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Abstract ID: 2O2

Data management at DMI

The presentation will concentrate on two aspects of data management at DMI.

- Data flow. Observational data are received at a central DMI server. From there data are distributed by several channels to the DMI users. Pressing aims for the DMI data management are to simplify the DMI data flow, to ensure usage of the DMI automated QC throughout, and to lower the number of decoding-systems. These aims are in reality difficult to reach and only more or less pressing for some of the users. But the upcoming WMI migration to BUFR might speed matters up?
- How to categorize SYNOP stations? In addition to the weather data from synoptical weather stations owned and operated by DMI, DMI also receives weather data from real time transmitting weather stations owned and operated by third parties. Two cases are shown: SYNOP from the automated weather station at Hans Island in the Nares Strait between Greenland and Canada, that was installed for research purposes. And SYNOP from the automated weather stations at the wind mill park Horns Rev, west of Jutland, Denmark

Data management at DMI

MSc Ellen Vaarby Laursen, Data and Climate Division

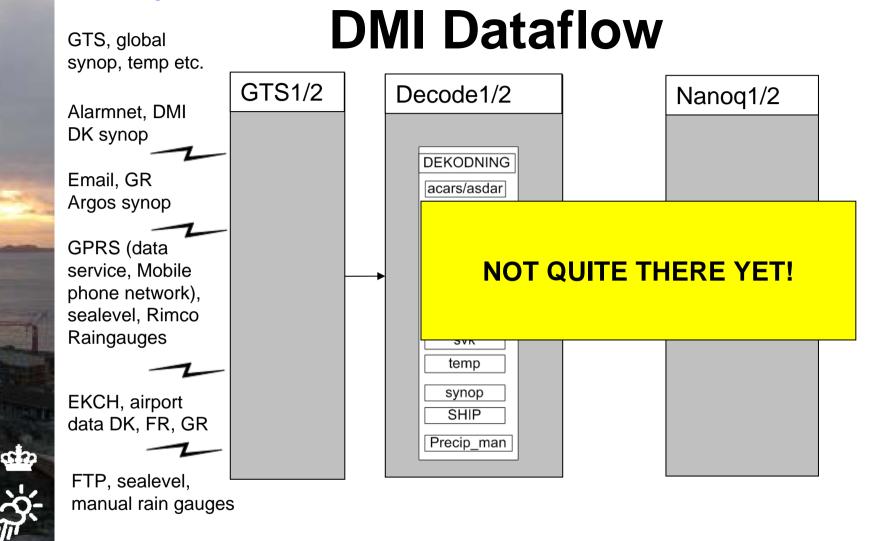
1) Simplification of Dataflow!

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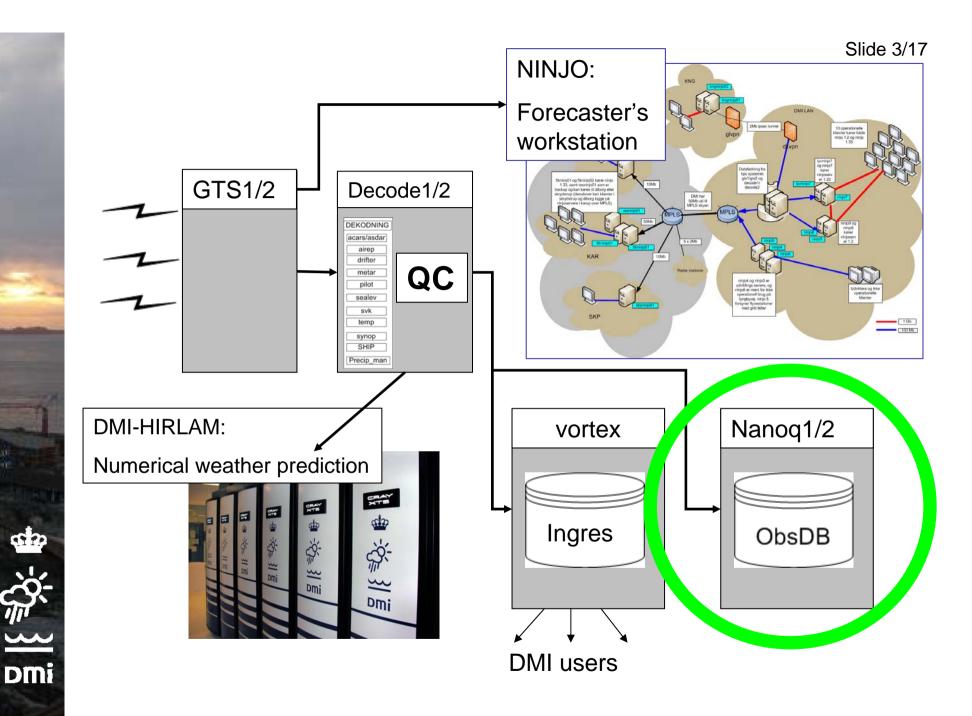
2) Differentiation of SYNOP stations?

