



Federal State Unitary Enterprise
«State ATM Corporation»

»
Branch of «North East Air Navigation»



Development Plan for the Flight Crews Meteorological Information Provision within Magadan ACC Area of Responsibility





Development Plan for the Meteorological Information Provision within Magadan ACC

Use of CPDLC for Meteorological Information Provision for Airborne Aircraft within Magadan ACC Area of Responsibility



Magadan ACC

Alpha
automated
ATC system



Data Base of
Meteorological
Information

METAR/SPECI, TAF REQUEST
CPDLC
METAR/SPECI, TAF:

UEEE
UHHH
UHMM
UHMA
UHPP
UHSS

Russia's
Government-owned
MET Provider





The Meteorological Information Provision within Magadan ACC via CPDLC

The pilots are enabled to request and get actual weather reports en-route, for their alternative or destination aerodromes that can be sent to Magadan ACC from any waypoint on route in the text format (METAR, TAF, SPECI) via CPDLC. In this case, the flight crews do not have to monitor HF frequencies and copy the information, which will allow them to avoid mistakes connected with possible misinterpretation of voice messages. In the same way, the flight crews are informed about the present or expected significant weather phenomena on route (SIGMET) or any other information they may require.

There is an example of Khabarovsk Aerodrome TAF broadcast as requested by the flight crew.

The screenshot displays the CPDLC interface with a flight plan and aircraft status. The flight plan shows a route from AAL281/N836AA to AAL281/N836AA. The aircraft status window shows the aircraft is active and has sent a FREE TEXT [HELLO] message. The weather information window shows a TAF broadcast for Khabarovsk Aerodrome (UHNN) as requested by the flight crew. The TAF broadcast includes the following text:
Получено: 04.12 00:22, Год до: 04.12 01:42
METAR UHNN 040000Z 26006MPS CAVOK MC9/ML5 Q1017 R23L/750235
NO SIG RMC QRF756/1009
Получено: 03.12 22:54, Год до: 04.12 02:14
METAR UHNN 032254Z 0400/0506 25007MPS CAVOK TEMPO 0400/0415
NO SIG RMC QRF756/1009
The interface also shows a list of aircraft in the area, including AAL281/N836AA, and a table of active aircraft with their status and location.

CPDLC dialogue box with AAL281

Khabarovsk TAF

AAL281 ADS-C target

Meteorological Information Data Base



Magadan ATS Unit “AMetISt” Automated Information Service (D-VOLMET and D-ATIS)



