



SCIENCE AND EDUCATION **FOR**
SUSTAINABLE
LIFE



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Lars Thorell and Mattias Sköld

What is SLU?

A world-leading university in environmental and agricultural sciences

Education

Research

Environmental Monitoring and Assessment

University animal hospital



Purjo

Nova Scotia Duck Tolling Retriever

Photo: Jenny Svénnås-Gillner, SLU

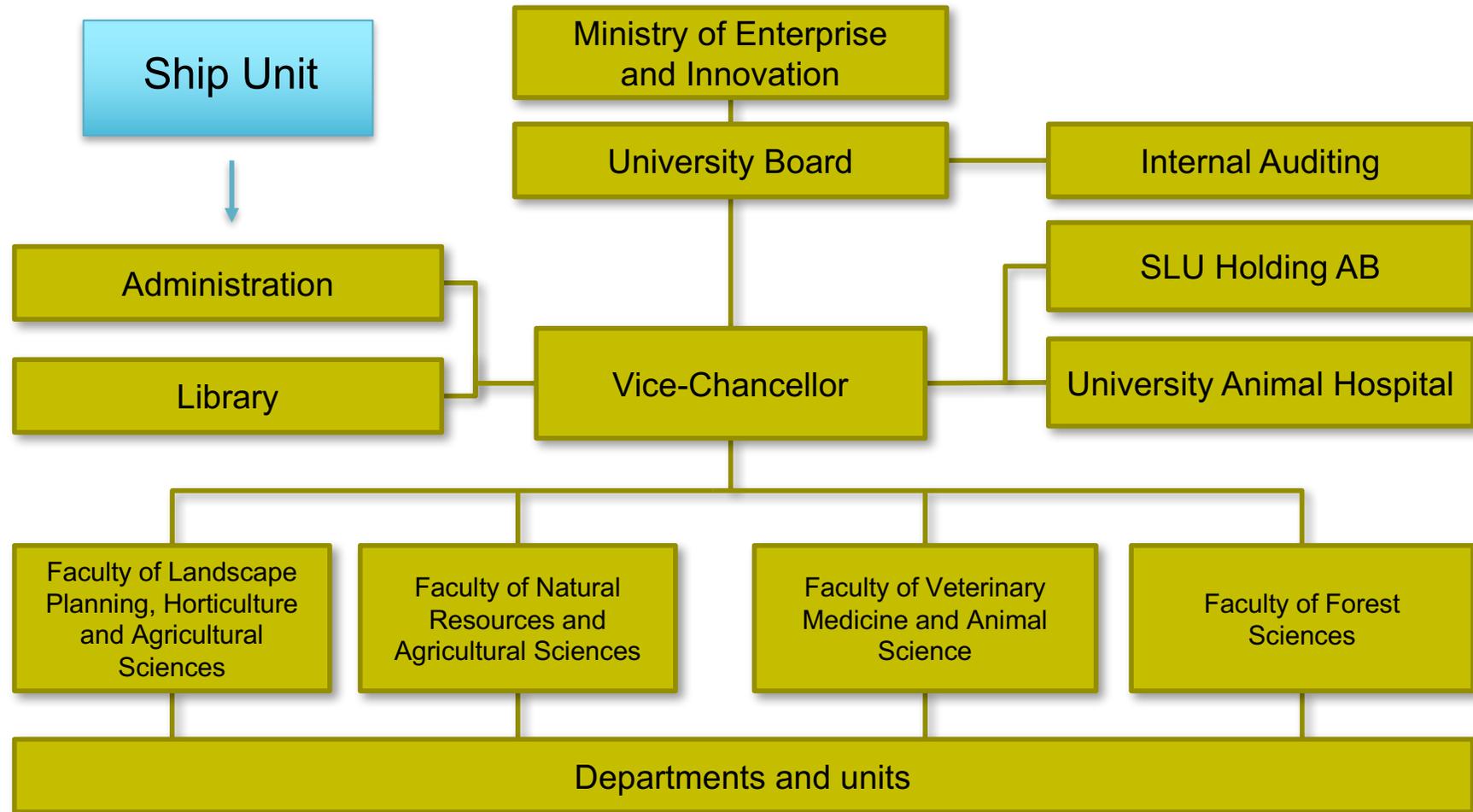
SLU nationwide

SLU is a university with a nationwide presence, its largest campuses being at Alnarp, Skara, Umeå and Uppsala.

