



Storm Weather Center

*Gjennom kreativitet, kunnskap og begeistring skape
pålitelige værvarsler og tryggere væroplevelser for fiskeoppdretteren*





SWAPS – Data Production

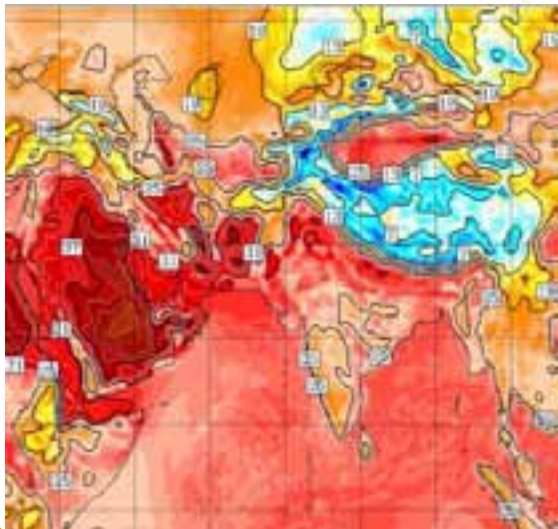
Examples

- High level of local detail
- High forecast accuracy

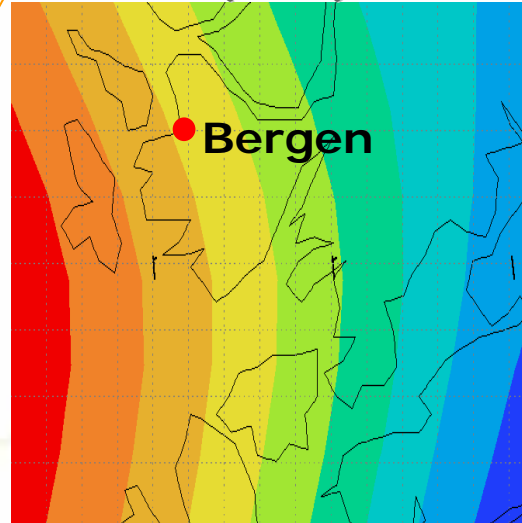
Globally operational model set-up covering all scales from ultra local to global

[demo](#)

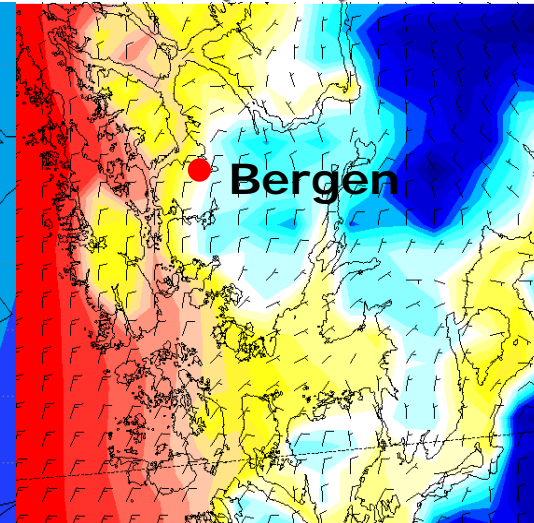
T2m India



Hirlam 50 (DNMI)

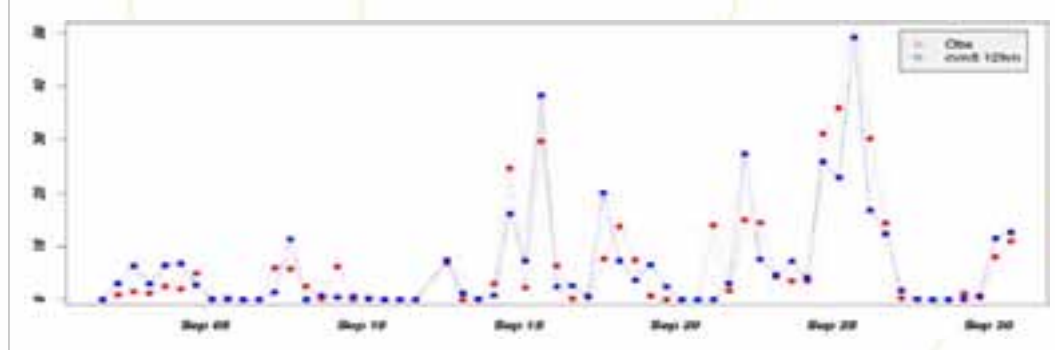


MM5 4km (Storm)



Temperature and wind forecast

PREC Verification Takle



30h prog, 12h accum.
precip.

