



# Outline

- 1 Introduction
  - HR-DDS Concept
  - HR-DDS User Interface
- 2 Progress since Villefranche-sur-Mer
  - Architecture
  - New data sets
- 3 Usage
  - About the users
  - New interface prototype
  - Examples of usage
- 4 New Developments
  - Funded developments!!
- 5 Conclusions
  - Final thoughts

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The Medspiration concept of HR-DDS implementation was rather simple:

- To generate for each data chain a collection of common subsets.
- To make these available via OPeNDAP and FTP.
- To make available in some form of quick look imagery

In this sense it really was just an archive of subsets, intended to be used in conjuncture with the MDB as a diagnostic tool for Medspiration.

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The second version of the HR-DDS incorporated a number of major enhancements:

- The concept of limited 'pre analysis' with some geophysical data being stored in a relational database
- Very limited dynamic quick look generation
- Batch download facilities

This system was a vast improvement and paved the way for increased funding and investment in the HR-DDS model.

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We are currently building HR-DDS version 3. Specifically designed to meet the expected requirements of MyOcean, with three major shifts in implementation:

- User specific services, i.e. configuration pages, languages, filtering etc.
- More dynamic user experience, i.e. heated layer calculations or DV model estimations
- More ingestion pathways. Specifically to include wave data and ocean colour data.

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- All computers now run a common HR-DDS 'package', containing the code for the controller, workstation and server configurations. Everything is hot swappable.
- System is now operated by an interactive command program which controls machine load. Processing times for 24 hours of data is now 50 minutes. (Was 18 hours for HR-DDS version 1 and 6 hours for HR-DDS version 2)
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## We are now operationally ingesting the following new data sets

- DMI 0.03 degree foundation analysis SST. This is a interesting product as it gives by far the most spatially complicated SST patterns of all analysis.
- ODYSSEA 0.1 degree analysis product produced by Emmanuelle (?). Comparable to OSTIA but not as smooth.....
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- MW + AVHRR OI 0.25 degree
- SAF L3 'super collated' <sup>1</sup> SST
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These should be ingested by the end of the month, although the L3 product may take a bit longer.

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- The number of user sessions now average approximately 1 per minute.
- Average transfer is in the order of 75 MBytes per day (Note, the average DDS granule is 4 KBytes)
- There are several automatic transfers set up that run once a day - users unidentified so far.
- Surprisingly (?), Google reports there are far more links to 'DDS + pain' than to 'DDS + SST'.....

Google also reports

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## We do have some expected repeat users:

- NOCS, UKMO, MF/CMS, UoE, EUMETSAT, NOAA, CSIRO, ESA
- Interestingly, users tend to be from UK, France, Germany and Canada
- There have been some unusual heavy users - Samsung in South Korea and a High School in Portugal.

However, the most interesting statistic is that only 1 user in the last 2 months found the site from the GHR SST page. Almost everyone else arrived directly or from Google.

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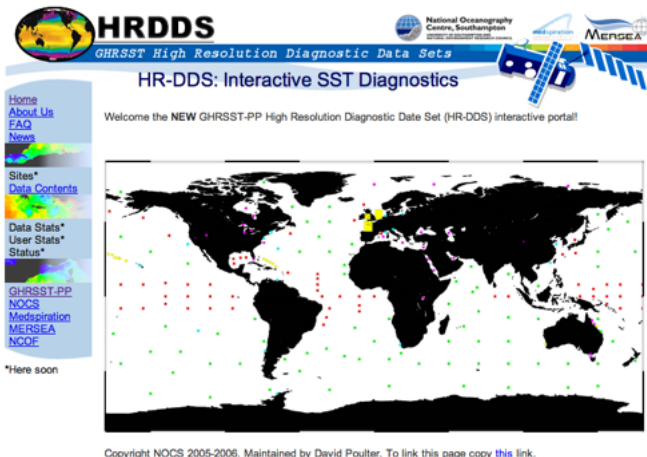
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However, the most interesting statistic is that only 1 user in the last 2 months found the site from the GHR SST page. Almost everyone else arrived directly or from Google.

