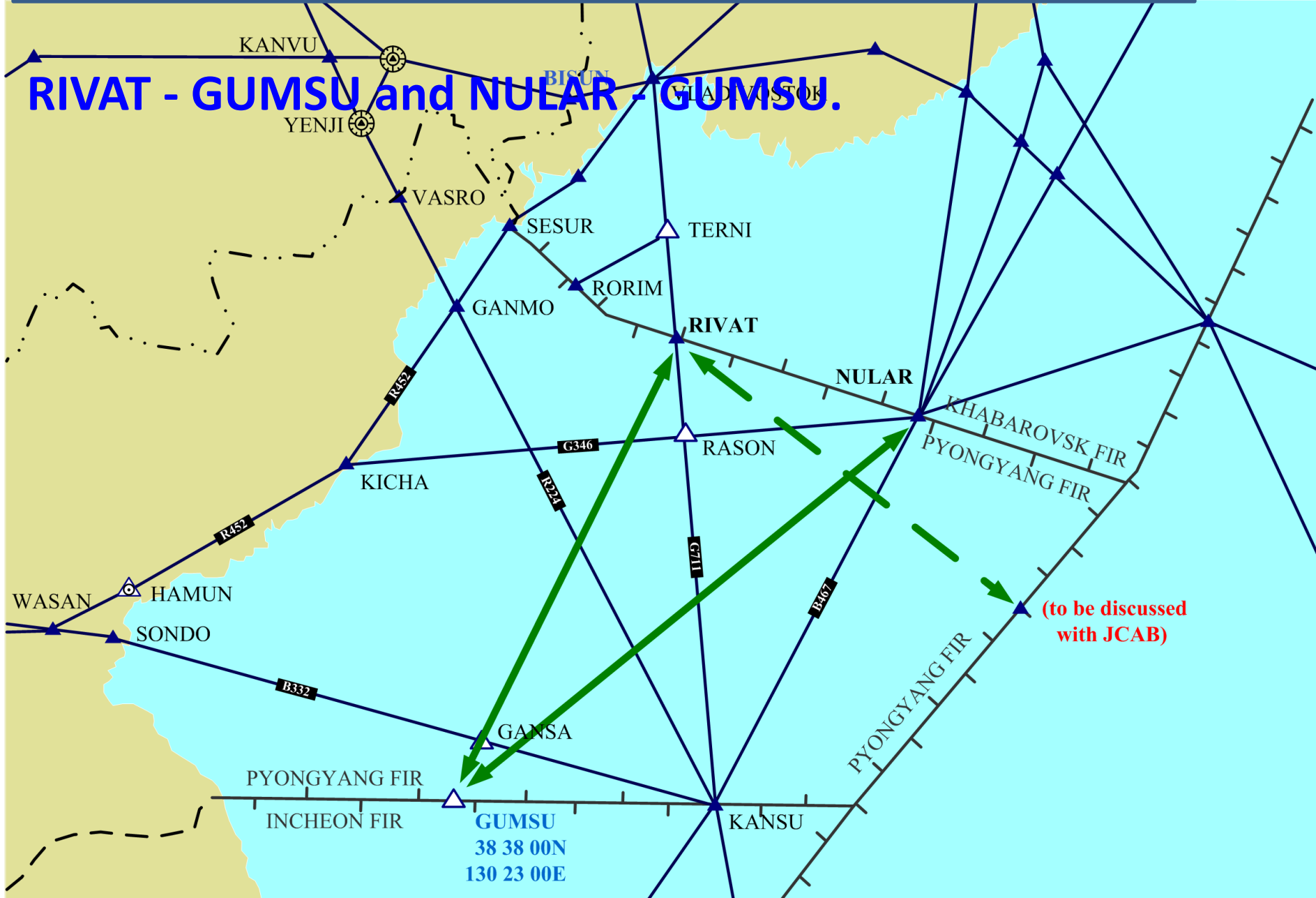


New route proposal for East Sector in Pyongyang FIR

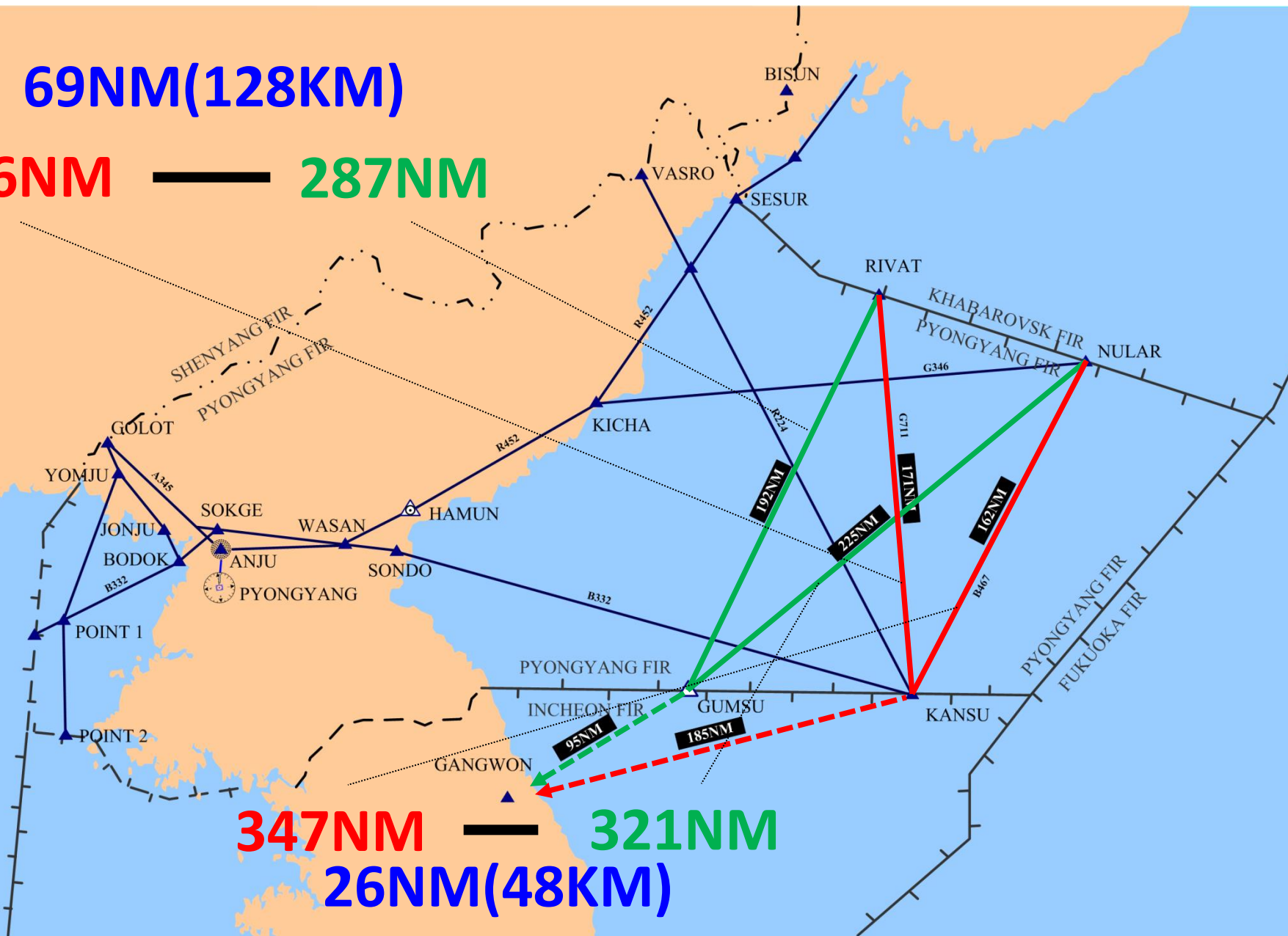
RIVAT - GUMSU and NULAR - GUMSU.



Benefits from short flight distances.

69NM(128KM)
356NM — **287NM**

347NM — **321NM**
26NM(48KM)



BENEFITS FROM THE NEW ROUTES

REDUCED FLIGHT TIME;

⇒ more than 9minutes (for RIVAT to GANGWON)

FUEL SAVING;

GOOD ENVIRONEMENT;

Etc.

