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**Memorandum of Understanding**  
**on**  
**Multilateral Scientific Cooperation**  
**arrived at during the**  
**IHY Asia/Pacific Regional Planning Meeting**  
**Beijing, October 12, 2006**

The International Heliophysical Year (IHY) 2007-2008 is an extensive international program to study the universal physical processes in the heliospace for a better understanding of the Sun-heliosphere system. In particular, the neutral and ionized matter in the heliospace and the interaction between them will be studied, from the atmospheres of Earth and planets to the interplanetary medium. The tradition of international science years began almost 125 years ago with the first international scientific studies of global processes at the North Pole in 1882-3, followed by a second international polar year organized in 1932, then the IGY during 1957-58. The IHY will continue the legacy of the IGY by extending the geophysical studies of 50 years ago to the combined system of the Sun and the planets. IHY also extends the physical realm from geospace to heliospace, recognizing the enormous progress made over the past 50 years.

There are four key elements of IHY: 1) Science (coordinated investigation programs or CIPs conducted as campaigns to investigate specific scientific questions), 2) Instrument development (the IHY/UNBSS program), 3) Public Outreach (to communicate the beauty, relevance and significance of the space science to the general public and students), and 4) the IGY Gold program (to identify and honor all those scientists who worked for the IGY program).

The IHY Asia/Pacific Planning Meeting was held in Beijing during October 10-12, 2006 hosted by the State Key Laboratory of Space Weather and Chinese

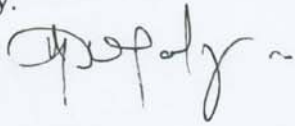
Meridian Project Management Office, with the sponsorship from the Center for Space Science and Applied Research, Chinese Academy of Sciences, National Natural Science Foundation of China, and the China National Space Administration. Representatives from IHY headquarters, China, Japan, Korea, Malaysia, Russia, and USA participated in the meeting. Representatives from Canada and Mongolia submitted their reports to the meeting.

After comprehensive exchange of information and discussion, all parties expressed their strong interest in multilateral cooperation within the framework of IHY. All parties agree to the following memorandum of understanding:

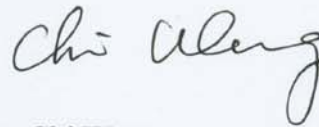
1. The multilateral activities to be promoted include:
  - a) Interplanetary Scintillation (IPS) network to study the propagation of geoeffective solar disturbances
  - b) Asia-Pacific H-alpha network to study the early life of solar eruptions
  - c) Possible collaboration with CALLISTO to monitor shock waves near the Sun
  - d) Data Center for Solar and geospace data to promote world-wide collaboration
  - e) Magnetometer Data Acquisition System (MAGDAS) to study the geospace impact of solar disturbances
  - f) Particle Detector network to study cosmic ray modulation by magnetic structures in the heliosphere
2. International Meridian Circle Project is an important IHY activity in the Asia-Pacific region and all countries in the region will strive to participate in the project
3. A committee has been established to promote cooperative modeling of the Sun-Heliosphere system. Developing a framework for data-driven integrated simulation models for the study of the essential physics involved in the initiation and propagation of solar disturbances from the Sun to Earth and beyond to the edge of the heliosphere.
4. The IHY school in the Asia/Pacific region will be held in 2007 and possibly in 2008. The exact location and date will be decided in consultation with the potential host countries such as Malaysia, China, and India.
5. The official website of the Asia-Pacific regional IHY will be maintained in China. The web site URL is [www.AP-IHY.org](http://www.AP-IHY.org).

This memorandum of understanding will be sent for approval from all the national representatives in the Asia-Pacific region.

On behalf of the IHY Secretariat/USA this day:      On behalf of China this day

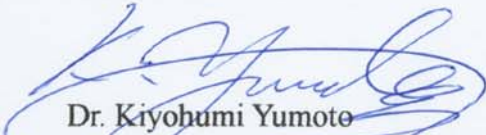


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On behalf of Japan this day



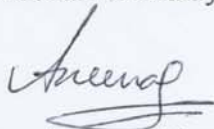
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On behalf of Korea this day



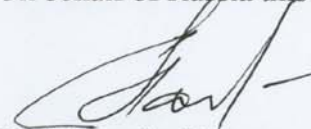
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