



Activities and Status on GEOSS in Korea

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1. Korea's National Strategy

Vision

- ▶ To promote the national economic development to protect life and property, and to contribute to sustainable development by sharing, integrating and utilizing the Global Earth Observation data and information

Target

- ▶ Improving better understanding of global environmental changes and its predicting
- ▶ Strengthening national GEOSS information
- ▶ Building on national GEOSS initiatives for exploring, strengthening and outreaching sustainable observation component
- ▶ Building the infrastructure of science and technology and training personnel in relevant areas

Governance Structure

National Strategic Committee for responding to GEOSS

- **Consisting of high level officials of relevant ministries and administrations including MEST, MOCT, MOE, and KMA**
- **Devising and assessing the Korea GEOSS strategic plan, implementation plan and R&D policy, and supporting for the GEOSS activities**

Interagency Working Group on GEOSS

- **Establishment under the National Strategic Committee**
- **Consisting of officials and experts from relevant organizations**
- **Reviewing the short- and long-term implementation results and taking the improved measures**

Korea Secretariat for GEO

- **Playing a role of contact point with the GEO Secretariat**
- **Carrying out the administrative and technical business**

Function of Korea Secretariat for GEO

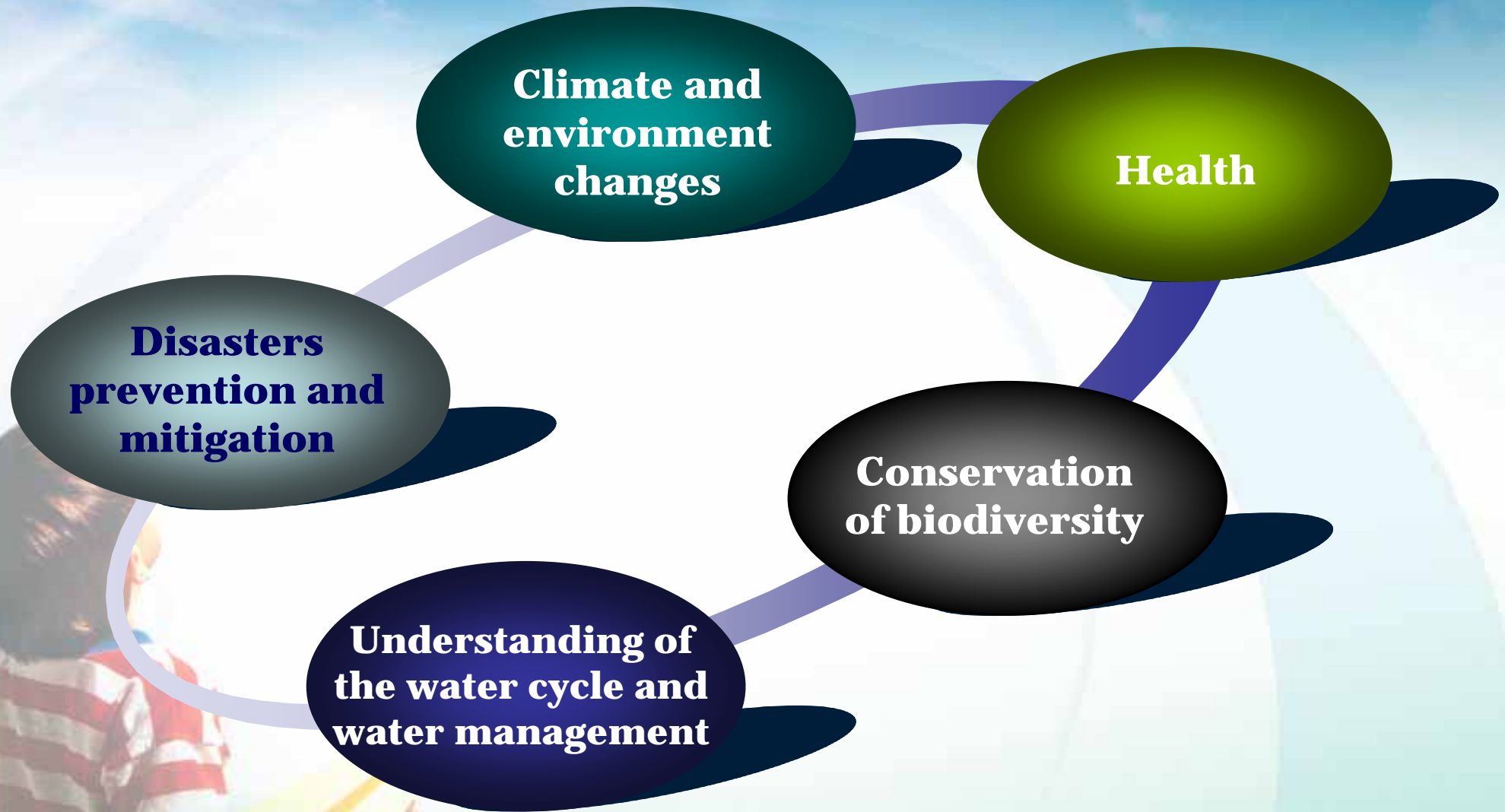


Observing Sectors in Korea

Selection of twelve observing sectors required for maximizing the nine GEOSS societal benefits



The Implementation Areas with High Priority



International Activities

- ▶ Korea has participated in GEOSS activities since the first Earth Observation Summit (EOS-I) with sharing the objectives of GEOSS



2. Activities of KGEO : General