SLU has a focused profile, unique in Sweden in areas of strategic importance to society, nationally and globally.



Organisation





Environmental monitoring and assessment

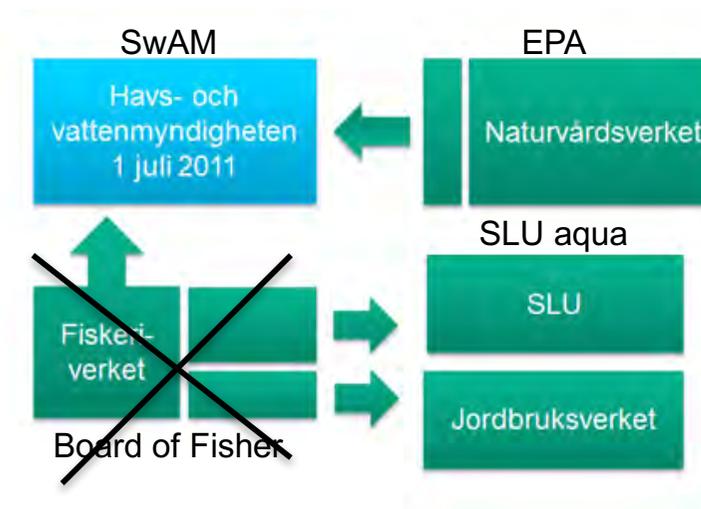
SLU has a unique purpose that sets it apart from other universities in Sweden. Since 1997, SLU has been conducting extensive environmental monitoring and assessment, by request of the Swedish government.

The programme reflects Sweden's commitment to international conventions and directives in the international area.

SLU Aqua

-former department of R&D of the Swedish Board of Fisheries

- Governmental decision to separate research and management
- SBF was closed down June, 2011
- a new governmental authority - Swedish Agency for Marine and Water Management (SwAM) was established
- R&D a new university department – Dept of Aquatic Resources (SLU Aqua)



Department aquatic resources SLU aqua

- 180 employees approx. 60 scientists
- Experimental facilities at Älvkarleby, Drottningholm and Öregrund