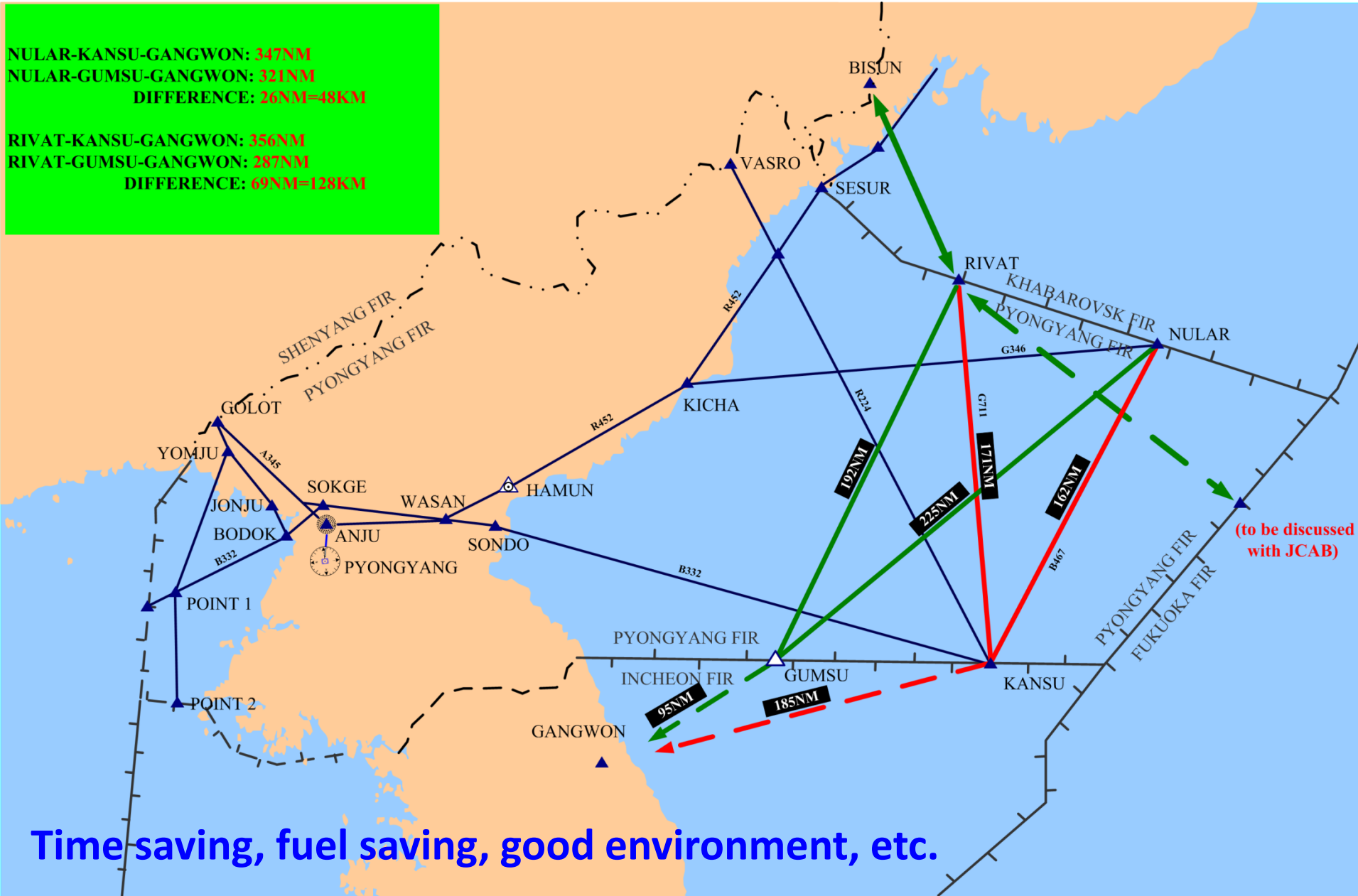
NULAR-KANSU-GANGWON: 347NM
NULAR-GUMSU-GANGWON: 321NM
DIFFERENCE: 26NM=48KM

RIVAT-KANSU-GANGWON: 356NM
RIVAT-GUMSU-GANGWON: 287NM
DIFFERENCE: 69NM=128KM

Distance for each segment.