Incoming observations



And more...

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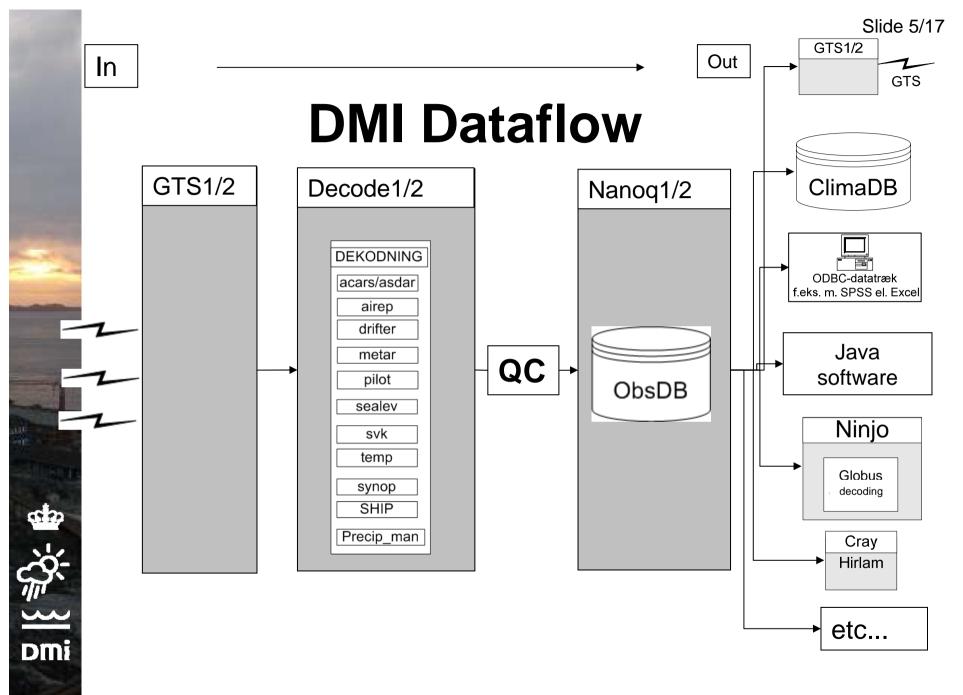