Bias: -0.85 mm., correlation: 0,75



SWAPS – Data Production

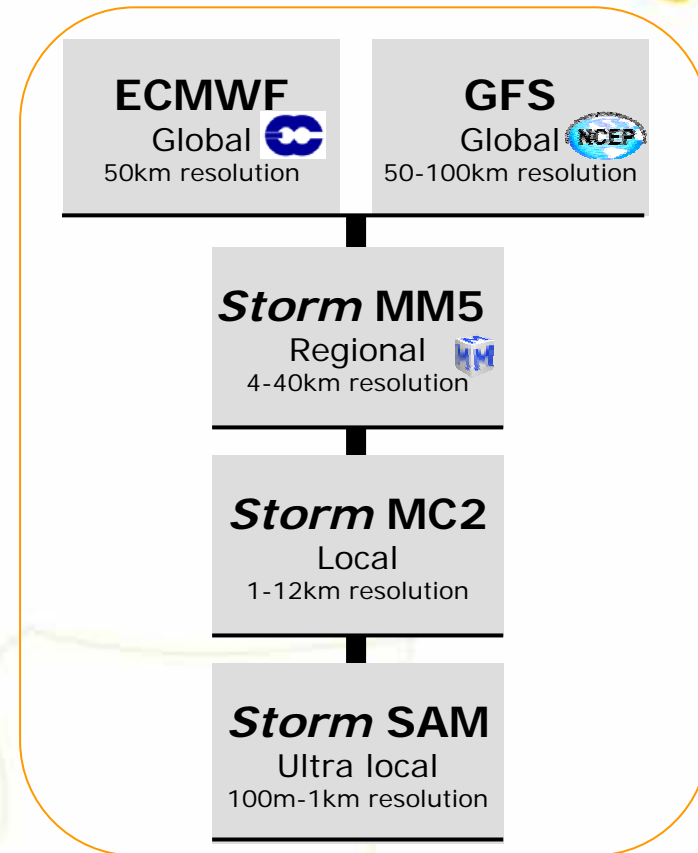
NWP operational set-up available from Storm

Globally operational model set-up covering all scales from ultra local to global.

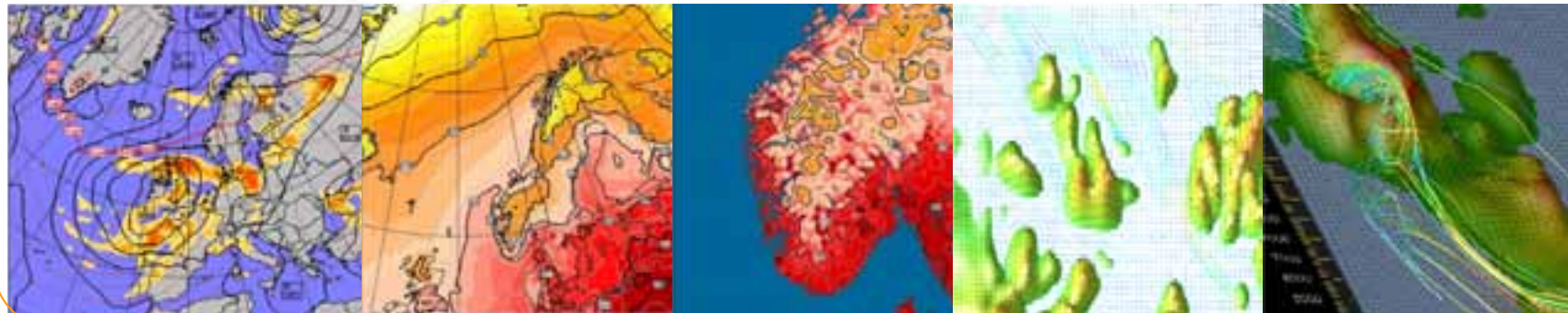
Both operational products and full external installations of our numerical prediction systems are available.

- PSU/NCAR MM5 for the regional scale
- Canadian MC2 for the local scale
- Our own Storm Airflow Model (SAM) for fully operational 3D modelling of the ultra fine scale domain down to under 100m horizontal resolutions!