NULAR-KANSU-GANGWON: 347NM
NULAR-GUMSU-GANGWON: 321NM
DIFFERENCE: 26NM=48KM

RIVAT-KANSU-GANGWON: 356NM
RIVAT-GUMSU-GANGWON: 287NM
DIFFERENCE: 69NM=128KM



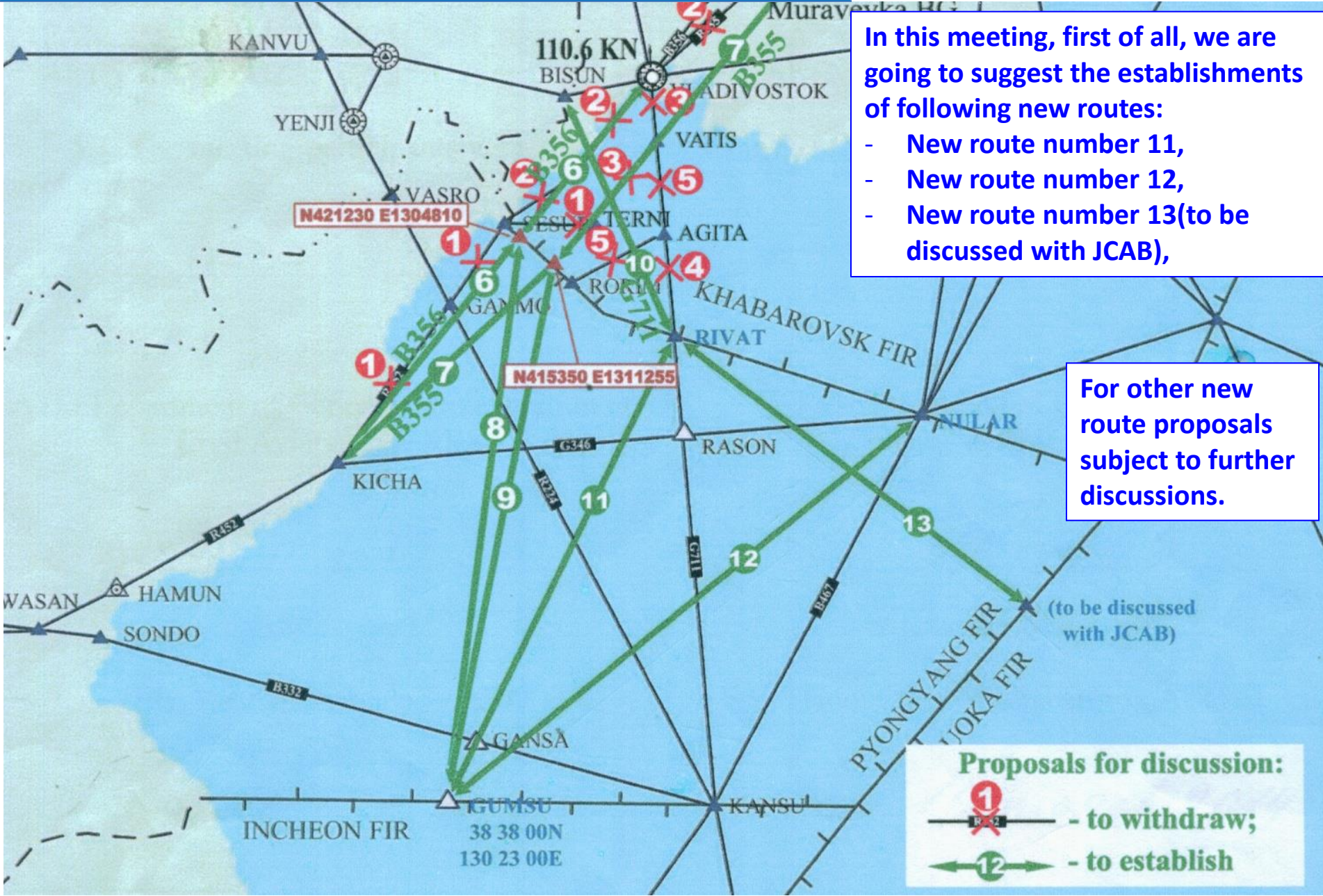
Time saving, fuel saving, good environment, etc.

The LOA between Khabarovsk ACC and Pyongyang ACC held in Vladivostok, Russian Federation, 14 March 2014.