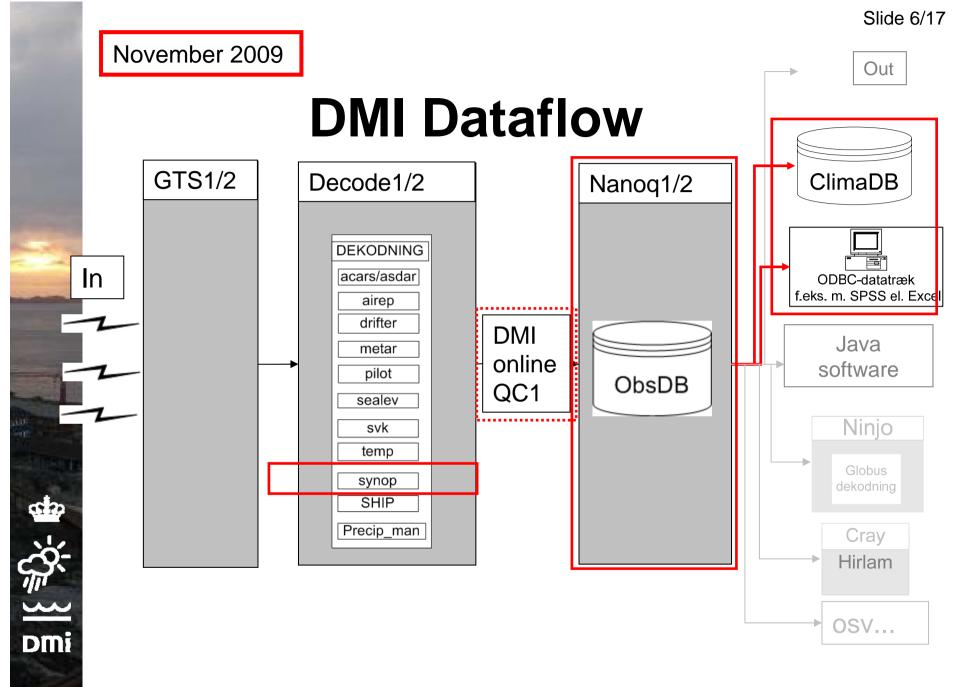
WMO BUFR MIGRATION MATRIX

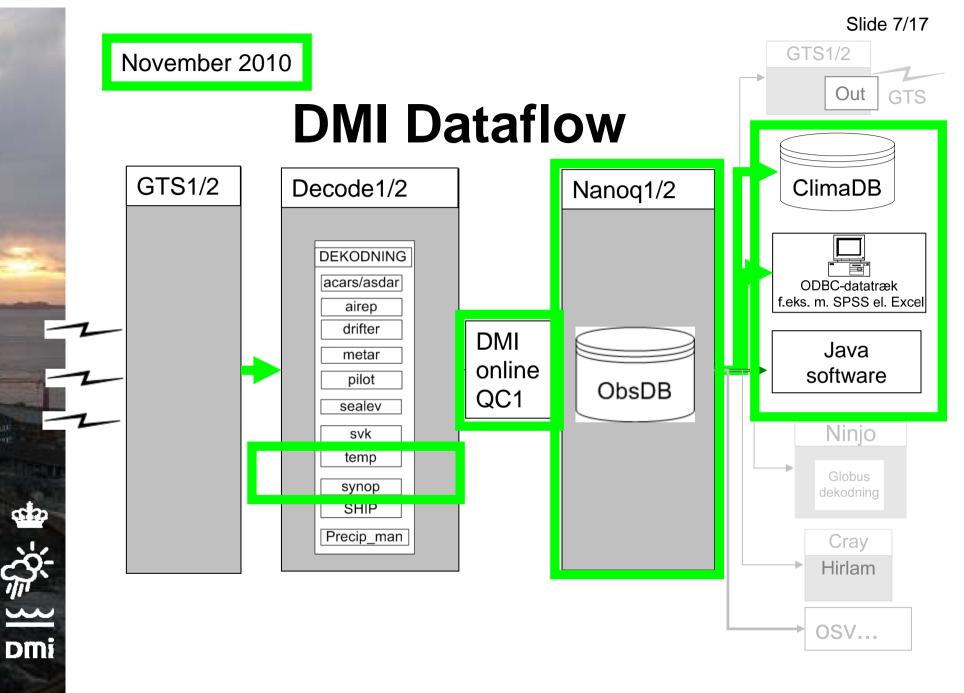
Category of traditional	Nov.	Nov.	Nov.	Nov.	Nov.	Nov.	Nov.	Nov.	Nov.	Nov.	Nov.	Nov.
Alphanumeric Codes (TAC)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Cat.1: Common												
SYNOP, TEMP,	Start ope	erational ex	change									
PILOT, CLIMAT						Migratio	n complete					
Cat.2: Satellite observations												
SARAD, SAREP,												
SATEM, SATOB							_					
Cat.3: Aviation									Start op	Start operational exchange		
METAR, SPECI, TAF												
AMDAR									Migration complet			n complete
Cat.4: Maritime	Miara	Aigration complete November 2010:										
DUUT, IRACKUD,	•		•									
BATHY, TESAC,	SYNOP, TEMP, PILOT, CLIMAT											
WAVEOD, SHIF,	0	, , ,	,		., •=	• • • •						
CLIMAT SHIP,												
PILOT SHIP,								-				
PILOT SHIP, TEMP SHIP,												
PILOT SHIP, TEMP SHIP, CLIMAT TEMP SHIP								Migratio	on complete			
PILOT SHIP, TEMP SHIP, CLIMAT TEMP SHIP Argos data				Migratio	n complete			Migratio	n complete			
PILOT SHIP, TEMP SHIP, CLIMAT TEMP SHIP Argos data Cat.5: Miscellaneous				Migratio	n complete			Migratio	on complete			
PILOT SHIP, TEMP SHIP, CLIMAT TEMP SHIP Argos data Cat.5: Miscellaneous RADOB, IAC,					n complete			Migratio	on complete			
PILOT SHIP, TEMP SHIP, CLIMAT TEMP SHIP Argos data Cat.5: Miscellaneous RADOB, IAC, IAC FLEET,		Start op	erational ex	change				Migratio	n complete			
PILOT SHIP, TEMP SHIP, CLIMAT TEMP SHIP Argos data Cat.5: Miscellaneous RADOB, IAC, IAC FLEET, GRID, RADOF		Start op	erational ex	change	n complete			Migratio	on complete			
PILOT SHIP, TEMP SHIP, CLIMAT TEMP SHIP Argos data Cat.5: Miscellaneous RADOB, IAC, IAC FLEET, GRID, RADOF Cat.6: Obsolete				change Migratio	n complete							
PILOT SHIP, TEMP SHIP, CLIMAT TEMP SHIP Argos data Cat.5: Miscellaneous RADOB, IAC, IAC FLEET, GRID, RADOF	tc., SFAZI,			change Migratio	n complete	, WINTEM	, ARFOR, RAL					

