGANIZATIONAL DETAILS

4 persons incl. I Geocell Chief and 3 GIS-officers.

Working directly under Fire Analysis Group.

Part of General Command Staff including representatives from Fire and Rescue Service, Police, Armed Forces, County Administrative board, Transport Administration.





SUPPORTING THE RESCUE LEADERS AND ACTIVE PERSONNEL

Primary assignment of the Geocell was to support the operation with situational awareness, by producing every day approx.

- 700 maps, scale 50K, size A3
- 50 maps, scale 50K, size A0

Secondly to support analysis and decision-makers with geographic information.



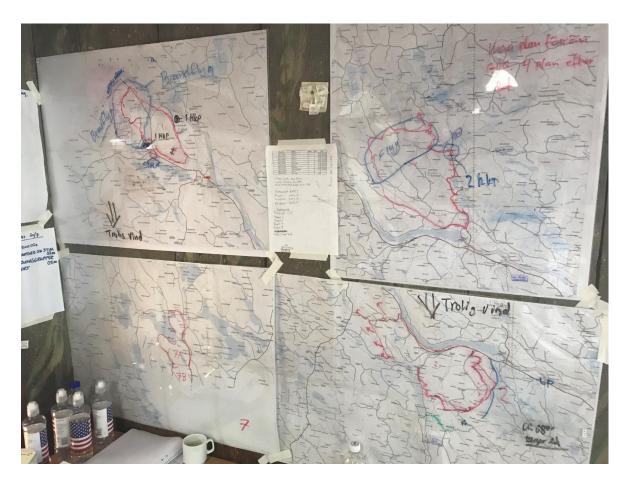






BEFORE

AFTER







DEPLOYED GEOCELL

Equipment

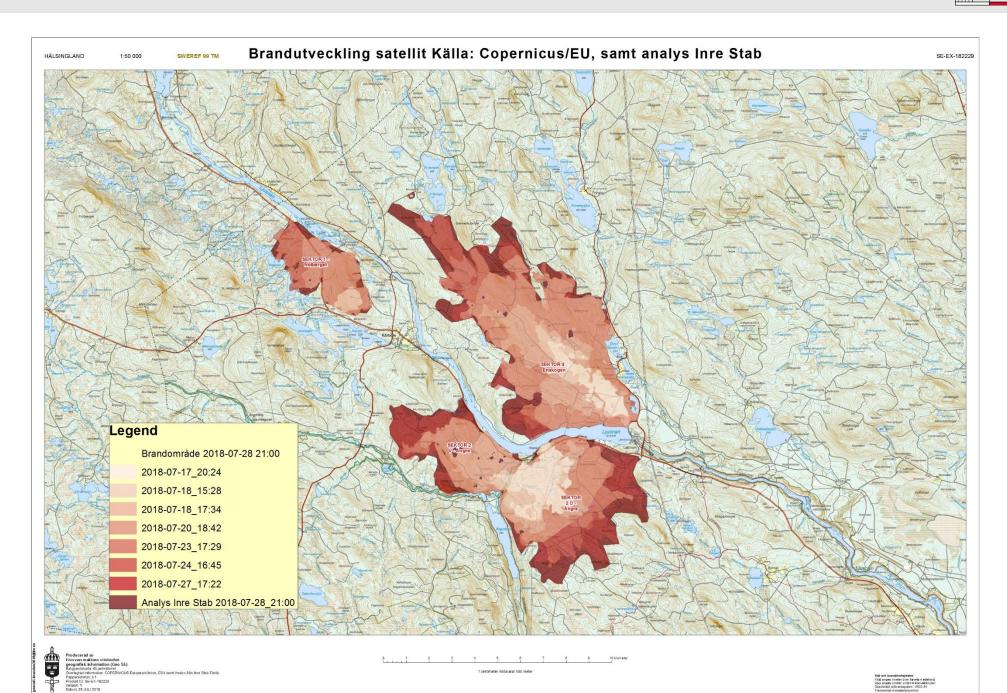
- 4 laptops
- A3-printer, ~1000 A3-maps/hour
- 42 inch plotter, ~20 A0-maps/hour
- NAS for data storage, UPS battery backup
- Ipad for collecting data and information
- Software: ArcGIS, FME, Global Mapper

