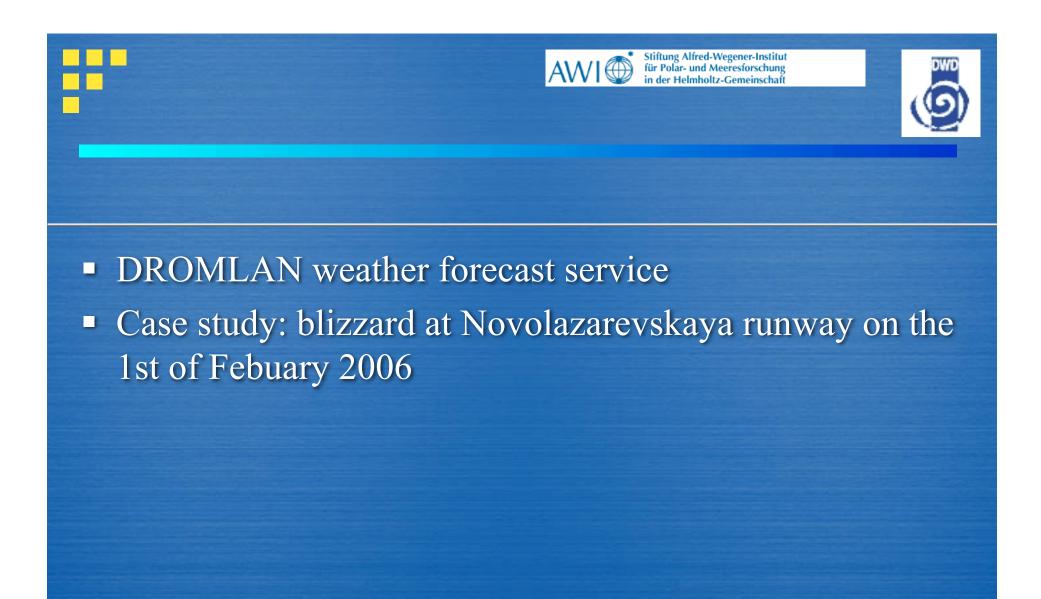






Use of AMPS in Queen Maud Land Area

June 13, 2006

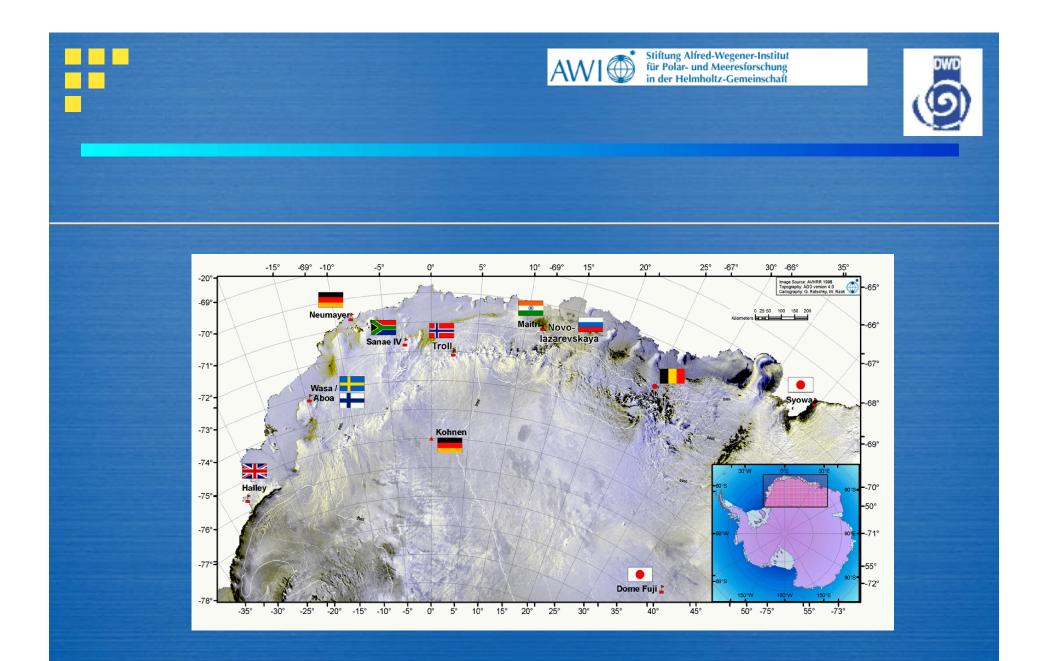


Dronning Maud Land Air Network (DROMLAN)

