

**MINUTES OF THE FIFTH TRIPARTITE MEETING ON  
EARTHQUAKE DISASTER MITIGATION AMONG  
THE CHINA EARTHQUAKE ADMINISTRATION OF THE PEOPLE'S REPUBLIC OF CHINA,  
THE KOREA METEOROLOGICAL ADMINISTRATION OF THE REPUBLIC OF KOREA  
AND THE JAPAN METEOROLOGICAL AGENCY OF JAPAN**

17 November 2010, Jeju, Korea

At the invitation of Dr. CHUN, Byung-Seong, Administrator of the Korea Meteorological Administration (KMA), the delegation of the China Earthquake Administration (CEA) headed by Mr. YIN Chaomin, Vice-Administrator of CEA, and the delegation of the Japan Meteorological Agency (JMA) headed by Mr. SAKURAI Kunio, Director-General of JMA, visited Korea to participate in the Fifth Tripartite Meeting on Earthquake Disaster Mitigation among KMA, CEA and JMA. The meeting was held at the Ramada Plaza Hotel, Jeju, on 17 November 2010. This report summarizes the outcomes of the Meeting.

**1. Opening of the Meeting (Agenda Item 1)**

Dr. CHUN Byung-Seong, Administrator of KMA and co-chair of the meeting, opened the session at 09:00 am on 17 November 2010, and presided over the meeting.

Dr. Chun extended a warm welcome to Mr. Yin, Mr. Sakurai and other members of the CEA and JMA delegations, and highly commended the cooperation between CEA, JMA and KMA in the field of seismology. In return, the head delegates of CEA and JMA expressed their deep gratitude to Dr. Chun and the KMA staff for the cordial welcome. The three delegation heads expressed their hopes for substantial outcomes in the fields of seismology and related techniques, and in their joint disaster countermeasures.

The list of participants of the three sides is given in Appendix A.

**2. Approval of the Agenda (Agenda Item 2)**

The tentative Agenda included in Appendix B was adopted unanimously.

**3. Introduction of Earthquake Services of the three sides (Agenda Item 3)**

The three sides introduced the current status of and future plans for their earthquake and tsunami mitigation services, and shared information on recent significant earthquake disasters.

KMA reported on recent improvements in its earthquake monitoring and analysis system, and its services for earthquake and tsunami information. KMA also discussed its

policy for the development of its earthquake early warning system and invited the cooperation of CEA and JMA in these efforts.

CEA reported on the current status of China's earthquake and volcano monitoring system, and briefly introduced the China Earthquake Networks Center and its data output as well as relevant services.

JMA reported on the recent performance and improvement of its earthquake and tsunami monitoring and analysis system, in addition to its services to the public. JMA also expressed its willingness to cooperate in the field of Earthquake Early Warning.

#### **4. Review of Cooperative Activities since the Fourth Tripartite Meeting in 2008 (Agenda Item 4)**

The meeting confirmed that most of the agenda items adopted at the Fourth Meeting had already been completed or were in progress. As for the pending activities, the meeting decided to integrate them with activities adopted this year.

#### **5. Future Cooperative Activities (Agenda Item 5)**

The meeting discussed future cooperative fields and activities to be conducted after the Fifth Meeting and reached the following shared recognition.

##### **5.1 Exchange and Expansion of Seismic Data**

KMA, CEA and JMA reaffirmed the importance of earthquake data exchange as recognized at the prior meetings. It was pointed out that data sharing improves the accuracy of earthquake parameters determined by each side, which results in more accurate and timely issuance of tsunami warning. The three sides also decided to expand the data exchange if necessary. KMA, CEA and JMA reached a consensus on earthquake data exchange in near real time based on the list of seismic stations. Details regarding the exchange of earthquake data will be discussed at a working level. The three sides decided to consider real-time earthquake data exchange in the near future.

##### **5.2 Development of Foundation for Collaboration against Volcanic Activities in Northeast Asia**

The meeting shared a concern over the likely effect of volcanic activities in Korea, China and Japan. The three sides decided to start discussing the possibility of future cooperation on related technologies.

For this purpose, the three sides decided to exchange expertise in the related fields.

### 5.3 Real-time Exchange of Tsunami Observations

The meeting expressed a common concern about the possibility of tsunamis triggered by large-scale seismic activities and the need to prepare against such a possibility. To this end, the meeting decided to share up-to-date information on their tsunami observation facilities and operations, and to exchange tsunami data as needed. Details including the selection of observatories for tsunami data exchanges will be discussed at a working level.

### 5.4 Exchange of Geophysical Observational Data and Sharing of Data Processing Technology

KMA emphasized the importance of exchanging the result of geophysical observations to stimulate research on earthquake signals and monitoring the wide spectrum of natural phenomena, a view shared by both CEA and JMA. Details of the cooperation will be discussed at a working level.