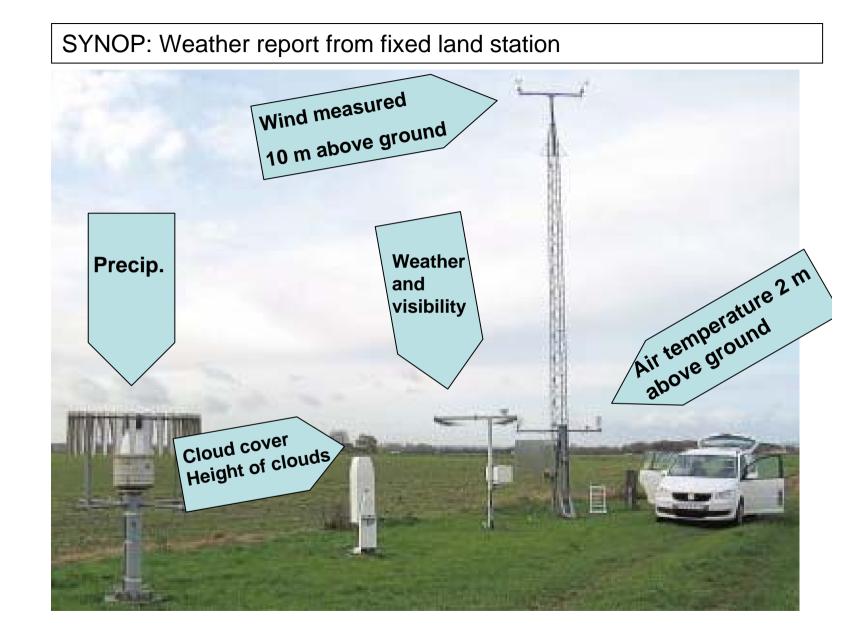
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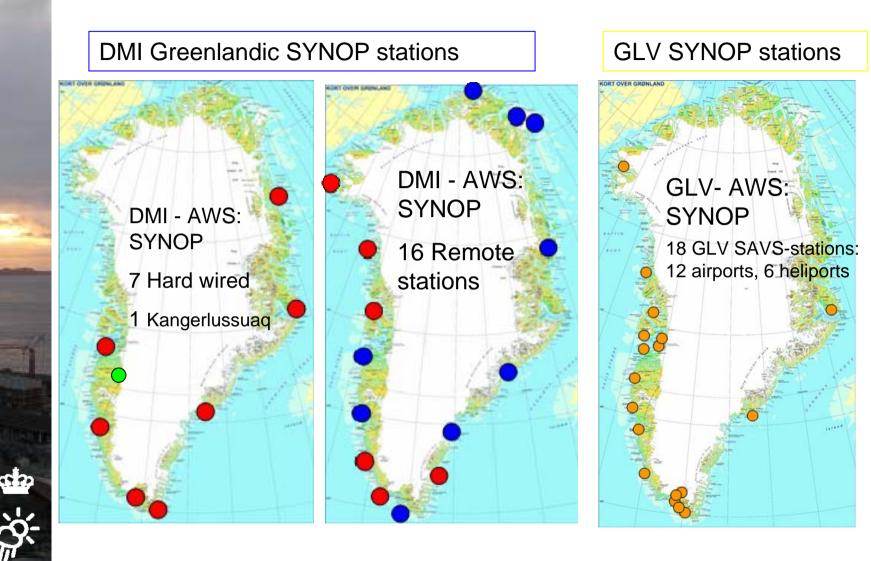