The aim of the project is to provide air transport to/from and within Dronning Maud Land to any member country of the Managers of National Antarctic Programs (COMNAP) in science related activities, including logistics.

to organize intercontinental air transport between Cape Town and DML. to maintain airfield at the Novolasarevskaya station (Russia) to establish and maintain an airfield at the Troll station (Norway). to organise feeder flights inside DROMLAN area. to organise any other service necessary for the flights.

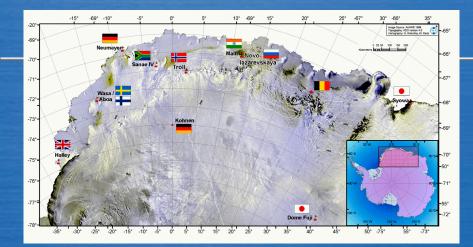
DROMLAN parties: Belgium, Finland, Germany, India, Japan, Netherlands, Norway, Russia, South Africa, Sweden, United Kingdom.







User in the DROMLAN community





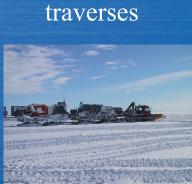
ships







Basler DC-3





Iljushin76



C-130

June 13, 2006

Ralf Brauner/AWI/DWD





User in the DROMLAN community



Special Thanks from all the forecasters on RV POLARSTERNfor the AMPS products via Email!

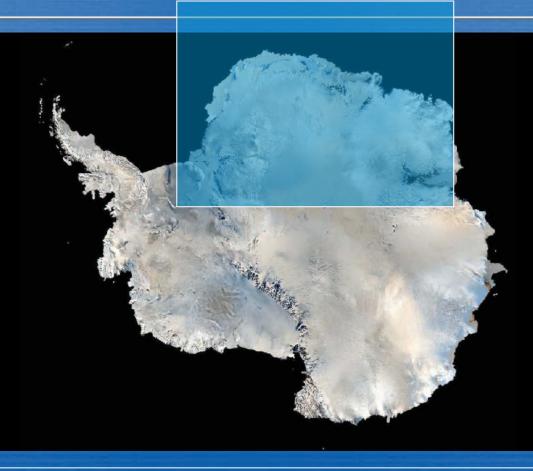


June 13, 2006





Westbound: contact with BAS/ forecaster at Rothera



Eastbound:

contact with USAP/forecaster at McMurdo or Casey/Davis

June 13, 2006





 DROMLAN weather forecast service was established in season 2002/2003 to provide forecasts for intercontinental/feeder flights and other weather dependent activities
 forecast centre is Neumayer Station

AWI in der Helmholtz-Gemeinschaft products and service

 \boxtimes Every season more than 2500 forecasts have been worked and transmitted to DROMLAN partners

Stiftung Alfred-Wegener-Institut

für Polar- und Meeresforschung

- Twice daily forecasts for all stations, field parties, traverses, ships
- Individual forecasts for aircrafts
- Service is available 24 hours (office hours are 05:00 to 22:00, "one man show")
- communication and distribution via email, HF, VHF, Iridium, telephone, fax







Forecast Base Neumayer Station

June 13, 2006

Ralf Brauner/AWI/DWD









Case study: blizzard at Novo runway on the 1st of Feb 2006

- Flight with Iljushin 76 from Cape Town to Novo runway
- ETD Cape Town 31st of January at 23:00 UTC
- ETA Novo runway 1st of Febuary at 05:00 UTC

due to AMPS and ECMWF forecasts flight was delayed for 2nd of Febuary in the afternoon or night!! This was done 2 days ahead!!