Host Group Meeting

Korea's GEOSS Workshop

2007-2009 GEO Targets

Korea GEOSS News Letter

Public Relations

Host Group Meeting

Advisory Group Meeting

- Introduction for GEO 2007-2009 Targets
- Collecting opinion for the operation of the Korea Secretariat for GEO from many different advisory members



Interagency Working Group

- Changing Governmental Structure members
- Report on GEO 2007-2009 Targets



Korea's GEOSS Workshop

GEOSS Workshop for Users (Dec. 22 2007, Seoul)

- From many Government agencies
- Presentation on the GEOSS Construction and Discussion




2007 - 2009 GEO Targets

Participate GEO 2007 - 2009 Targets

- From many different wheels of Government, Agency, and Institute




 Disaster :

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 Water :

 Weather :

, THORPEX Interactive Global Ensemble

 Ecosystems :

(IGCO),

 Agriculture :

,

Architecture :

Data :

,

,

, DEM

,

Release Korea-GEOSS Newsletter

Korea GEOSS Newsletter from Aug. 2007

- GEO Activities and GEOSS Construction Information
- GEO Policy Close-up and Photo News
- Draw attention Users and Decision makers



Public Relations for GEOSS

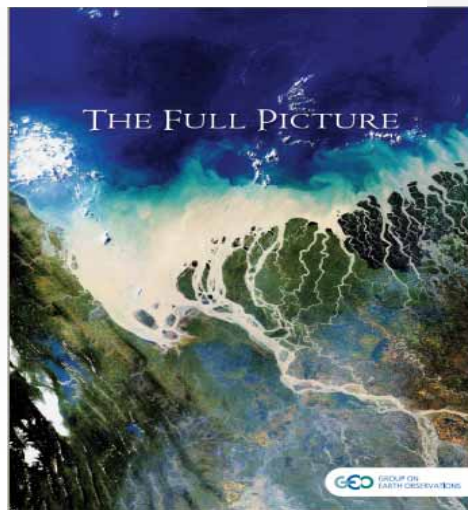
GEO The Full Picture

Climate monitoring and prediction in Korea

Man-Ki Lee, Administrator, Korea Meteorological Administration

KoFlux contribution to GEOSS: HydroKorea II and CarboEastAsia

*Joon Kim, Department of Atmospheric Sciences & Global Environmental Laboratory,
Yonsei University, Seoul; Sung Kim, Sustainable Water Resources Research Center/KICT, Korea*



Report on Progress 2007

- APEC Climate for Information Services
- KMA activities for capacity building of GEO



3. Activities of KGEO : GEOSS

▶ GEOSS Training Study (Japan & U.S)

▶ Study on Establishment of National GEOSS

▶ Example of Plan for GEOSS

GEOSS Training Study

GEOSS Training Study (May 30 ~ June 8 2007)