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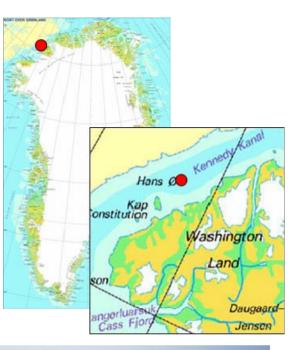
Hans Island Automatic Weather Station

Prof. Em. Preben Gudmandsen: Private Funding etc.

Partners: Canada, SAMS (UK), DTU (DK).

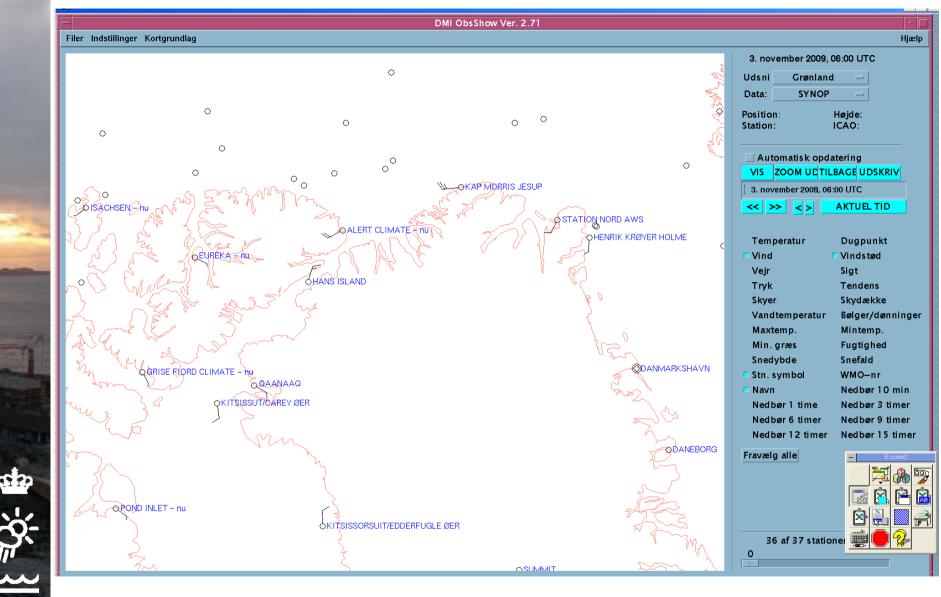
Operational real time data since May 2008 Data transmission: Irridium Satellite