Institute of marine research Lysekil

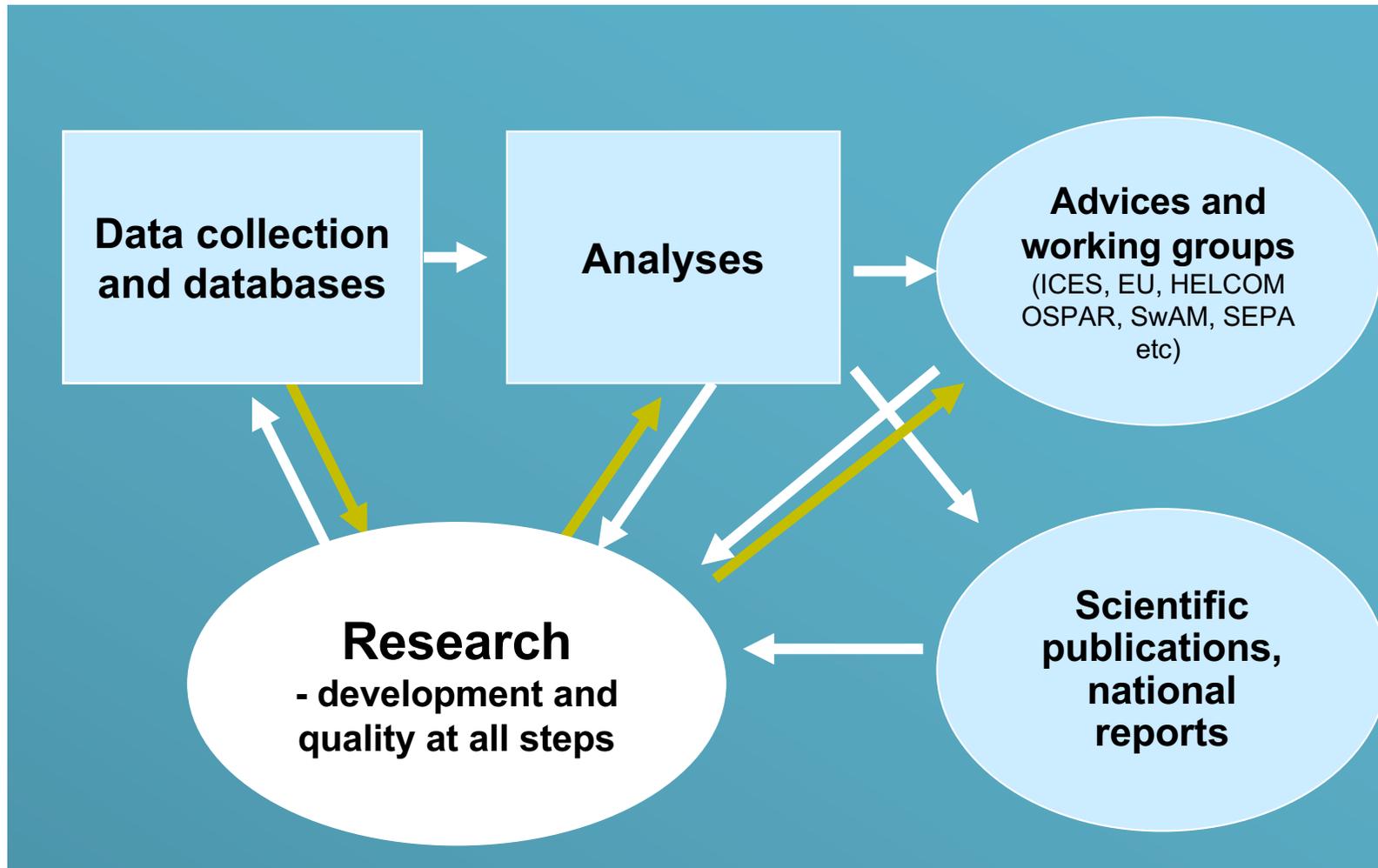


Institute of coastal research Öregrund



Institute of freshwater research Drottningholm

Field of activities - from data collection to advice and research



Focus areas

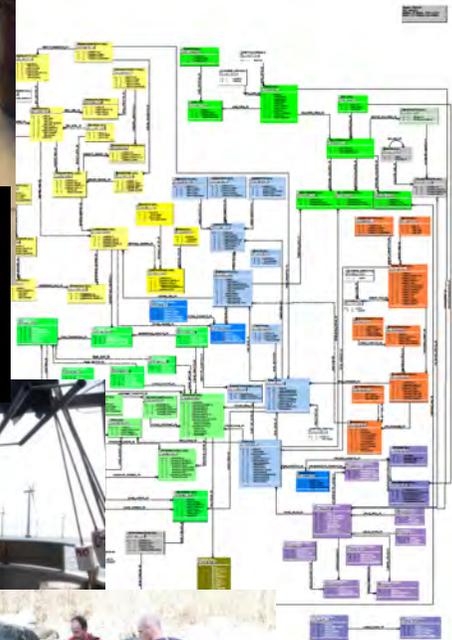
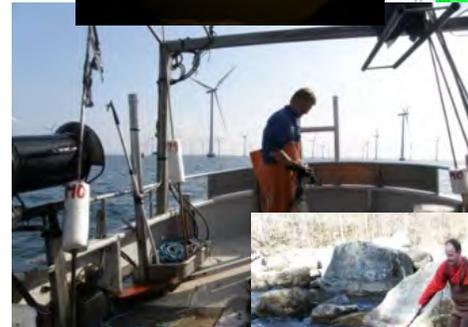
data collection and databases

-follow and assess status and development of fish stocks and aquatic ecosystems

-impact of resource uses and environmental changes on fish and aquatic ecosystems

- quality assured fish- and environmental data

- long term trends and data availability





Database fish surveys SLU Aqua



analyses and research

- structure, assessment and development of fish and shellfish stocks
- ecosystem analyses and food web interactions
- spatial and temporal analyses of fish and fisheries
- anthropogenic impacts on fish and ecosystems
- fishery management and methods
- aquaculture and its effects
- impact of management actions and development of management advice