- 13 Officers from 8 different Agency including MEST, KMA, NEMA etc.
- Visit MEXT/Japan, NOAA/U.S for Studying on the GEOSS



Study on Establishment of National GEOSS

Aim

Planning Research for Implementing National GEOSS

Goals

- Development of Metadata Standardization Strategy for sharing domestic Observation Data
- GEOSS Structure Design and Strategy Development for Integrated operation of domestic Earth Observation System
- Policy Development for establishing 'Integrated National GEOSS Operational Center'



[KGEO Web Portal



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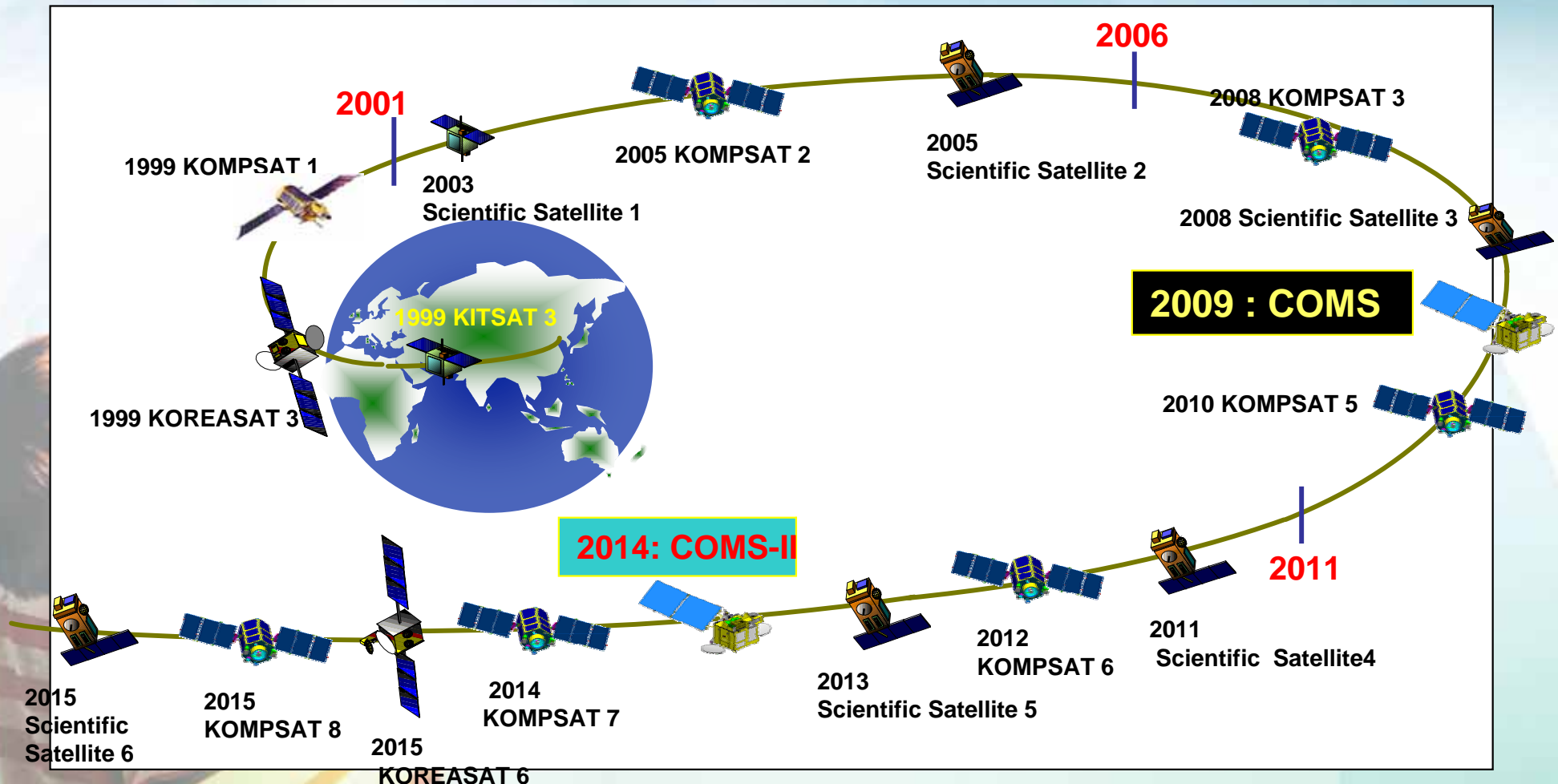
Example of Plan for GEOSS

- ▶ KMA Plan to launch a multipurpose geostationary satellite (Communication, Ocean and Meteorological Satellite; COMS) in 2009
To provide higher resolution meteorological and oceanographic data
Meteorological data will be disseminated in real time to worldwide users either by direct broadcasting or land lines.