The old site looked like this (www.hrdds.net):





The new site looks like this  
([medserve.noc.soton.ac.uk/mydds/sst](http://medserve.noc.soton.ac.uk/mydds/sst)):

**HR-DDS**  
High Resolution Diagnostic Data Set

Interactive Sea Surface Temperature Diagnostics (SST)

Your location is [MyDDS](#) -> [SST HR-DDS](#) ->

[Select site from map](#)

This map is the latest analysed OSTIA SST from the UK Met Office. The shapes represent the location of our HR-DDS sites.

In each of these sites, every day, we record every available observation of Sea Surface Temperature along with other useful data.

Click anywhere on the map to zoom in and start your HR-DDS session..

Home  
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Example  
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National Oceanography Centre, Southampton  
Met Office  
ESA  
MENSEA  
TAR  
CSV

## We have the following enhancements to the front page:

- The background is the latest OSTIA image (updated 15:00 each day)
- The screen includes a drop down menu on the left side which perpetuates through the users session
- The screen includes obvious links to FTP, OPeNDAP, TAR and CSV data downloads.

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## New interface prototype

Users had reported the old map interface was cumbersome,  
the new one is easier:

**HR-DDS**  
High Resolution Diagnostic Data Set

Interactive Sea Surface Temperature Diagnostics

Your location is [MyDDS](#) -> [SST HRDDS](#) -> [SST Regional Search](#)

Soon you will be able to register [here](#).

**Regional maps of HR-DDS sites**

This is a regional map of HR-DDS sites. You may click on any of these sites to begin your analysis or choose to move the map either [North](#), [South](#), [West](#) or [East](#). You may also zoom [in](#) or [out](#).

Home  
About  
Document  
Example  
Users  
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Users had reported bad rendering of images in FireFox, and slow page loads.:

- Every dynamic image produced on the site is cached server side for at least 24 hours
- Every dynamic image is thumbnailed to allow better rendering and fast browser performance.
- We have included web object graphics to give a smother feel ti the site

Specifically, 'hourglass' page loading graphics and background fadeouts provide for a more elegant feel...



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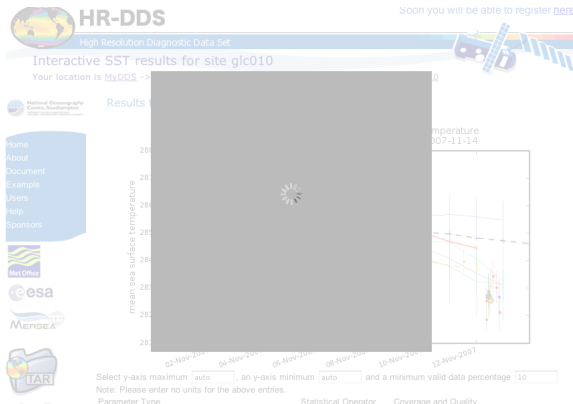
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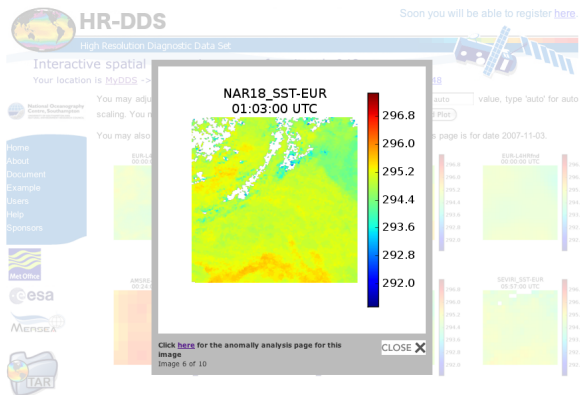
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## Faded backgrounds make the page focus clearer