Time devoted

Participate in approx. 60 ICES working groups per year

Devotes almost 30 man-years in various projects internally in ICES work

Participate in ca 30 projects with SWaM which is related to different kind of advice

- Fisheries management (STEFCF)

- Technical regulations (STEFCF)

- EU directives

- Regional fisheries management organizations

- HELCOM OSPAR

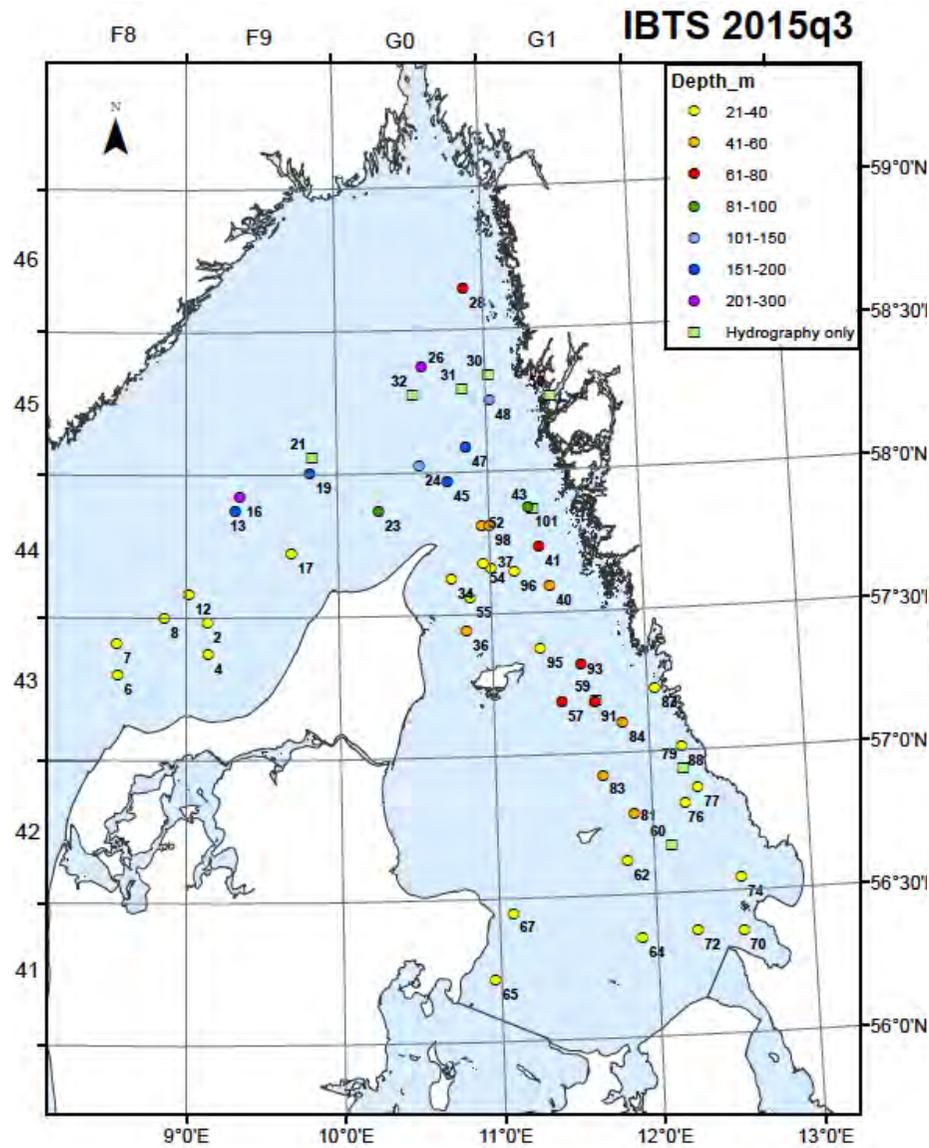


Foto: Olof Lövgren



"UF Argos" 2009 Foto: Marcus Roos

SLU operation areas



0 5 10 20 Nautical Miles


45 giltiga hal/valid hauls
 1 extra kaliberingshal/calibration haul
 9 extra hydrostationer/hydro stations

