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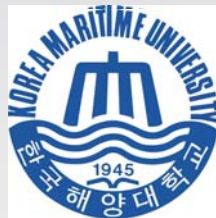
**The Thirteenth Session of the Council of the
Far East Radionavigation Service (FERNS)**

ILA 33rd Annual Convention

27TH, OCT., 2004

PROF. DR. CHUNG SE MO
PROF. DR. GUG SEUNG GI

KOREA MARITIME UNIVERSITY



Schedule of FERNS 13

The 13th Session of the Council

1. Date: 6-10, September 2004

2. Where: St. Petersburg, RUSSIA





Agenda Content-1

- 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.**
 - 4.1 Scheduled Off-Air for 2005**
 - 4.2 Other Operational matters**
- 5. Technical matters for FERNS co-operating chains.**
 - 5.1 FERNS Co-operating Chain Improvement Plan Report by Working Group Chairman - followed by discussion.**
 - 5.2 Other Technical matters.**

Agenda Content-2

- 6. Co-ordination of other radionavigation services in the Far East:**
 - 6.1 DGNSS services**
 - a) Coordinated revised frequency plan for DGPS stations**
 - b) Required availability rate of DGPS stations**
 - 6.2 Other radionavigation services**
- 7. Any other business.**
- 8. Date and venue of the 14th session.**
- 9. Closing of the session.**



Agenda Details-1

1. Opening of the session

1) Members: The People's Republic of China

Japan

The Republic of Korea

The Russian Federation

2) Observers: IALA

List of Participants

Japan (2)	Masao SHINOZAKI	Director, AtoN Engineering Division, Maritime Traffic Department, JCG
	Kenji MORIBE	Director for Promotion of Intelligent Navigation Aids, AtoN Management Division, Maritime Traffic Department, JCG
Korea (2)	Hyun-Dong KONG	Assistant Director, MOMAF
	Se-Mo CHUNG	Professor, KMU
China (5)	Limin CHENG	Vice Director of Department of AtoN and Hydrography, Marine Safety Administration, China
	Jianshe MA	Senior Engineer, Marine Safety Administration, China
	Zhihao LIU	Senior Engineer, Marine Safety Administration, China
	Xihua WEI	Senior Engineer, Marine Safety Administration, China
	Dayan ZHANG	Deputy Director, Xian Research Institute of Navigation Technology
Russia (10)	Sergei PISAREV	Director General of the Russian Institute of Radionavigation and Time
	Boris SHEBSHAEVICH	First Deputy Director General of the Russian Institute of Radionavigation and Time
	Victor TSAREV	Director of the Research and Technical Center “Internavigation”
	Vadim ZHOLNEROV	Deputy Director General of the Russian Institute of Radionavigation and Time
	Andrei KABIROV	Deputy Director General of the Russian Institute of Radionavigation and Time
	Anatoly ARGUNOV	Deputy Director of the Research and Technical Center “Internavigation”
	Alexei SHISHKIN	Ministry of Foreign Affairs of the Russian Federatrion
	Sergei BARINOV	Chief of Department of the State Research Institute of Navigation and Hydrography (Russia)
	Boris MAKAROV	Chief specialist of beacon service of Head Department of Navigation and Hydrography, (Russian Federation Defence Ministry)
	Mikhail SINITSYN	Chief specialist of the Long-Range Radionavigation Center, (Russian Navy)
IALA	Peter Edwin KENT	Technical Representative, International Association of Marine Aids and Lighthouse Authorities



Agenda Details-2

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

Each Country made a presentation about the availability of each station and the present/future status of operation.

Agenda Details-3

4. Operational matters for FERNS co-operating chains

4.1 Scheduled Off-air for 2005

Korea provided the complete list to all Members by no later than 1 December 2004.

4.2 Other Operational Matters

Japan-Proposal of the establishment of a joint MOMAF/JCG Working Team for communications between two countries

Agenda Details-4

5. Technical matters for FERNS co-operating chains

5.1 FERNS Co-operating Chains Improvement Plan

- 1) Japan introduced their proposals on Improvements Plan of FERNS Chains.**
- 2) Russia introduced a paper on "Prospects for CHAYKA development in the Russian Federation in XXI Century".**
- 3) China introduced a paper on the future status of Loran-C.**
- 4) Korea introduced the future of Loran-C/Chayka Systems.**

Agenda Details-5

5.2 Other Operational Matters

Proposal of Russia

- 1) Experimental investigation results on the efficiency estimation of the SNS Differential Corrections using the Petrozavodsk Chayka RNS Station**
- 2) Experimental results of determination of the Chayka Systems transmission parameters using the measurement equipment set of the Internavigation RTC**

Agenda Details-6

6. Co-ordination of other radionavigation services in the Far East

6.1 DGNSS Services

- 1) Russia reported the problems and prospects as regards development of marine differential GLONASS/GPS subsystem in Russia.**
- 2) Japan reported the effect of a GPS anomaly on the DGPS service provided by Japan.**
- 3) China reported that 20 DGPS stations are provided in their country. Work on upgrading the stations will commence at the end of 2004.**



Agenda Details-7

6.2 Co-ordinated revised frequency plan for DGNSS stations

- 1) No Submitting on this agenda item.**
- 2) All members agreed to provide to 14th Council Session information on the DGNSS stations that they have put into operation and planning for future stations.**

Agenda Details-8

6.3 Required availability rate for DGPS stations

- 1) Korea reported that a reference station with a synchronised timing system has been completed at Muju in 2004. And it is planned to extend the synchronised timing system for GNSS back-up infrastructure.
- 2) Korea reported the availability rate achieved for DGPS by the NDGNSS stations.

6.4 Other Radionavigation Services

- 1) Japan reported that their AIS service in the Tokyo area began operations on 1 July 2004.



Agenda Details-8

8 Date and venue of the 14th session

- 1) The 14th session of the Council will be convened in Seoul, Korea in 2005. MOMAF will determine the venue and specific dates (in late October), and inform members of FERNS at least four months prior to the session.**

FERNS Meeting Scenes-1



FERNS Meeting Scenes-2



FERNS Meeting Scenes-3



FERNS Meeting Scenes-4