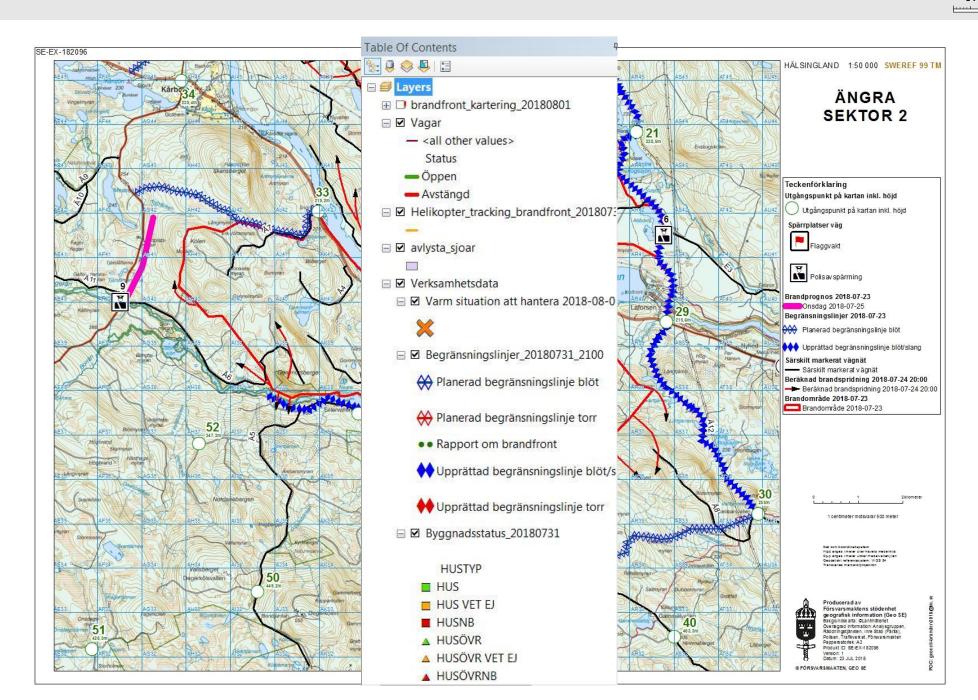
HW and SW has to work offline without internet access.

Logistic:

Self-supported for 3 days; food and sleeping.







LESSONS LEARNED

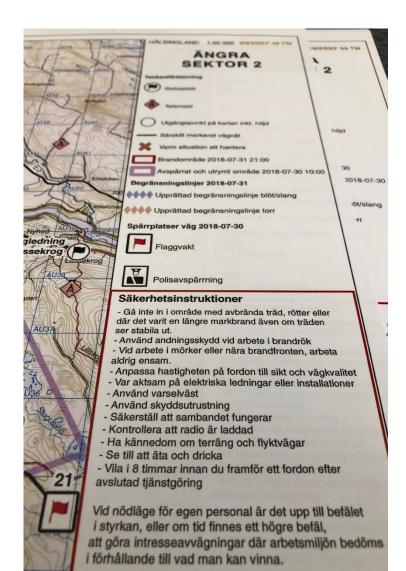
Feedback from staff and field personnel very positive.

The Geocell filled a previously missing resource and added a new dimension to the operation.

Lack of knowledge in respect to the usefulness of geographic information and GIS, especially thematic data, e.g. biomass, vegetation, proximity to water, soil humidity.

First time a Geocell was incorporated in a civil crisis management staff – need to define requirements, responsibilities and organisation.

Huge amount of collaborating organisations, apart from Swedish authorities and NOGs; Poland, Germany, Italy, France, Portugal, Lithuania, Finland, Norway, Denmark and six firefighters from Greenland.





Thank you for listening