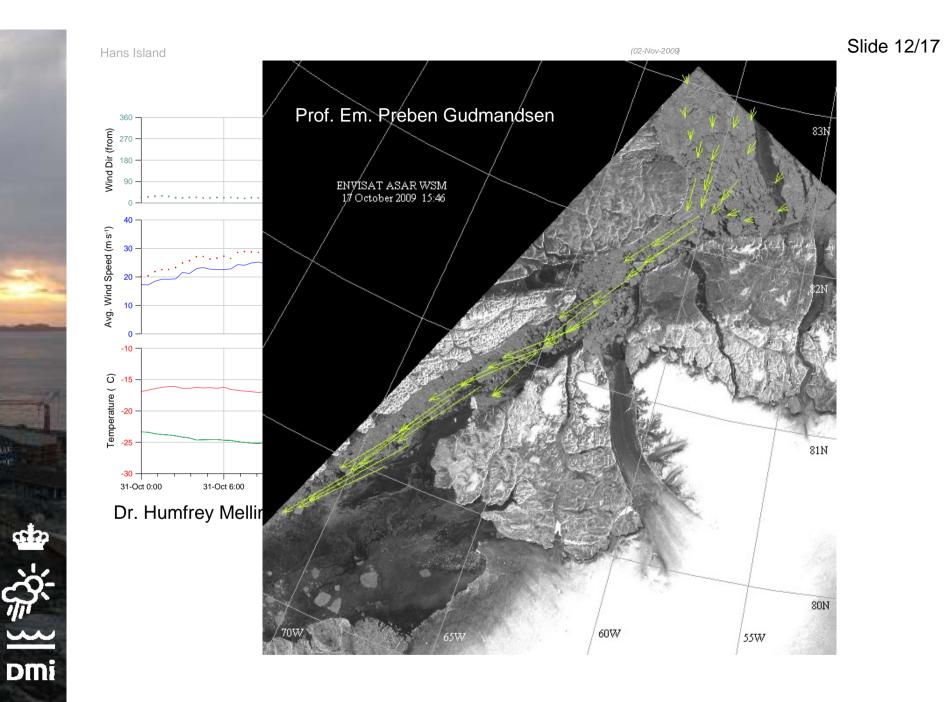




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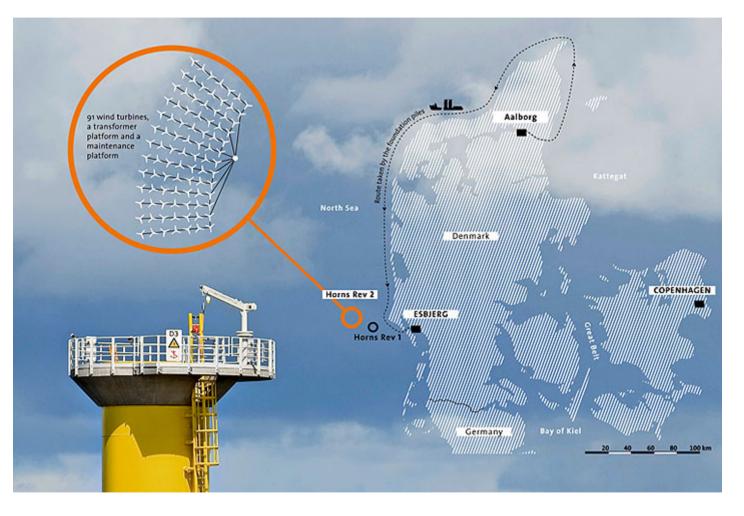
Ellen Vaarby Laursen (evl@dmi.dk). 7th ECSN Data Management Workshop, DMI November 4th 2009

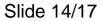


SYNOP from 'Horns Rev 2'

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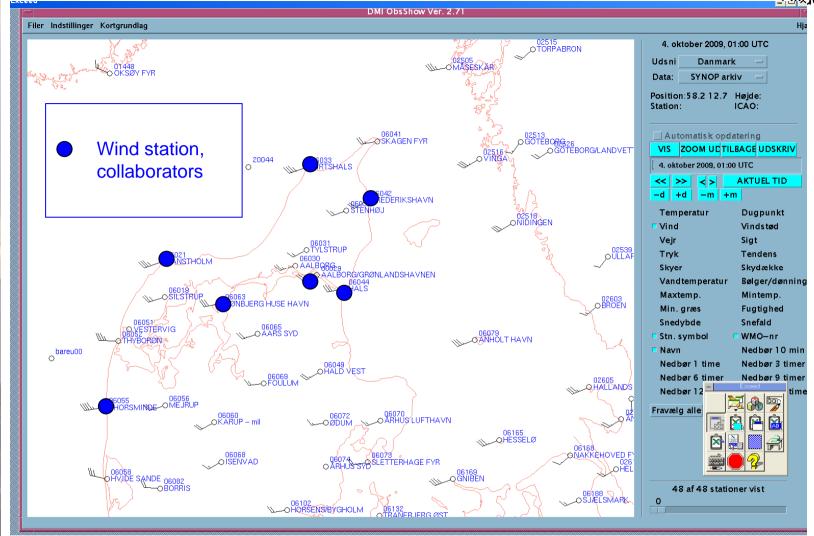
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