In this meeting, first of all, we are going to suggest the establishments of following new routes:

- New route number 11,
- New route number 12,
- New route number 13 (to be discussed with JCAB),

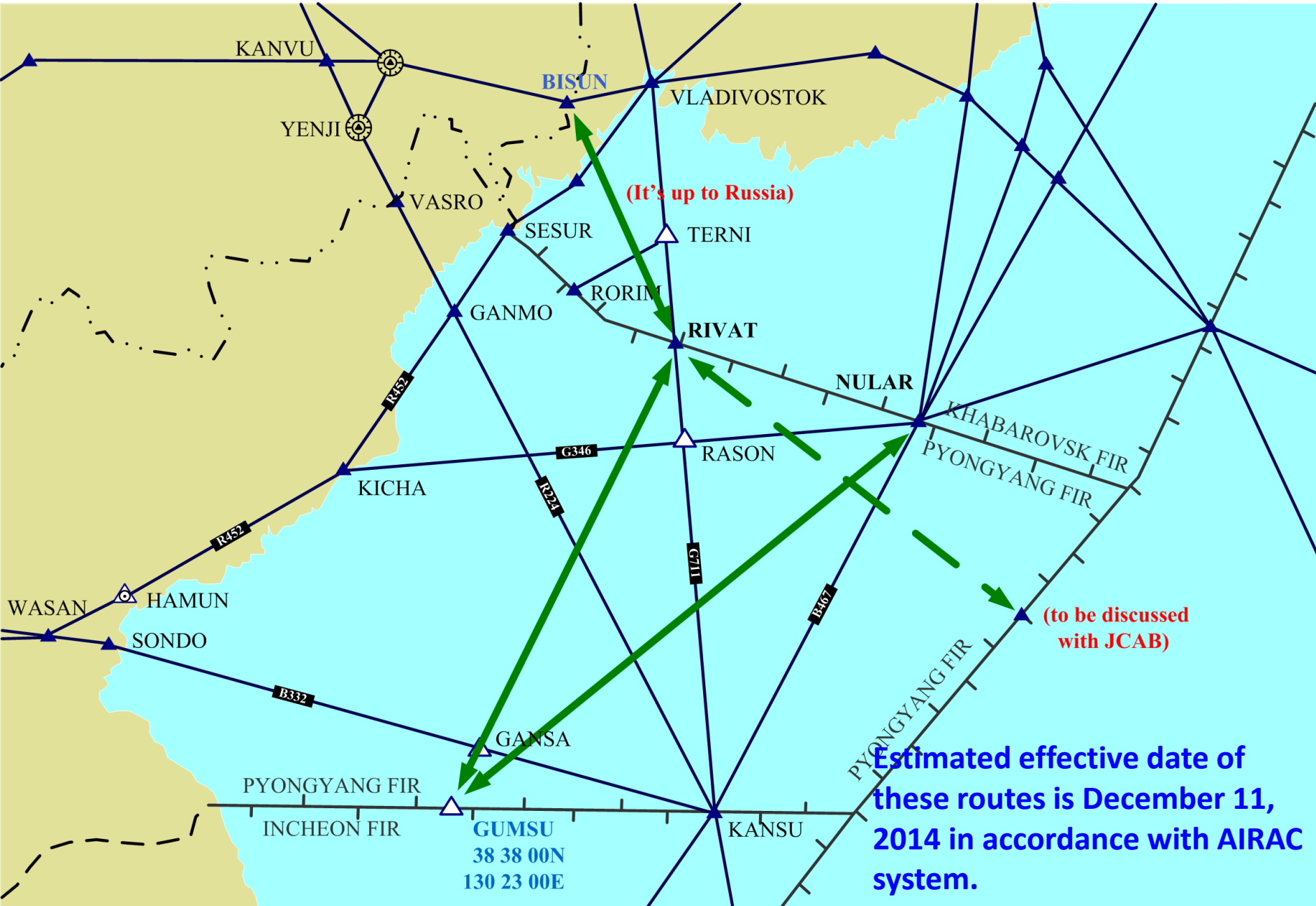
For other new route proposals subject to further discussions.



Proposals for discussion:

- to withdraw;
- to establish

Realigned Route Proposal



Estimated effective date of these routes is December 11, 2014 in accordance with AIRAC system.