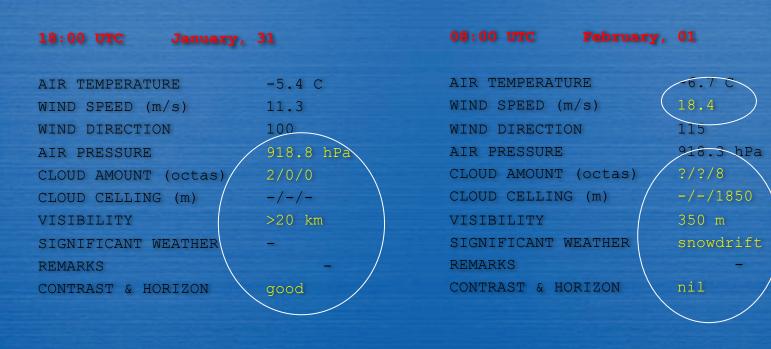
Case study: blizzard at Novo runway on the 1st of Feb 2006

WEATHER INFORMATION FROM NOVO RUNWAY

Stiftung Alfred-Wegener-Institut für Polar- und Meeresforschung

in der Helmholtz-Gemeinschaft

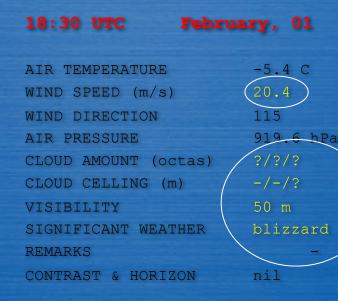
AWI



Case study: blizzard at Novo runway on the 1st of Feb 2006

AWI

WEATHER INFORMATION FROM NOVO RUNWAY

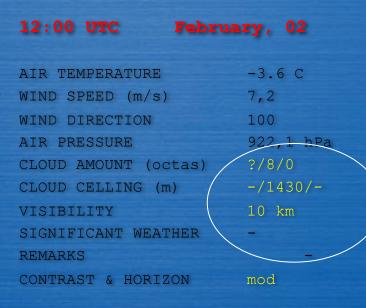


07:00 UTC Februa	ary, 02
AIR TEMPERATURE	-5.5 C
WIND SPEED (m/s)	13,5
WIND DIRECTION	110
AIR PRESSURE	922, 3 hPa
CLOUD AMOUNT (octas)	?/?/?
CLOUD CELLING (m)	-/-/?
VISIBILITY	500 m
SIGNIFICANT WEATHER	snowdrift
REMARKS	
CONTRAST & HORIZON	nil

June 13, 2006

Case study: blizzard at Novo runway on the 1st of Feb 2006

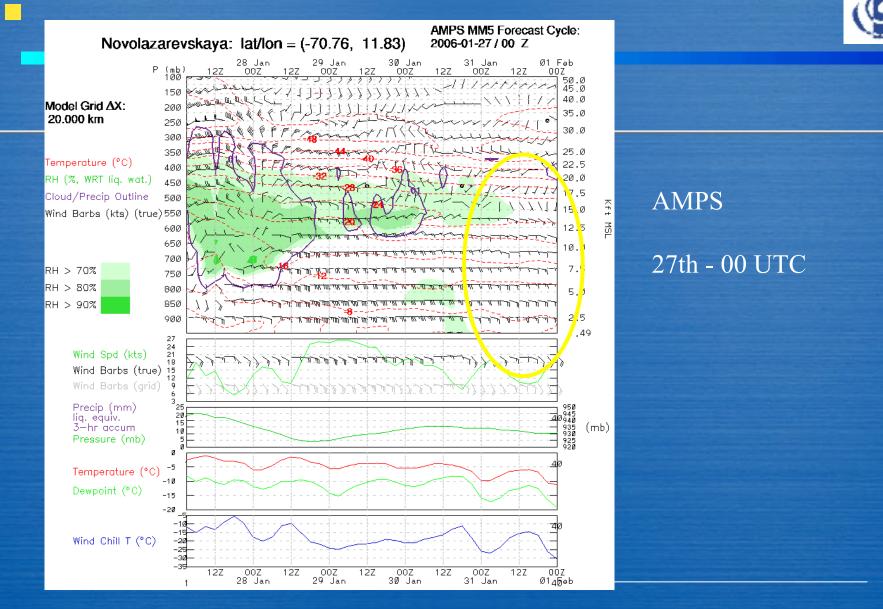
WEATHER INFORMATION FROM NOVO RUNWAY



.....no landing conditions on the 1st and 2nd February in the morning! !

