



Federal State Unitary Enterprise
«State ATM Corporation»

Branch «North East Air Navigation»



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





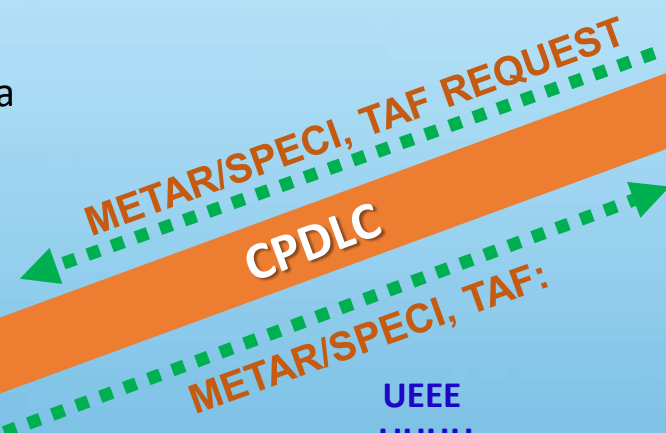
Development Plan for the Meteorological Information Provision within Magadan ACC

Utilization of CPDLC to provide meteorological information for aircraft in flight within Magadan ACC responsibility area



Magadan ACC

” Automated ATC System “Alpha



Russia's
Government-owned
MET Provider

Data Base of
Meteorological Information

- UEEE
- UHHH
- UHMM
- UHMA
- UHPP
- UHSS



The Meteorological Information Provision within Magadan ACC via CPDLC

The pilots' requests for the enroute, alternate or destination aerodrome weather can be sent to Magadan ACC via CPDLC from any flight route point and they will get the true meteorological information in the text format (METAR, TAF, SPECI). In this case the flight crews do not have to monitor HF frequencies and copy the information which will allow avoiding mistakes connected with possible misinterpretation of voice messages. In similar way, the flight crews are informed about the present or expected significant weather (SIGMET) along the flight route or any other necessary information.