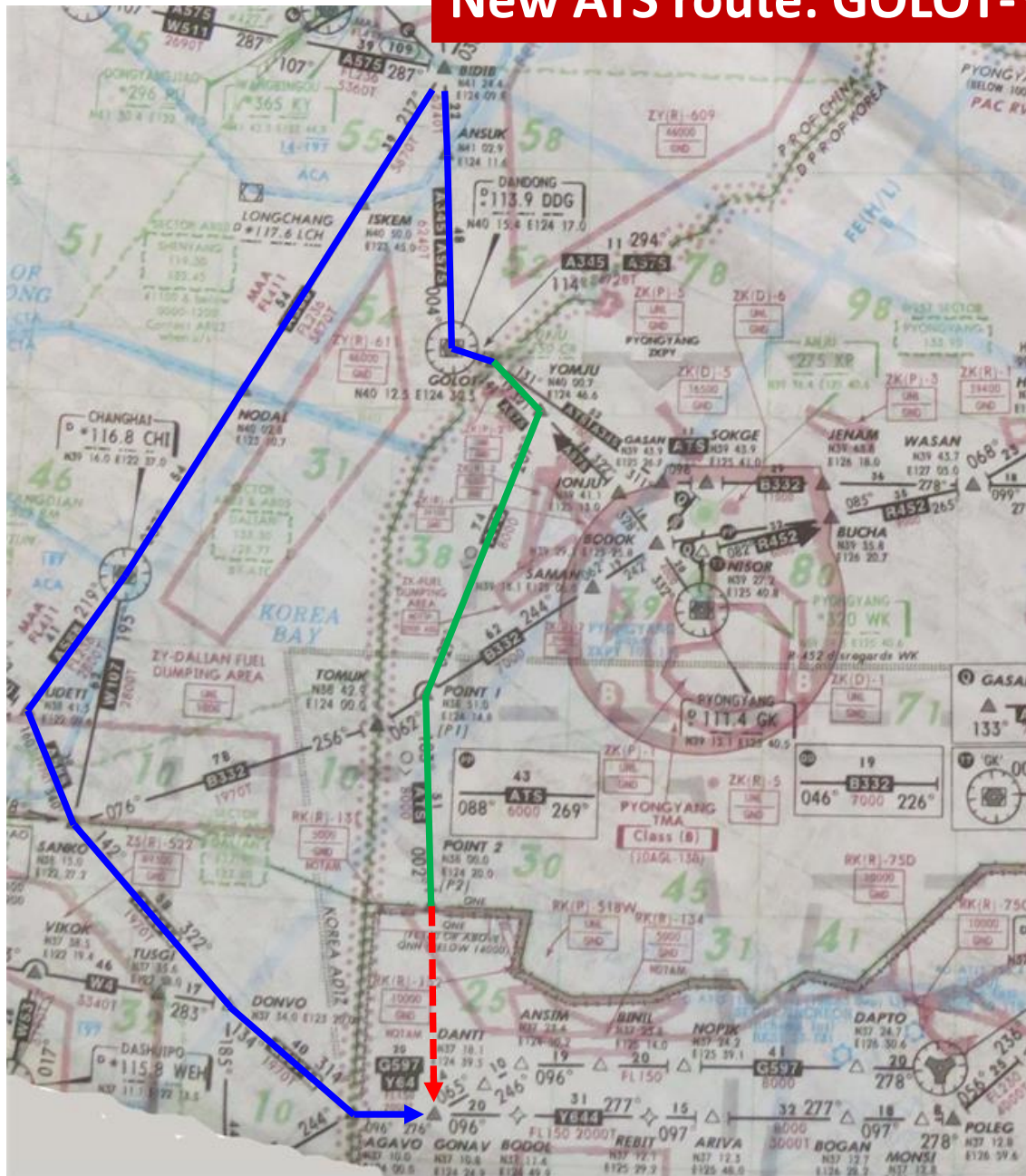
New ATS route: GOLOT-YOMJU-POINT1-POINT2

We have already established new ATS route from GOLOT to POINT 2. New waypoints are as follows:

- YOMJU: 40 00 41N, 124 46 38E
- POINT 1: 38 51 00N, 124 14 48E
- POINT 2: 38 00 00N, 124 20 00E.