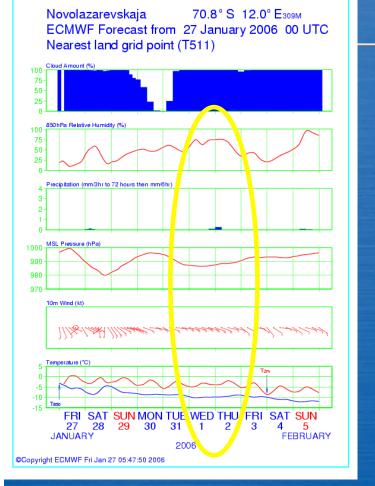


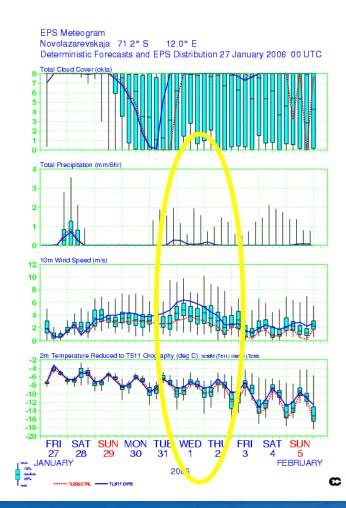
Stiftung Alfred-Wegener-Institut für Polar- und Meeresforschung in der Helmholtz-Gemeinschaft



June 13, 2006







AWI

ECMWF 27th -00 UTC

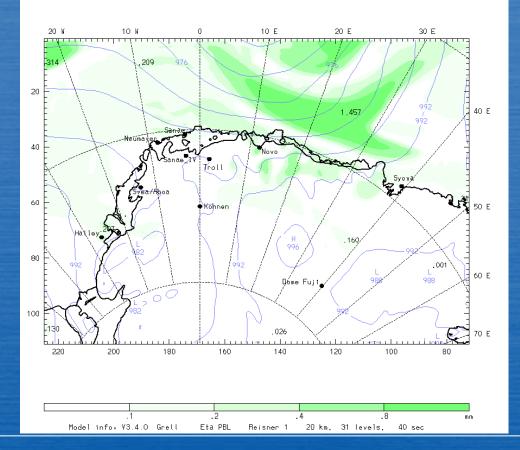
June 13, 2006



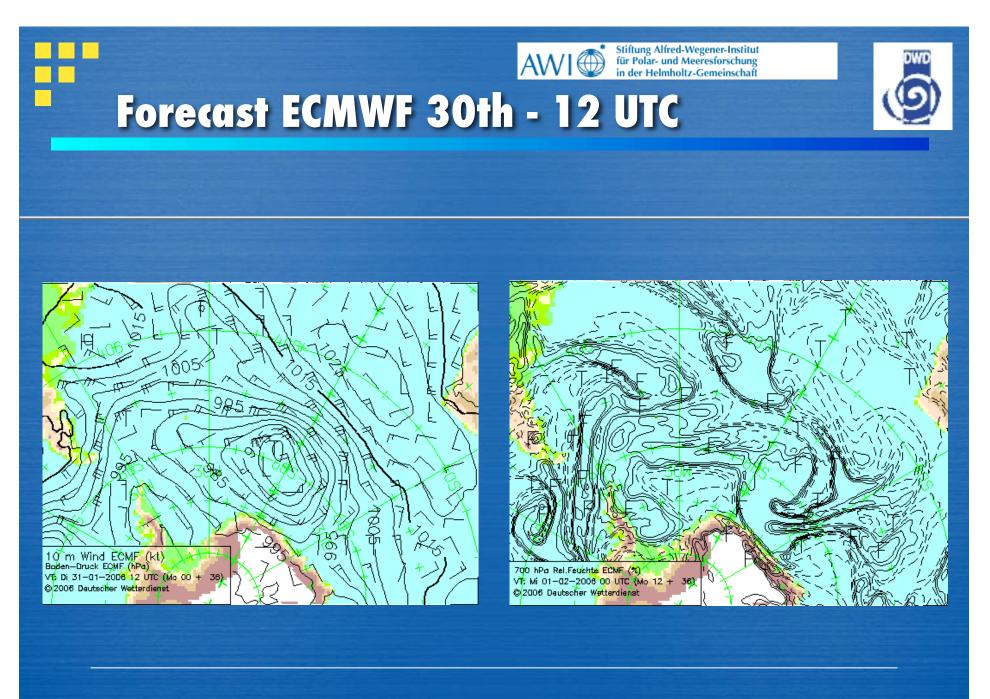
Init: 12 UTC Mon 30 Jan 06 Valid: 00 UTC Wed 01 Feb 06