[demo](#)



MM5 36km → MM5 12km → MM5 4km → MC2 1km → SAM 100m





Introducing "Weather On Demand®"
WOD frontend production system
first ever location based weather service



Weather On Demand®

first ever location based weather service

Revolutionary

- WOD is the only weather service in the world where you at any time can get the weather forecast for any given location

Global Coverage

- WOD is available globally, including approx. 50.000 named and endless unnamed locations for every country world wide

Flexible

- WOD is specially tailored to serve users on platforms such as web, SMS, WAP and MMS

High Quality

- All data and meteorological corrections on webserver

Data content

NWP model data

- GFS, global, 4 times daily
- ECMWF, Europe, 2 times daily
- MM5, regional, 2 times daily
- MC2, local, 2 times daily
- SAM, ultra local, on demand
- WW3 (wave), global, 4 times daily
- WAM (wave), regional, daily

Observation data

- Synop, global, 3-6hr update
- Metar, global, 30min updates
- Satellite, global, 30m-6hr update
- Radar, local, on demand

Additional data

- Forecast texts, on demand
- UV, pollution etc, on demand



Data Correction Schemes

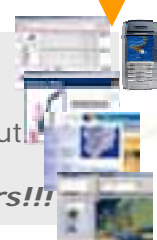
- Area MOS: precipitation and temperature
- Area Kalman: temperature
- Manual: on demand (rig moves)

Data Extraction

- Request: http
- Delivery: XML, GRIB, Text etc

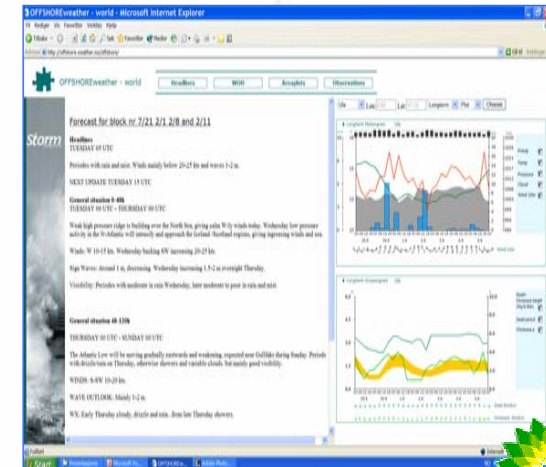
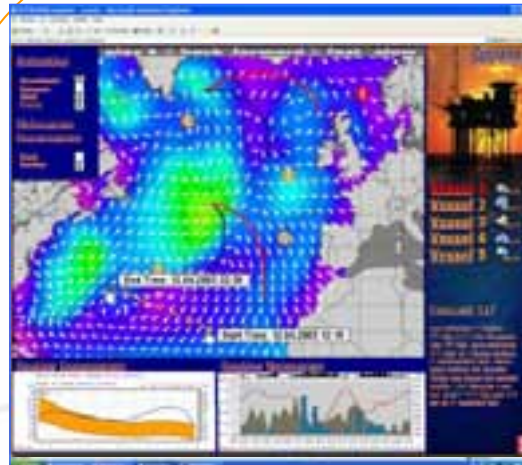
Applications

- TV: viz|weather
- Internet: Numerous solutions
- Telcom: MMS, SMS
- **Application developers!!!**



WOD - Offshore services

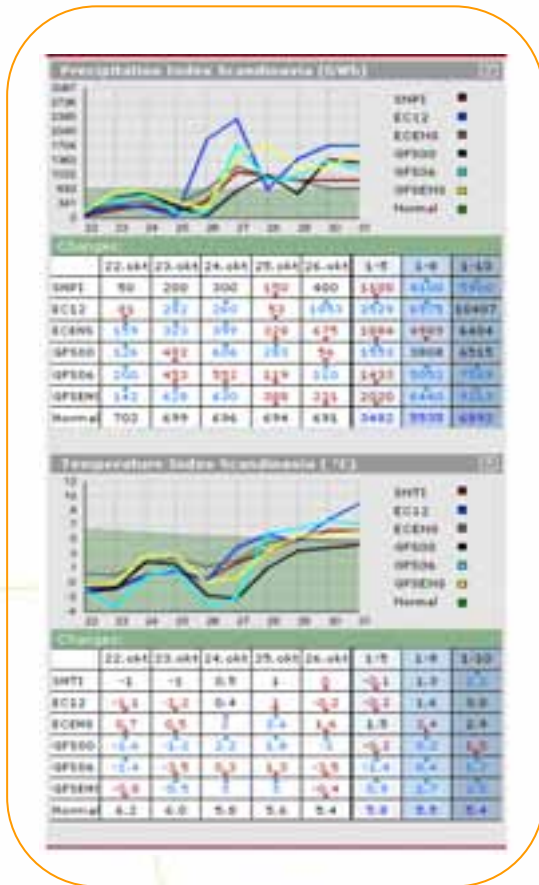
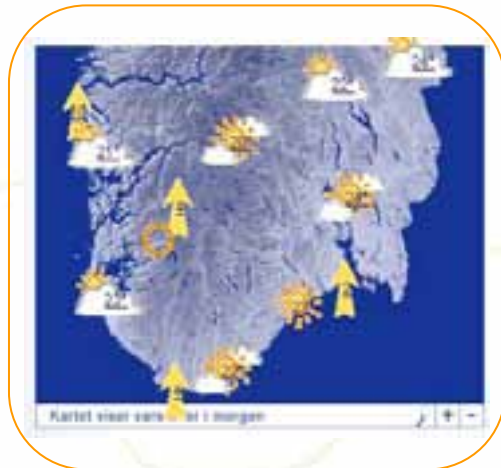
- OFFSHOREweather web portal
- Ad hoc oilrig onsite service
- Ad hoc web portal
- Routing services
- Ultra-local fish farming web-product