When using this route, the operators can benefit in every ways within the segment from BIDIB to GONAV:

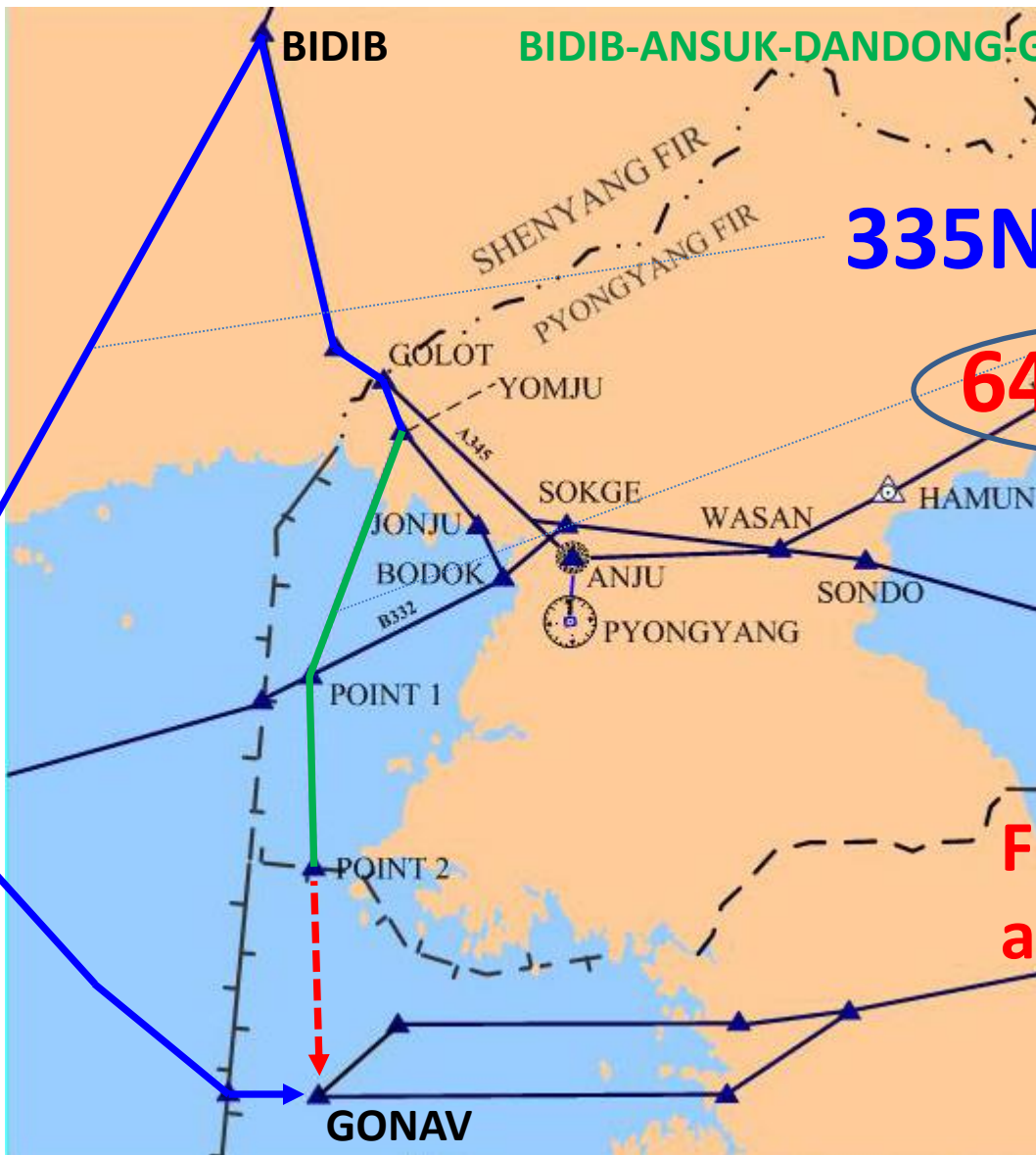
- Short distance;
- Time saving;
- Fuel saving;
- Etc.



New ATS route: GOLOT-YOMJU-POINT1-POINT2

BIDIB-CHANGHAI-UDETI-SANKO-DONVO-AGAVO-GONAV:

BIDIB-ANSUK-DANDONG-GOLOT-YOMJU-POINT1-POINT2-GONAV:



335NM

271NM

64NM(119Km)

Flight time can be reduced about 8minutes.

THANK YOU!