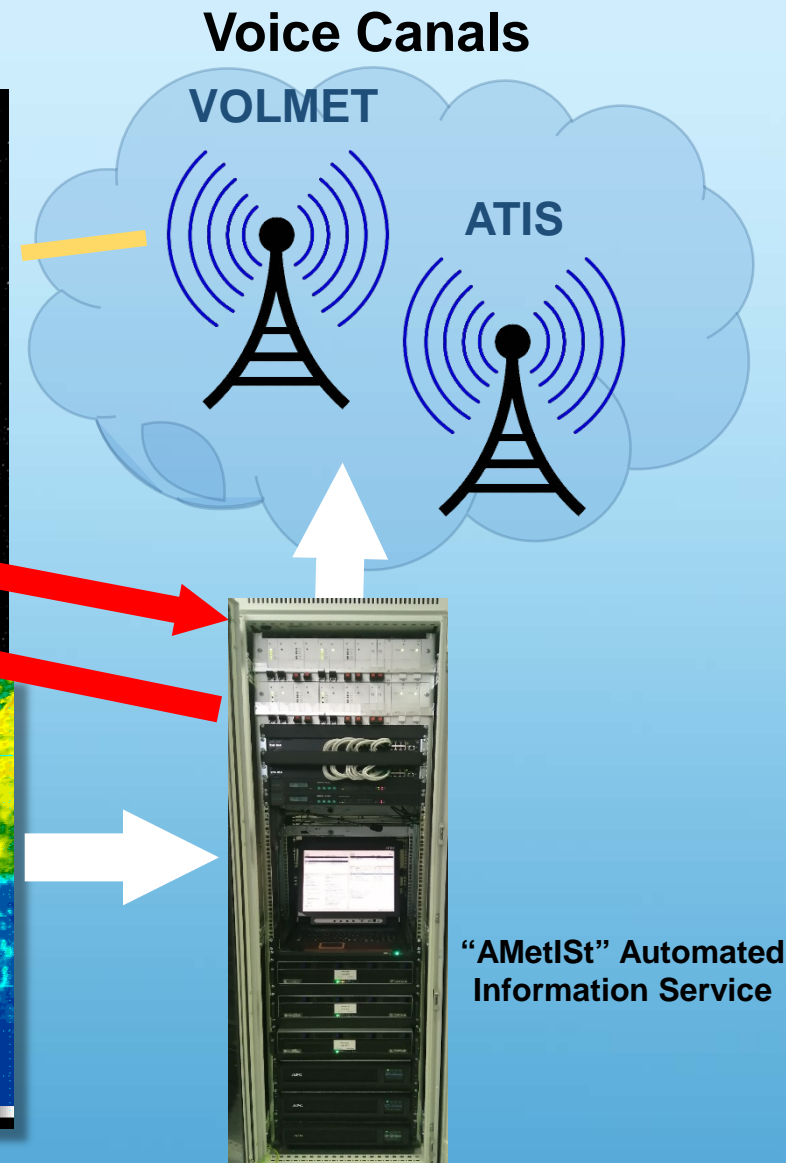
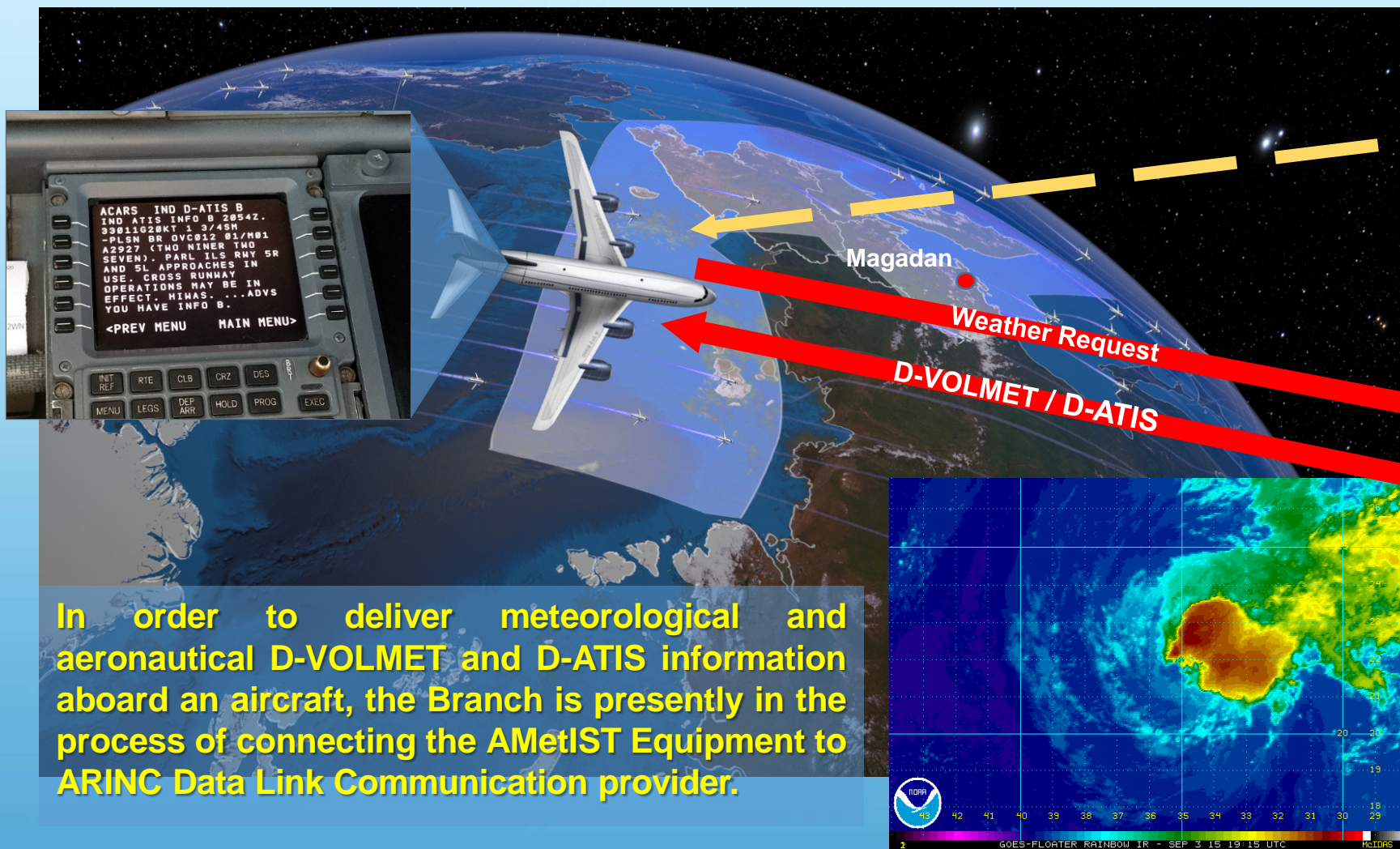
AMetIST Equipment gives the possibility to provide air space users with actual weather, aeronautical or other additional information, required for take offs or landings at Magadan Sokol Aerodrome, as well as information of actual or forecasted weather at the alternative aerodromes of Yakutsk, Magadan, Anadyr, Khabarovsk, Petropavlovsk-Kamchatski and Yuzhno-Sakhalinsk.

AMetIST Service presently provides:

- ATIS and VOLMET radio broadcasts both in Russian and in English;
- ATIS broadcasts by telephone.



Development of the Meteorological Information Provision within Magadan ACC





THANK YOU FOR YOUR ATTENTION!