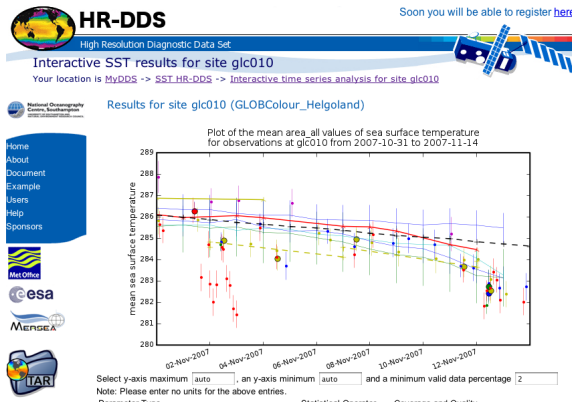


Most images can be enlarged through a server side function:



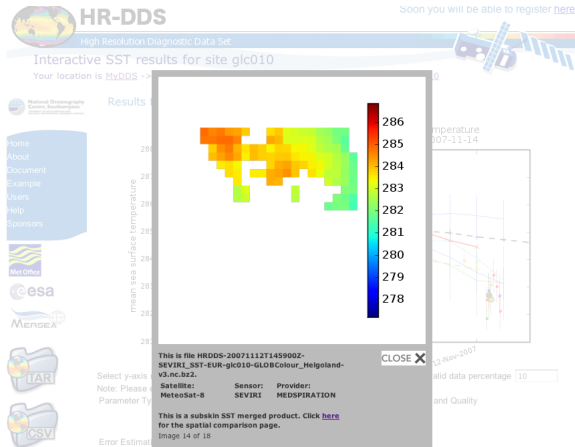
## Examples of usage

Data can now be filtered by a minimum percentage of SST in granule:



## Examples of usage

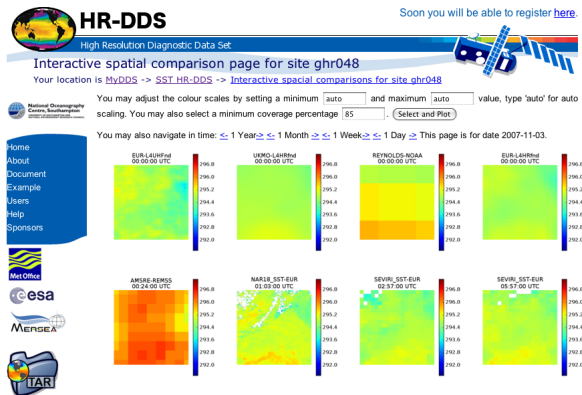
Clicking on a point reveals a dynamic quick look image. Note that the colour bar is scaleble:





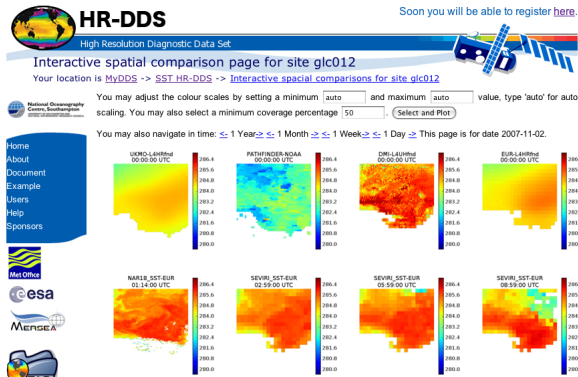
## Examples of usage

The spatial comparison pages can now be navigated by date.



