

Update on FERNS - Current Status -

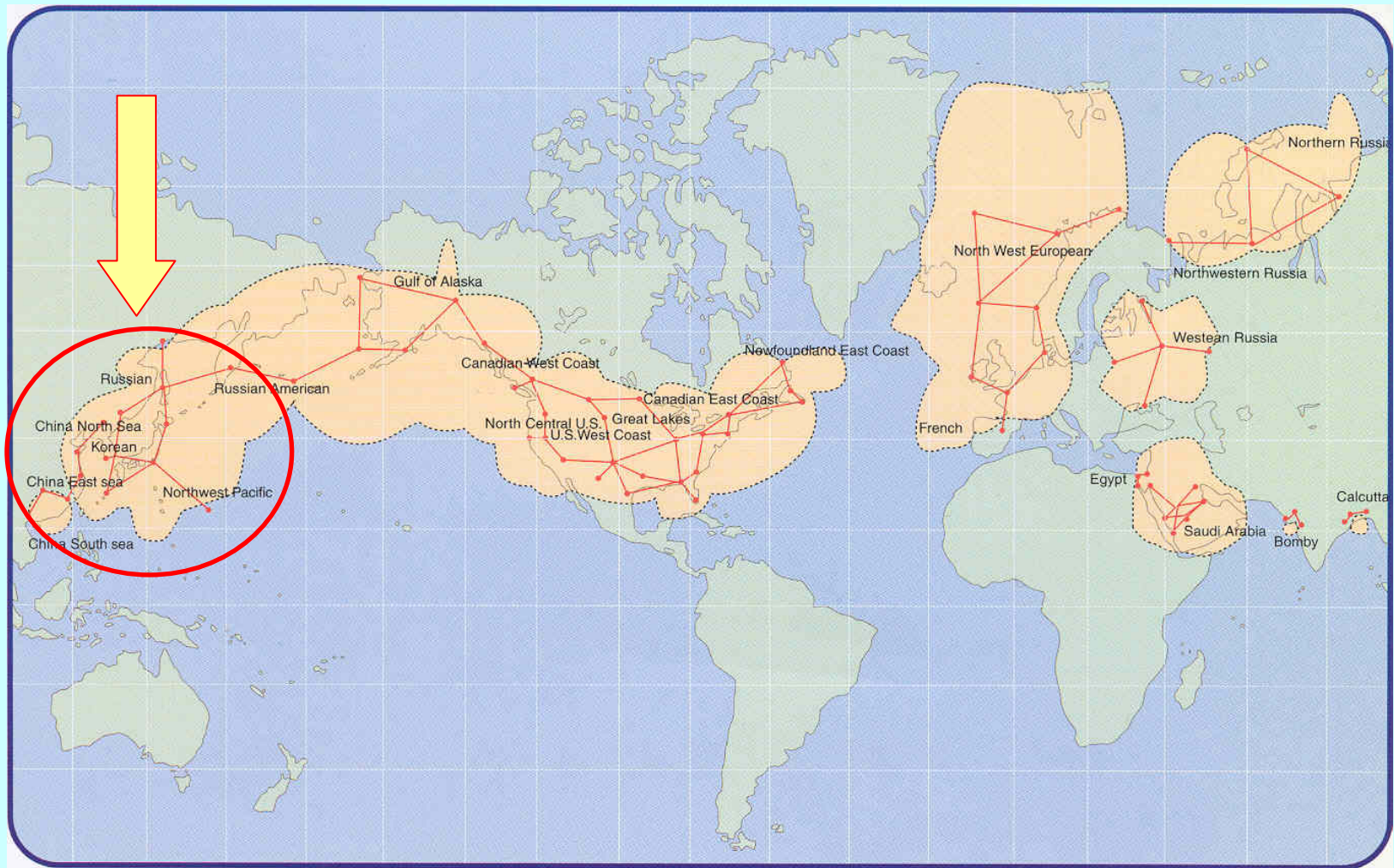
ILA 35th Annual Convention

22nd – 25th, OCT., 2006

*Seung-Gi GUG, Korea Maritime University
Tamotsu IKEDA, SENA*



FERNS(Far East Radionavigation Service) chains



Schedule of FERNS(YR 2006)