Forecast AMPS 30th - 12 UTC

AMPS 20km MM5 -- Qn Maud Land Coast window Fcst: 36 h Total precip. in past 3 h Sea-level pressure



June 13, 2006





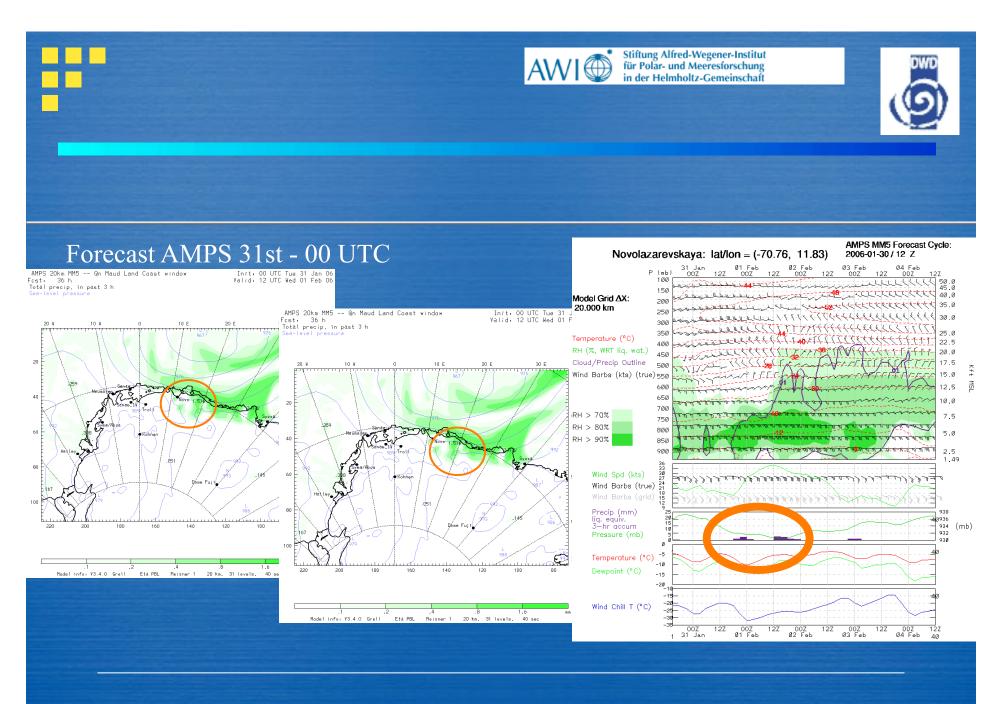




Final decision:

