

**Eighteenth Meeting of the Cross Polar Trans East Air Traffic Management Providers' Work Group
(CPWG/18)**

(Paris, France, 16-19 December 2014)

Agenda Item 6: ATS Route Catalogue

Proposal for some new optimal additional connections for new Polar fix SALET to SIMLI

(Presented by United Airlines)

SUMMARY

This working paper presents information for the Group's consideration about a proposal for some new optimal additional connections for new Polar fix SALET to SIMLI.

1. Introduction

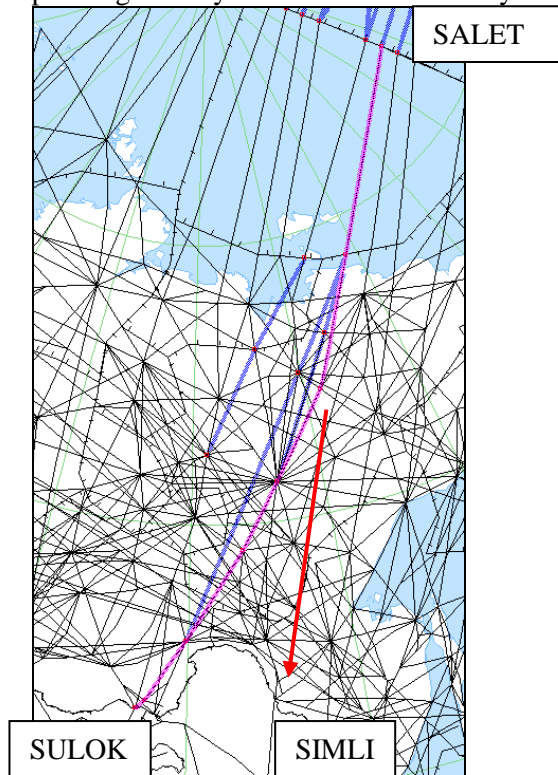
1.1 SALET.G819.RODOK is a valuable new sub Polar route for all airlines to use. Current wind patterns dictate a need for additional connections for more options than the modern flight plan computers can utilize within the Russian Federation's airspace.

1.2 Currently we have one optimal routing from SALET to SULOK (Russian/Mongolia border) only. All others are via doglegs which are not always a bad solution depending on the winds.

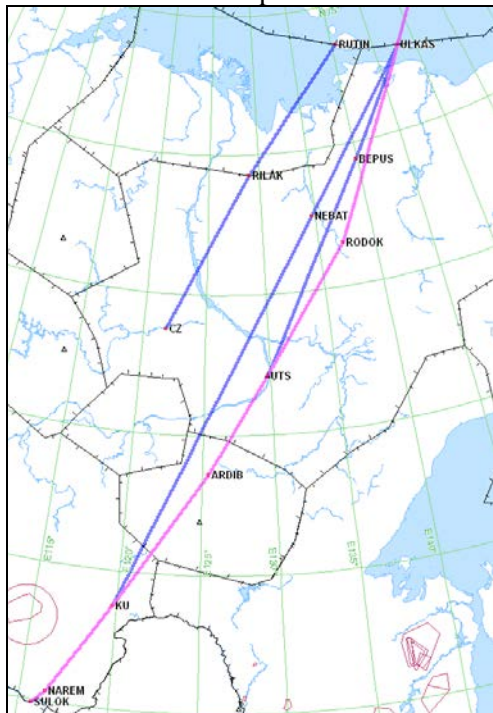
2. Discussion

2.1 A short study has shown strong potential use of SALET for Long Haul flights due wind patterns in USA/Canada and within Russian Federation borders before entry into China at one of many locations.

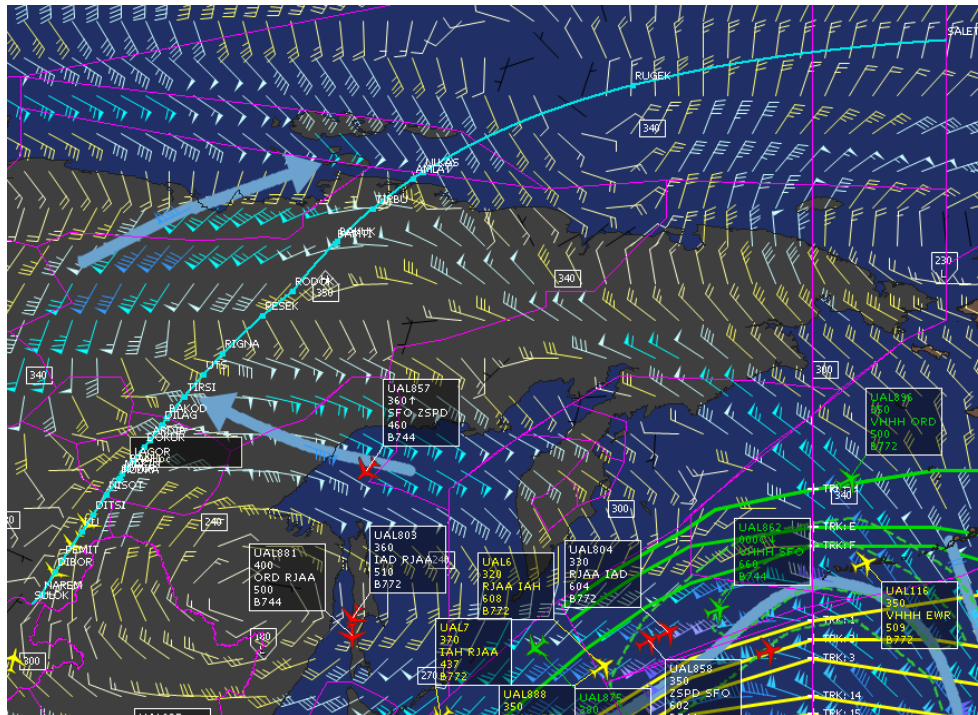
2.2 Below is a depiction of the present Great Circle route from SALET G819 RODOK G495 KU G496 SULO K shown as the magenta line. The initial route shows SALET.G819.RODOK pointing directly towards SIMLI but as yet we have no direct connections to SIMLI.