The 15th Session of the Council

1. Date: 13th-17th, November 2006

2. Where : Sanya, Hainan Island, CHINA

 Happyhoneymoonclub.com



Agenda Contents (YR 2006)

- 1. Opening of the session.**
- 2. Adoption of the agenda.**
- 3. Presentation of reports by each country on the Loran-C/Chayka programme.**
- 4. Operational matters for FERNS co-operating chains.**
- 5. Technical matters for FERNS co-operating chains.**
- 6. Co-ordination of other radionavigation services in the Far East.**
- 7. Any other business.**
- 8. Date and venue of the 16th session.**
- 9. Closing of the session.**

Results of 14th FERNs(2005)

Participants

- 1) Members: China(5)
Japan(2)
Korea(6)
Russia(4)
- 2) Observers: IALA(2)





Results of 14th FERNS(2005)

Presentation of reports by each country on the Loran-C/Chayka programme.

CHINA :

- The system operation has been improved;
- The system management has been strengthened;
- New Loran-C monitor and control sub-systems have been installed and put into operation;
- Synchronised monitor sub-systems have been replaced in chains E and F;

JAPAN :

- The Operational status of the North West Pacific Chain was described;



Results of 14th FERNS(2005)

KOREA :

- **The status of Loran-C stations of the Korean Chain was described;**
- **The non availability of the Ussuriisk station was noted;**

RUSSIA :

- **An analysis has shown that the Petropavlovsk-Kamchatski, Alexandrovsk-Sakhalinski and Ussuriisk stations in the (Russian-America Chayka/Loran-C) RAC chain an availability of 99.99%;**
- **This availability was based on unscheduled off-air time only;**



Results of 14th FERNS(2005)

Operational matters for FERNS co-operating chains

Scheduled Off-air for 2006

- Draft Off-Air schedule for 2006 relating to stations in China, Korea, Japan and Russia was given ;

Revision of FERNS Operation Guidelines

- The name of the station “Hexian” was changed to “Hezhou”, because “Hexian” is the locality of “Hezhou”;
- The amendments relating to telephone and fax no., e-mail address, reorganisation were provided.



Results of 14th FERNS(2005)

Technical matters for FERNS co-operating chains

With regard to Working Group on “FERNS Co-operating Chains Improvement Plan” set up by 12th Council Meeting, Prof. GUG Seung-gi (of KMU) was appointed a new Chairman of the W.G.

- Improvement program for FERNS Cooperation Chain
- Measures to mutual interference among DGNSS stations
- Information exchanges on future plan DGNSS in FERNS members
- Practical Use of AIS in the AtoN field
- Others

Other Operational Matters



Results of 14th FERNS(2005)

Co-ordination of other radionavigation services in the Far East

AIS services

DGPS and DGNSS Services

Any other business

Russia informed the Council of the completion of the development of an integrated navigation receiver operating from signals of GLONASS/GPS satellite navigation systems, Loran-C and Chayka terrestrial-based systems and from medium-wave marine radios beacons.

Prof. GUG seung-gi reported :

- **On the 34th ILA Annual Convention;**
- **On the initial trials on the use of AIS as an AtoN;**

Results of 14th FERNS(2005)





Results of 14th FERNS(2005)

Reported on the ILA (International Loran Association) 34th Annual Convention

Loran Worldwide

The 34th ILA Annual Convention

1. Date: 17th-19th, October 2005

2. Where : Santa Barbara, CA

"Loran-C and e-Loran :
When Sole Means is Not an
Option"



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Program (35 Papers were presented)

Monday, October 17, 2005

GAUSS Standardization Committee Meeting

134th ILA Board of Directors Meeting

Tuesday, October 18 General Sessions

Welcome Remarks and Keynote Address

Session 1 Status Reports and Updates(8)

Session 2 Programs and Plans(4)

Session 3 Loran System Management(4)

Session 4 Timing, Differential Loran(4)

Wednesday, October 19 General Sessions

Session 5 Signals, Propagation(4)

Session 6 Interference, Noise(4)

Session 7: eLoran Applications(4)

Session 8: Receivers, Certification(3)

135th ILA Board of Directors Meeting

WHAT'S THE FUTURE OF LORAN IN FAR EAST?

GOT LORAN?



*Thanks for
your kind*