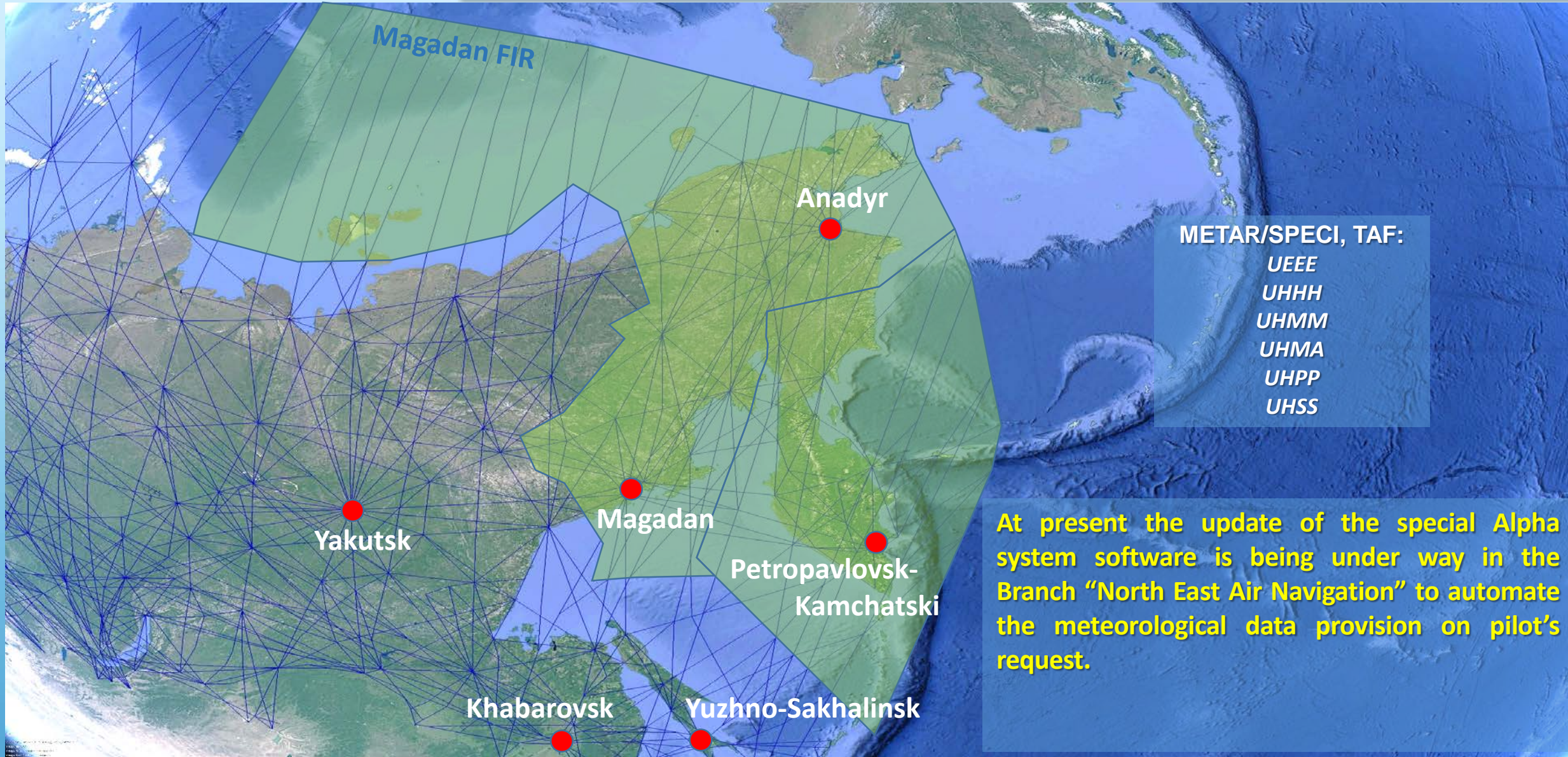
There is an example of the Khabarovsk aerodrome TAF on the flight crew request.

The screenshot displays the ATIS/CPDLC interface with several key components:

- CPDLC dialogue box with AAL281:** A window titled "Aircraft Message History" for flight AAL281/N836AA. It shows a series of messages including "Aircraft active", "FREE TEXT [HELLO]", "REQUEST POSITION REPORT", and "REPORT PASSING [LUNOG] AT [LUNOG] CONTACT [YAKUTSK:CONTROL] [125.600 MHz VHF]".
- Khabarovsk TAF:** A window showing the Terminal Area Forecast (TAF) for UHHH (Khabarovsk). The text includes: "FT UHHH 032254Z 0400/0506 25007MPS CAVOK TEMPO 0400/0415 28007G12MPS".
- AAL281 ADS-C target:** A callout pointing to a specific aircraft track on the map, labeled "AAL281 ADS-C target".
- Data Base of Meteorological Information:** A window at the bottom left showing a list of aerodromes with their ICAO codes and names, such as "UHEE - Якутск", "UEST - Тикси", and "UHHH - Хабаровск".
- CPDLC Control Panel:** A control panel at the bottom right with buttons for various CPDLC messages like "CRS", "RTE", "OFF", "X", "DCT", "M", "CON", "MON", "EMG", "CNF", "ADV", "OTH", "EXP CLB", "EXP DES", "EXP RTE", "EXP OFF", "EXP X", "CLR", "EXP M", "SQK", "SVC", "RPT", "NEG", "RSP", "FRE TXT", "URG TXT", "CTM", "DTM", "MPS", "PR", "MR", "MRC", "MRA".



Development of the Meteorological Information Provision within Magadan ACC



METAR/SPECI, TAF:
UEEE
UHHH
UHMM
UHMA
UHPP
UHSS

At present the update of the special Alpha system software is being under way in the Branch "North East Air Navigation" to automate the meteorological data provision on pilot's request.



**THANK YOU FOR YOUR
ATTENTION!**