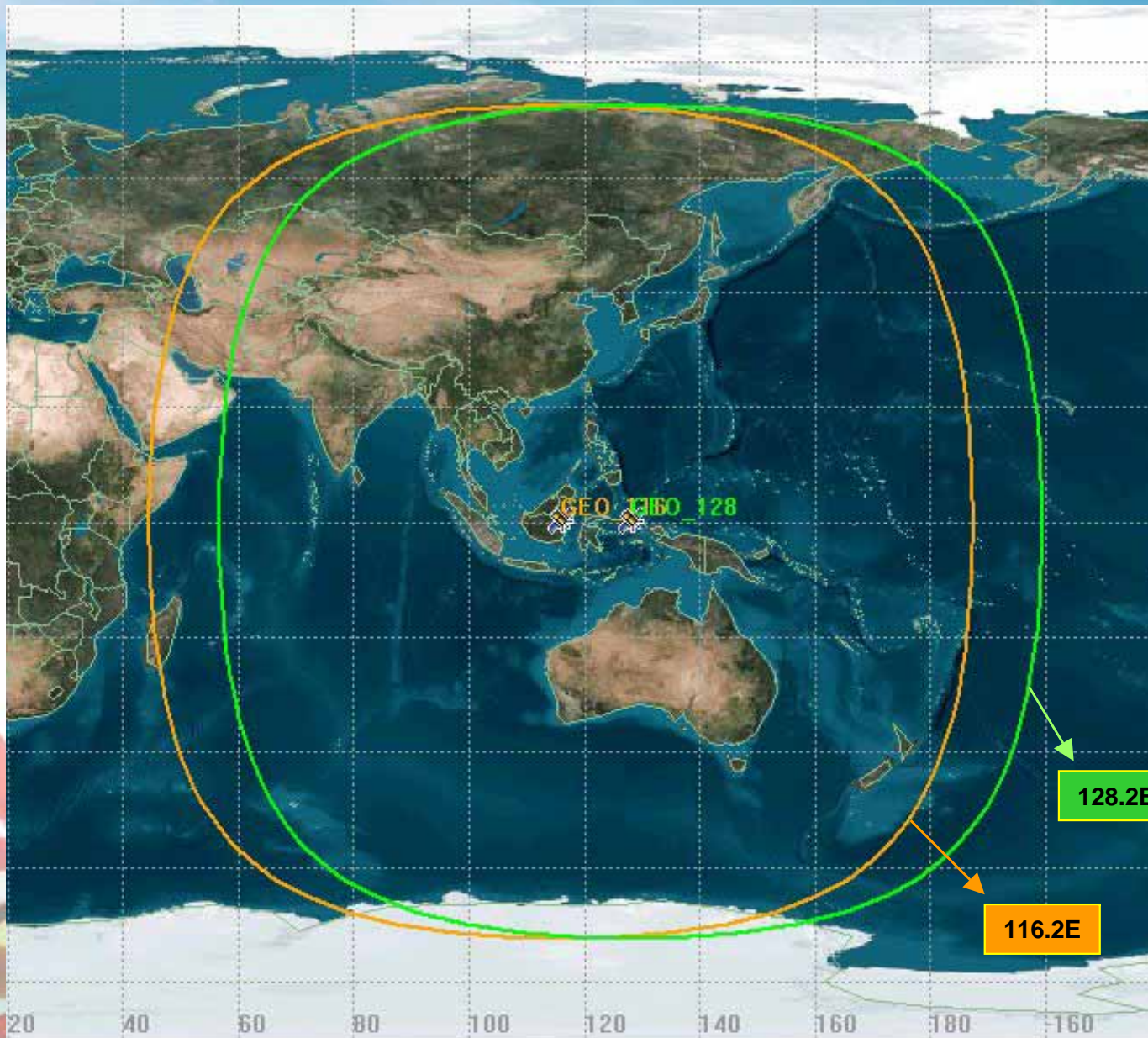


National Space Development Plan

COMS: Communication, Ocean & Meteorological Satellite



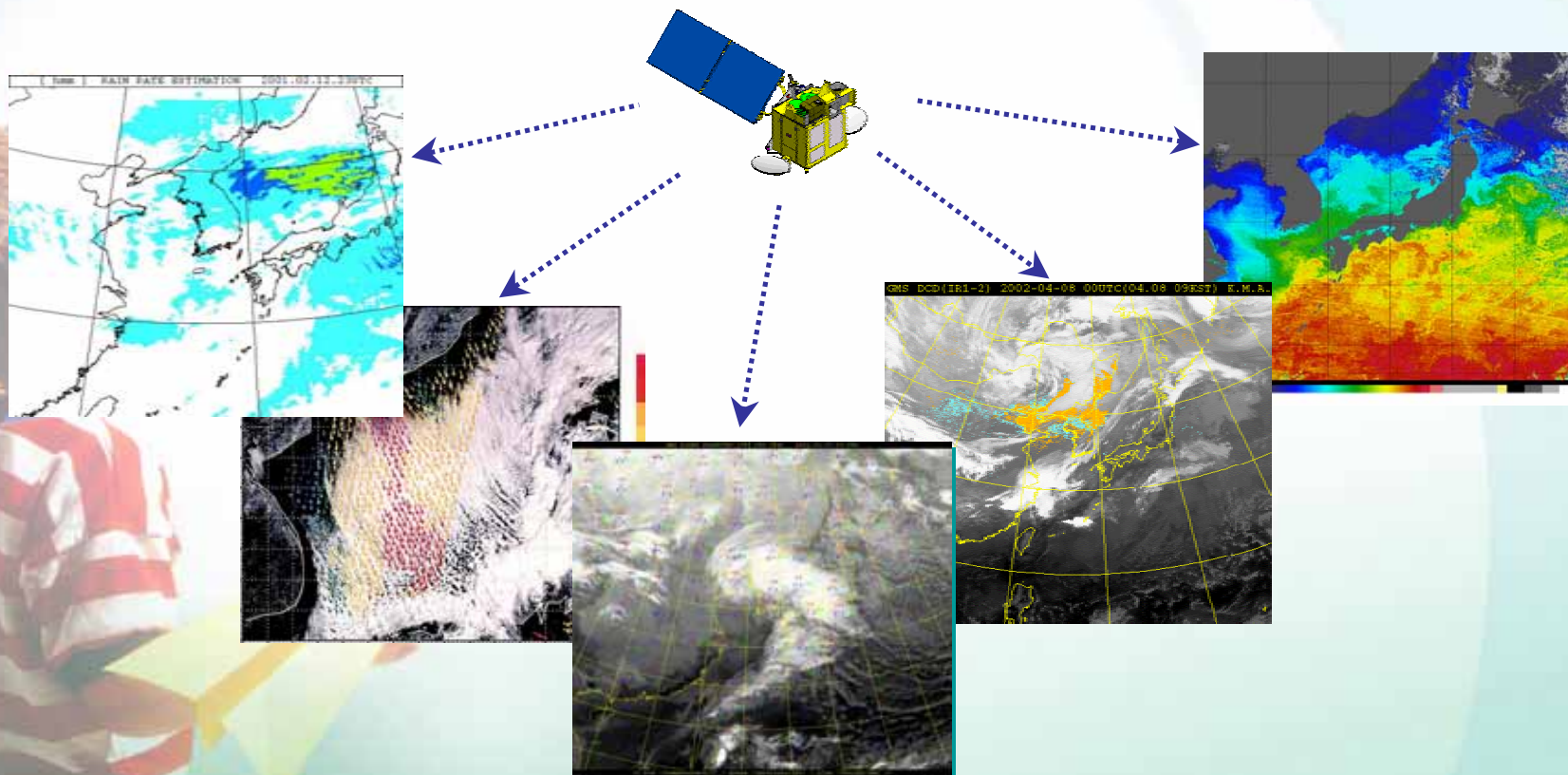
Processed Data Distribution Coverage



COMS Missions

Weather Monitoring

- ▶ Continuous monitoring of imagery and extracting of MET products
- ▶ Early detection of severe weather phenomena
- ▶ Monitoring of long-term change of SST and cloud for climate