## Examples of usage

Identification of spatial anomalies is far easier. For example the complexity of the DMI analysis



## Examples of usage

## The anomaly analysis has been enhanced.



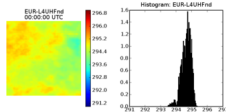
## HR-DDS

High Resolution Diagnostic Data Set

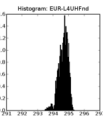
Interactive anomaly analysis page for site ghr048

Your location is [MyDDS](#) -> [SST HR-DDS](#) -> [Interactive anomaly analysis](#)>Soon you will be able to register [here](#).You may select a minimum coverage percentage  . [Select and Plot](#)HR-DDS granule [HRDDS-20071103T010300Z-NAR18\\_SST-EUR-ghr048-GHRSST\\_Ionian\\_Sea-v3.nc.bz2](#). Click to view or scroll down to see comparisons.

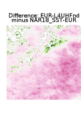
Image Data



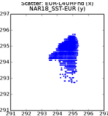
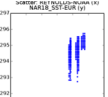
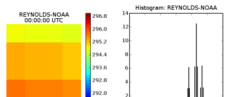
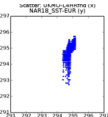
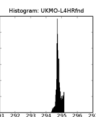
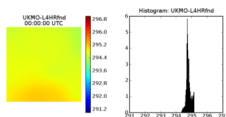
Histograms



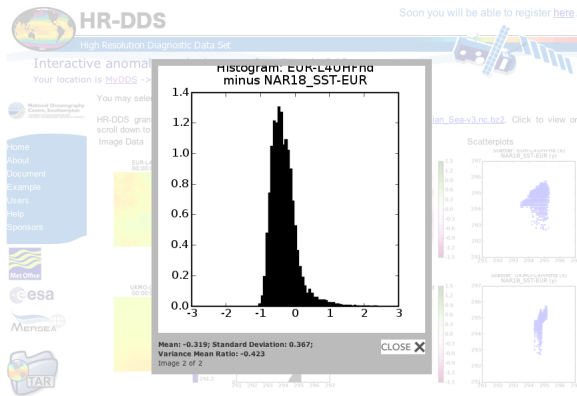
Difference Plots



Scatterplots

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# Inter-comparisons are more meaningful



The National Centre for Ocean Forecasting (NCOF) has funded us to perform a number of enhancements:

- Must ingest METOP-A, GOES and AMM SSTs.
- Must attempt to ingest MODIS-A SSTs
- We have to ingest *in situ* SSTs from CORIOLIS<sup>2</sup>

Plus a large effort on.....

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Plus a large effort on.....

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# We have added automatic bug reporting features to the website



**HR-DDS**  
High Resolution Diagnostic Data Set

Report A Bug Page

Your location is [MyDDS](#) -> [Help](#) -> [Report a bug](#)

Soon you will be able to register [here](#).

 **National Oceanography Centre, Southampton**  
Centre for Ocean and Earth System Studies

[Home](#)  
[About](#)  
[Document](#)  
[Example](#)  
[Users](#)  
[Help](#)  
[Sponsors](#)

 **Met Office**

 **esa**

 **MERSEA**

 **TAR**

We are sorry you have found a bug.

We are sorry you have found a bug in the page you were just looking at, we will try to fix it as soon as we can. Please follow the instructions below. If you wish to include

[Report a bug in this page.](#)

Please describe the nature of the bug in the box below, then click on the Send Report button. Please note that we already know what page you are referring to, and that you should not include more than 1000 characters.

[Your privacy.](#)

We do not record any information about you or your system. We only record the time you press the button, the text you enter and the page you were just looking at. If you are at all uncomfortable using this automatic reporting system then please feel free to contact us, details are in the About section of the menu on the left.

Something really bad happened!

[Send Report](#)

## Along with some other user features:

- Disability awareness features (text enlargement)
- 'Make a suggestion' feature
- Consistent level of mouse overlay documentation

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Excitingly, we have also been asked to produce a Wave HR-DDS:

- Spectral inter-comparisons.
- Should contain *in situ* and model observations
- and of course...

... a large effort on documentation.

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## Where is the HR-DDS going?

- HR-DDS is regarded as an infrastructure service within the SST community
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