2.3 Below is the same routing (zoomed in to show portion over mainland Russia) with the Airways removed from the map for a less cluttered depiction from ULKAS to SULO K.

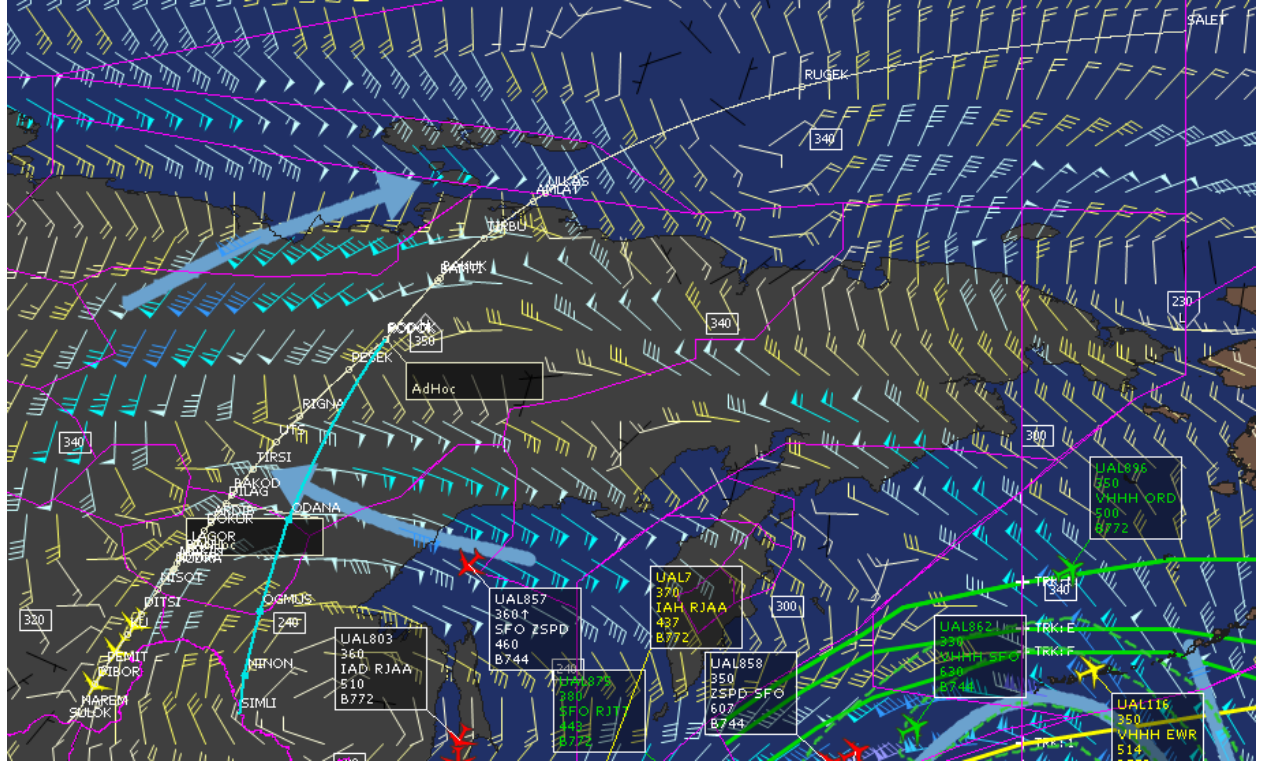


2.4 Below is the same route as above with FL340 Wind Forecast Overlay of 02 December 2014 for guidance.



2.5 Study/wind patterns suggests the following as a suggestion for Optimization of SALET to SIMLI by the addition of the following connections/routing:-

RODOK dct ODANA dct OGMUS dct NINON then existing airways to BANIR and then SIMLI (depicted below with FL340 forecast winds)



2.5 Average Potential Savings/Green Savings for Airlines per flight.

1. Time saved – 5 minutes
2. Distance saved – 42Nm
3. Fuel saved – 2,000lbs
4. Emissions not produced – 6,200lbs

3. **Action by the Meeting**

3.1 The meeting is invited to:

- a. review the information contained in this Working Paper;
- b. endorse the information provided in this Working paper with suggestions on how to move forward with implementation.