### 5.5 Sharing of Important Past Earthquakes Observations

KMA also emphasized the importance of past earthquake records for future earthquake disaster mitigation in the East Asian region. To this end, the meeting decided to share important earthquake records observed by the three sides. Details will be discussed at a working level.

## 6. Designation of Focal Points (Agenda Item 6.)

In order to facilitate the cooperative activities, the three sides decided to update the list of focal points and to appoint the working-level focal points for the joint activities under Agenda 5 listed in Appendix C.

— International cooperation focal points

KMA: **Dr. Yun Won-Tae**, Director, International Cooperation Division

CEA: **Mr. Xu Zhizhong**, Director, Division of Bilateral Cooperation, Department of International Cooperation

JMA: **Mr. Hasegawa Naoyuki**, Head, Office of International Affairs

— Working cooperation focal points

KMA: **Dr. Lee Duk-Kee**, Director, Earthquake Policy Division

CEA: **Mr. Xu Zhizhong**, Director, Division of Bilateral Cooperation, Department of International Cooperation

JMA: **Mr. Koizumi Takeshi**, Senior Coordinator, Earthquake and Tsunami Observations Division

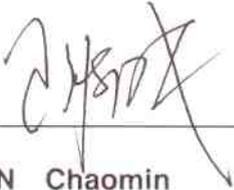
## 7. Next Meeting (Agenda Item 7)

It was decided that the Sixth Tripartite Meeting would be held in Beijing in the latter half of 2012. The date, venue and agenda will be jointly decided through mutual consultations by correspondence.

## 8. Closure of the Meeting (Agenda Item 8)

All sides expressed their satisfaction with the fruitful discussion and outcomes of the meeting and reaffirmed their commitment to the implementation of the decided cooperative activities. On behalf of the CEA and JMA delegations, Mr. YIN Chaomin and Mr. SAKURAI Kunio expressed their appreciation to KMA for organizing and coordinating the Fifth Meeting.

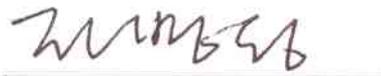
Done in triplicate in English on 17 November 2010.



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**YIN Chaomin**

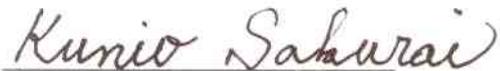
China Earthquake Administration  
People's Republic of China



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**CHUN Byung-Seong**

Korea Meteorological Administration  
Republic of Korea



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**SAKURAI Kunio**

Japan Meteorological Agency  
Japan

# Appendix A

## List of Participants

### KMA side:

Dr. CHUN Byung-Seong	Administrator
Mr. LEE Hyeon	Director-General for Earthquake Office
Dr. LEE Duk-Kee	Director, Earthquake Policy Division
Mr. YANG Jin-Kwan	Director, Earthquake Monitoring Division
Dr. RYOO Sang-Boom	Director, Global Environment System Research Division

### CEA side:

Mr. YIN Chaomin	Vice Administrator
Mr. LI Ke	Director General for Department of Earthquake Monitoring and Prediction
Mr. XU Zhizhong	Director for Division of Bilateral Cooperation, Department of International Cooperation
Mr. LI Yuche	Research Professor
Mr. LIU Ruifeng	Chief Engineer for China Earthquake Networks Center

### JMA side:

Mr. SAKURAI Kunio	Director-General
Mr. HASEGAWA Naoyuki	Head, Office of International Affairs
Mr. KOIZUMI Takeshi	Senior Coordinator for International Earthquake and Tsunami Information, Earthquake and Tsunami Observations Division

# Appendix B

## **Provisional Agenda for the Fifth Tripartite Meeting on Earthquake Cooperation among KMA, CEA and JMA**

1. **Opening of the Meeting**
2. **Approval of the Agenda**
3. **Introduction of Earthquake Services of the Three Sides**
4. **Review of Cooperative Activities since the Fourth Tripartite Meeting in 2008**
5. **Future Cooperative Activities**
  - 5.1 Exchange and Expansion of Seismic Data
  - 5.2 Development of Foundation for Collaboration against Volcanic Activities in Northeast Asia
  - 5.3 Real-time Exchange of Tsunami Observations
  - 5.4 Exchange of Geophysical Observational Data and Sharing of Data Processing Technology
  - 5.5 Sharing of Important Past Earthquakes Observations
6. **Designation of Focal Points**
7. **Next Meeting**
8. **Closure of the Meeting**

# Appendix C

## List of the Focal Points for Each Cooperative Activity

### 5.1 Exchange and Expansion of Seismic Data

Side	Focal Point	Department & Contact information	
KMA	Mr. HONG Sung-Dae	Dep.	Earthquake Policy Division
		Tel.	82-2-2181-0764
		Fax.	82-2-841-7664
		E-mail	sdhong@kma.go.kr
CEA	Mr. LIU Ruifeng	Dep.	China Earthquake Networks Center
		Tel.	+86-10-59959206
		Fax.	+86-10-59959214
		E-mail	liurf@seis.ac.cn
JMA	Mr. KAWAKAMI, Tetsuto	Dep.	Administration Division
		Tel.	+81-3-3211-8684
		Fax.	+81-3-3212-2857
		E-mail	kawakami@met.kishou.go.jp