WOD – Storm Graphical System

first ever location based weather service



BERGEN: 10 meter over havet

3 dag:

| | | |
|---|-----------|-------|
| Forniddag | Ettmiddag | Kveld |
| ☁ 20°C ☁ Svak vind 2m/s ☁ 18°C ☁ Lett bris 4m/s ☁ 16°C ☁ Svak vind 2m/s | | |

3 morgon:

| | | |
|---|-----------|-------|
| Forniddag | Ettmiddag | Kveld |
| ☁ 18°C ☁ Lett bris 4m/s ☁ 18°C ☁ Svak vind 2m/s ☁ 14°C ☁ Svak vind 2m/s | | |

1 uke tid:

| | | |
|--|--------------|--------------|
| Lørdag 21.08 | Søndag 22.08 | Mandag 23.08 |
| ☁ 14°C ☁ Svak vind 2m/s ☁ 13°C ☁ Løst bris 6m/s ☁ 15°C ☁ Flu vind 1m/s | | |

Basert på standardisering Bergen

Elliv Gunleiksrud

Demo fish company Norway Mid-norway Munkholmen Munkholmen West

Superior Manager

Økonomi

Sporing/Superior CV

Planlegging

Notlogg/utstyr/vedlikehold

Veterinær/Kvalitet

SiteControl

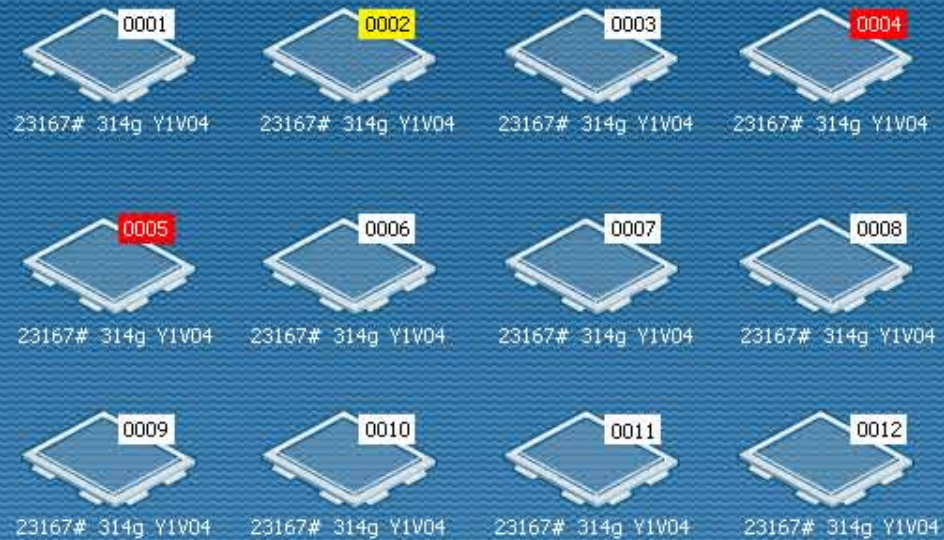
Superior XO

Akva Prosesskontrol

Storm Weather Centre

Trygg Mat

Integration Manager



Akvasmart Farm Suite

File Edit Site Manager Site Control Feed Monitor Administration Window User Help

Akvasmart Farm Suite

Elliv Gunleiksrud

Superior Manager

Beskrivelse

Demo

Fordeler

Gevinst

Økonomi

Springing/Superior CV

Planlegging

Notlogg/utstyr/vedlikehold

Veterinær/Kvalitet

SiteControl

Superior XO

Akva Prosesskontrol

Storm Weather Centre

Trygg Mat

Integration Manager

Demo Superior Manager

Smart klient

Web klient

Feeding monitor Quality status sitelevel KPI salmon seawater Site managers

Scheduling "Munkholm KPI"

LOC: Munkholmen Vest temp: 10° wind: 5 m/s Tue 12:15

AKVA smart