IBTS 2015q3 BJB 150007
 WGS 84 UTM Zone 32N

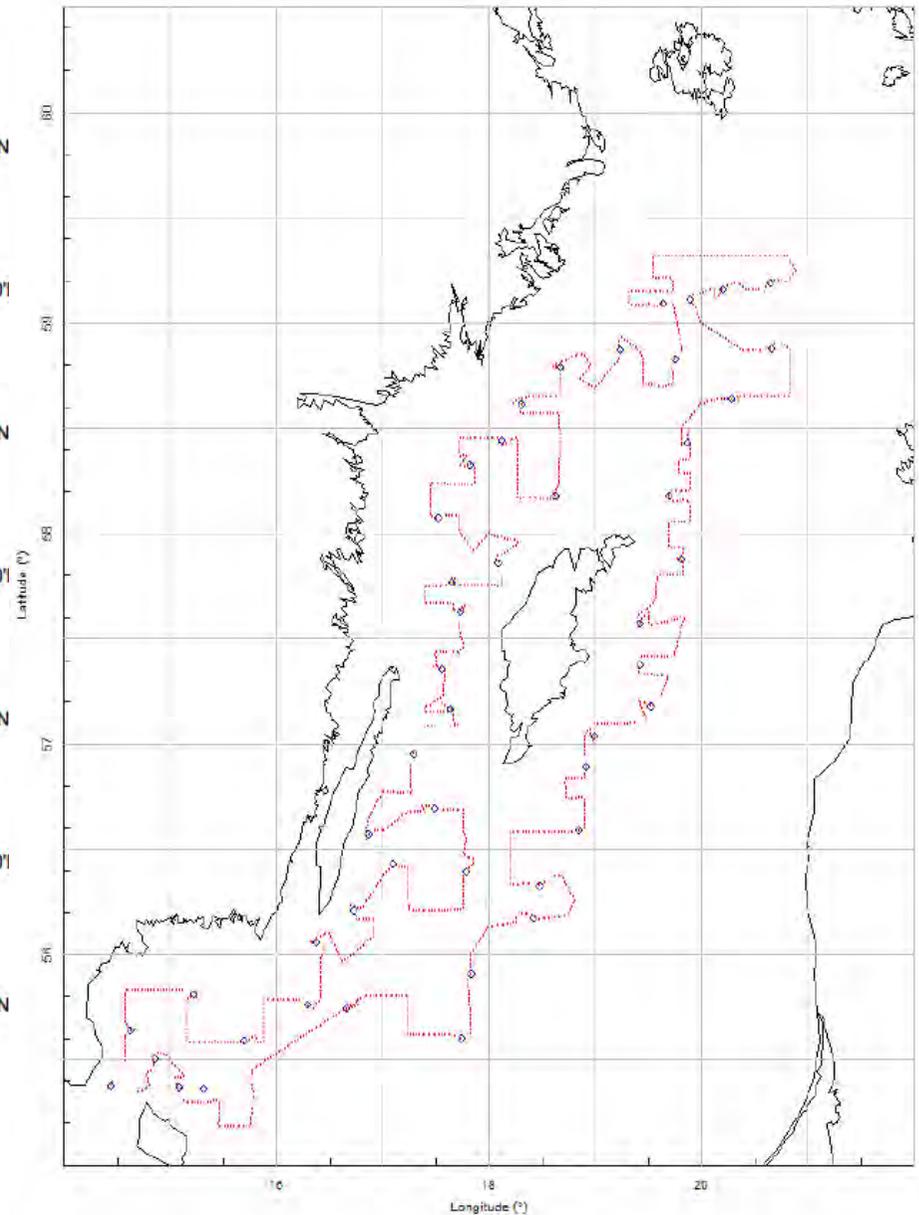
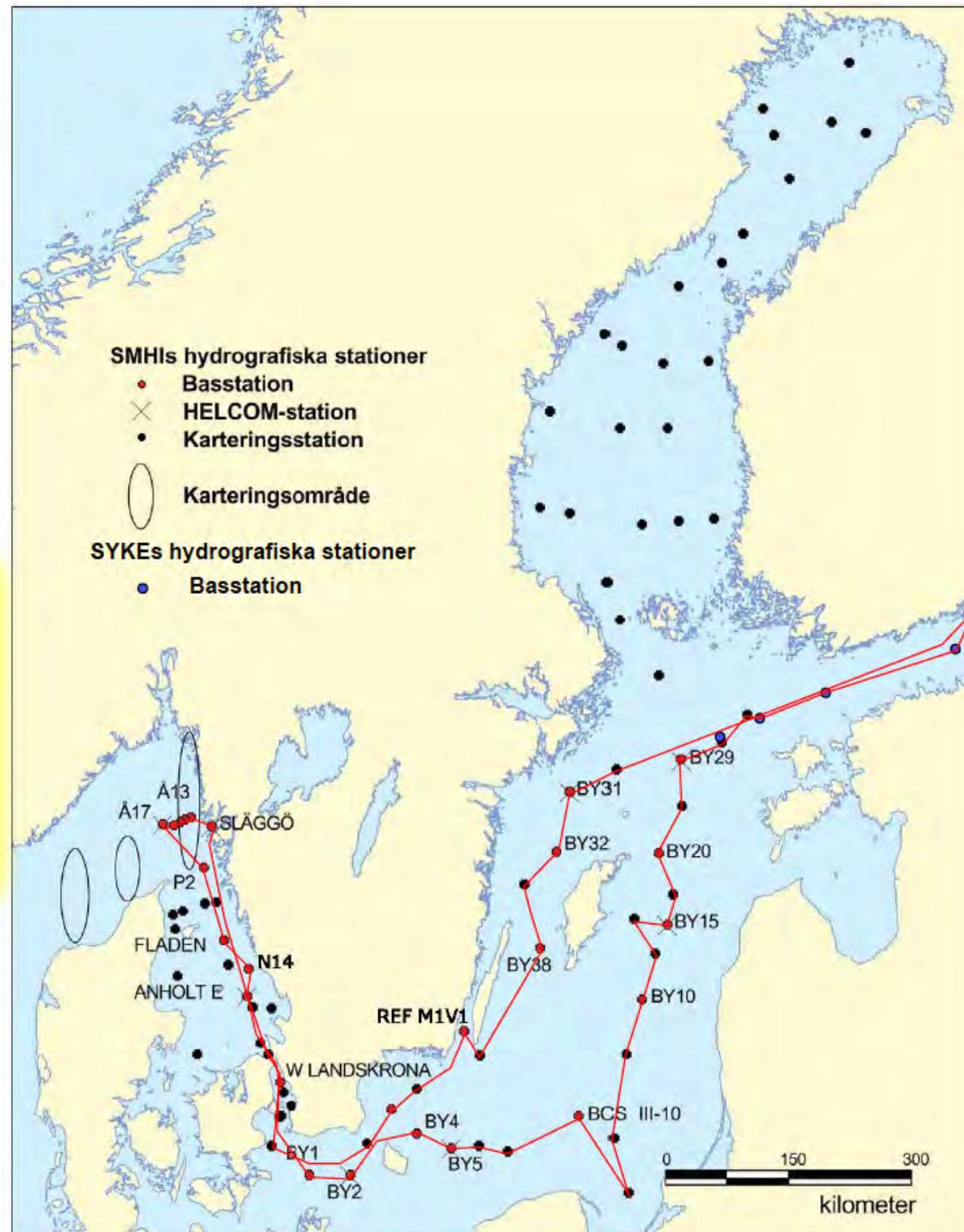


Figure 2: cruise track(red), positions of trawl hauls (blue) and survey grid (ICES squares)(grey)



SMHI

Monthly 1
week
expeditions



DTU – SLU

- Close collaboration on the DCF fish surveys IBTS, BITS, ASH and UWTV - *Nephrops*



On the RV Dana and the RV Havfisken



The SLU fleet



New research vessel 2019



RV Asterix
(12 X 3.9 m)
Trawling
Hydroacoustics
UWTV- Nephrops



RV Hålabben
(7.9 X 3 m)
Trawling
Hydroacoustics
UWTV- Nephrops



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