### 5.2 Development of Foundation for Collaboration against Volcanic Activities in Northeast Asia

Side	Focal Point	Department & Contact information	
KMA	Mr. LEE Kyung-Hi	Dep.	Earthquake Policy Division
		Tel.	82-2-2181-0763
		Fax.	82-2-841-7664
		E-mail	sdhong@kma.go.kr
CEA	Mr. LIU Ruifeng	Dep.	China Earthquake Networks Center
		Tel.	+86-10-59959206
		Fax.	+86-10-59959214
		E-mail	liurf@seis.ac.cn
JMA	Mr. SAITOU Makoto	Dep.	Volcanological Division
		Tel.	+81-3-3284-1749
		Fax.	+81-3-3212-3648
		E-mail	msaito@met.kishou.go.jp

### 5.3 Real-time Exchange of Tsunami Observations

Side	Focal Point	Department & Contact information	
KMA	Mr. HONG Sung-Dae	Dep.	Earthquake Policy Division
		Tel.	82-2-2181-0764
		Fax.	82-2-841-7664
		E-mail	sdhong@kma.go.kr
CEA	Mr. LIU Ruifeng	Dep.	China Earthquake Networks Center
		Tel.	+86-10-59959206
		Fax.	+86-10-59959214
		E-mail	liurf@seis.ac.cn
JMA	Mr. OZAKI, Tomoaki	Dep.	Earthquake and Tsunami Observations Division
		Tel.	+81-3-3284-1743
		Fax.	+81-3-3215-2963
		E-mail	tozaki@met.kishou.go.jp

### 5.4 Exchange of Geophysical Observational Data and Sharing of Data Processing Technology

Side	Focal Point	Department & Contact information	
KMA	Dr. JEON Young-Soo	Dep.	Global Environment System Research Division
		Tel.	82-2-6712-0355
		Fax.	82-2-841-2787
		E-mail	ysjeon@kma.go.kr
CEA	Mr. LIU Ruifeng	Dep.	China Earthquake Networks Center
		Tel.	+86-10-59959206
		Fax.	+86-10-59959214
		E-mail	liurf@seis.ac.cn
JMA	Mr. FUNASAKI, Jun	Dep.	Earthquake Prediction Information Division
		Tel.	+81-3-3211-4583
		Fax.	+81-3-3212-2807
		E-mail	funasaki@met.kishou.go.jp

### 5.5 Sharing of Important Past Earthquakes Observations

Side	Focal Point	Department & Contact information	
KMA	Dr. HWANG Eui-Hong	Dep.	Earthquake Policy Division
		Tel.	82-2-2181-0769
		Fax.	82-2-841-7664
		E-mail	hkawon@kma.go.kr
CEA	Mr. LIU Ruifeng	Dep.	China Earthquake Networks Center
		Tel.	+86-10-59959206
		Fax.	+86-10-59959214
		E-mail	liurf@seis.ac.cn
JMA	Mr. FUNASAKI, Jun	Dep.	Earthquake Prediction Information Division
		Tel.	+81-3-3211-4583
		Fax.	+81-3-3212-2807
		E-mail	funasaki@met.kishou.go.jp

**International Cooperation focal points:**

Side	Focal Point	Department & Contact information	
KMA	Dr. YUN Won-Tae Director	Dep.	International Cooperation Division
		Tel.	+ 82-2-2181-0372
		Fax.	+ 82-2-836-2386
		E-mail	wtyun@kma.go.kr
CEA	Mr. XU Zhizhong	Dep.	Division of Bilateral Cooperation, Dept. of International Cooperation
		Tel.	+86-10-88015516
		Fax.	+86-10-68210995
		E-mail	xuzhizhong@gmail.com
JMA	Mr. HASEGAWA, Naoyuki Head	Dep.	Office of International Affairs
		Tel.	+81-3-3211-4966
		Fax.	+81-3-3211-2032
		E-mail	n-hasegawa@met.kishou.go.jp

**Working Cooperation focal points:**

Side	Focal Point	Department & Contact information	
KMA	Dr. LEE Duk-Kee Director	Dep.	Earthquake Policy Division
		Tel.	+ 82-2-2181-0762
		Fax.	+ 82-2-836-2386
		E-mail	dukkee@kma.go.kr
CEA	Mr. XU Zhizhong	Dep.	Division of Bilateral Cooperation, Dept. of International Cooperation
		Tel.	+86-10-88015516
		Fax.	+86-10-68210995
		E-mail	xuzhizhong@gmail.com
JMA	Mr. KOIZUMI, Takeshi Senior Coordinator	Dep.	Earthquake and Tsunami Observations Division
		Tel.	+81-3-3284-1743
		Fax.	+81-3-3215-2963
		E-mail	t-koizumi@met.kishou.go.jp