4. Activities of KGEO : International

Invitation of GEO Secretariat Director

GEO Training Workshop on NWP

Training Workshop on Climate Prediction

GEO-IV Plenary and Ministerial Summit

GEO Trust Fund & Seconded Expert

Invitation of GEO Secretariat Director

GEO Secretariat Director Dr. Jose Achache (Mar. 22~24
2007)

- Discuss on the NWP Capacity Building Workshop and cooperation with Korea
- Give presentation on World Meteorological Day

“GEOSS To Understand Trends, Forecast Evolutions, and Inform Decisions”



GEO Training Workshop on NWP

GEO Capacity Building Workshop for NWP (Apr 9~13)

- 15 participants from 14 GEO Members
- To train forecasters or NWP relevant staff members from GEO Members in the application and interpretation of NWP products and their use in operational forecasting and to share the knowledge of NWP techniques with GEO members as a part of GEO Capacity building projects to improve their own capabilities for prevention of meteorological disasters.



Training Workshop on Climate Prediction

Training Workshop for Climate Prediction (Aug 3~Nov 3 2007)

- 5 participants from Indonesia, Peru, Mongolia, Philippines and Vietnam
- To contribute the reduction of economic losses, and the protection of life and property among participating developing countries by sharing high-cost climate data and information and providing a skillful real-time climate prediction



GEO-IV Plenary and Ministerial Summit

GEO Plenary and Ministerial Summit (Nov. 28~30 2007., South Africa)

- Vice Minister and 8 Delegates Participated
- GEO Progress report and Cape Town Declaration Adoption



GEO Trust Fund & Seconded Expert

Support GEO Trust Fund

- Korea government support from the GEO first year till now
- 2006 : USD 88,000
- 2007 : USD 88,000
- 2008 : USD 88,000
- Next Year : ??



Seconded Expert

- Mr. Yong-Seong Kang from July 2007
- Working for Weather and Capacity Building Committee



5. Korea's Contribution to GEO & Future Plan

▶ GEOSS

- Development and implementation of the K-GEOSS
- R&D Development for GEOSS

▶ GEO

- Hosting GEO Expert Workshop
- Promoting Korea participating Tasks in GEO Tasks in 2009-2011

▶ International

- Contribution to GEO by Trust Fund and sending expert to the Secretariat
- Being Selected GEO Executive Committee in 2008
- Hosting Capacity Building Workshop in 2009
- Host the 7th GEO Plenary and Ministerial Summit meeting in 2010

Thank you for your attention!

More Information: <http://www.kgeo.go.kr>

한국지구관측그룹

Korea Group on Earth Observations

What we do?

- 인류의 지속 가능한 발전을 위한 **전자구적인 역량과 수단**의 확대
- 사회·경제적 편익을 높이기 위한 **GEOSS의 안전하고 종합적인 지구시스템 관측**

공지사항 | MORE | 보도자료 | 자료실

- [2007.05.03] GEOSS 구조 이행 시범사업 전회회의 결과
- [2007.05.03] 지구관측그룹(GEO) 사무국장 초청 강연자료
- [2007.05.03] [알림] 2007년 GEO관련 국제회의 일정
- [2007.05.03] [알림] 2006년 GEO관련 국제회의 일정(11월~2007....
- [2007.05.03] [알림] 2006년 GEO 관련 국제회의 일정(10월~11월...

기후

기후변동과 변화에 대한 이해, 평가, 예측, 완화, 적응

우주 기반의 원격관측과 현장관측에 의한 자료들은 기후 변화가 어디서, 어떻게, 어느 정도로 발생할 것인가에 관한 정보를 제공함으로써 인류가 기후변화에 적응할 수 있도록 할 것이다.