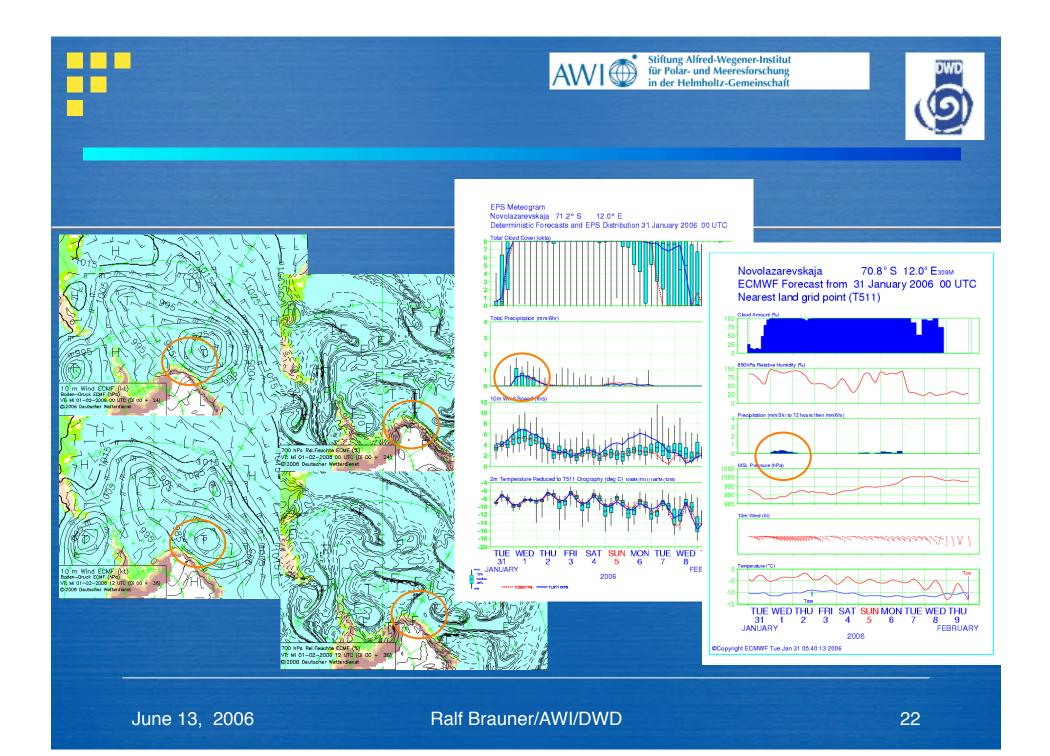
Canceling flight with Iljushin 76 arriving on the 1st in the morning!!

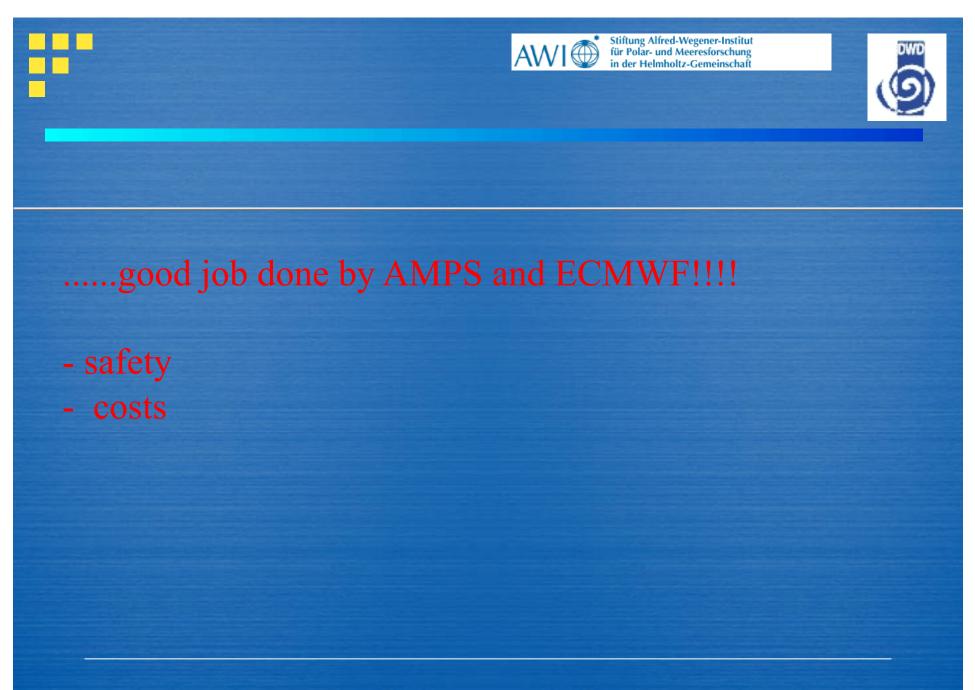
June 13, 2006



Ralf Brauner/AWI/DWD

June 13, 2006









AMPS
+ surface winds
+ meteograms show cloud layers
+ cross sections
+ and a lot more individual forecast products

AMPS and ECMWF

EMWF + EPS-meteogram

June 13, 2006

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