



## **GEO-VIII Exhibition Information Booklet**

**15-17 November  
2011 – Istanbul**

The GEO-VIII Exhibition highlights some of the key contributions that GEO member governments and participating organizations are making to GEOSS.

### **Show hours:**

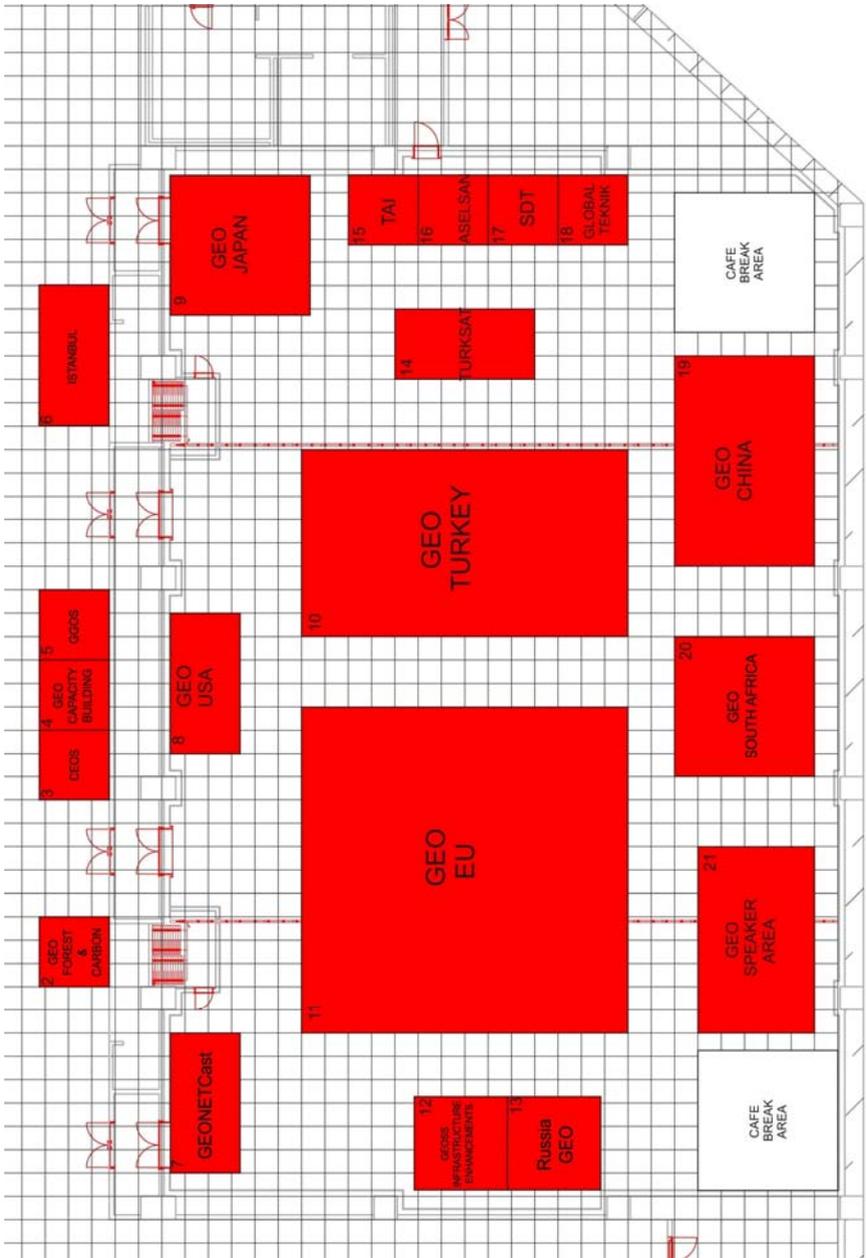
Tuesday 15 Nov.  
– 2:30 pm to 5:30 pm

Wednesday 16 Nov:  
– 8:30 am to 7 pm  
***Official Opening***  
***–10 to 10:30 am***

Thursday 17 Nov:  
– 8:30 am to 4 pm



**GROUP ON  
EARTH OBSERVATIONS**



## **GEO-VIII EXHIBITORS**

### **Aselsan (booth 16)**

Aselsan is a high technology, multi-product defense-electronics company active in the design, development and production of communications, radar, electro-optics, navigation & avionics, and homeland security solutions. It is Turkey's leading company in the field of satellite communication systems and plays an active role in the country's satellite programs. Products include satellite transponders, electro-optical and SAR payloads, TT&C subsystems, and fixed and mobile satellite ground stations.

### **China GEO (19)**

China GEO is demonstrating China's global observation systems and applications as well as related observation equipment, such as meteorological radar, wind profiler radar, and satellite data receiving systems.

### **Committee on Earth Observation Satellites (CEOS) (3)**

The Committee on Earth Observation Satellites (CEOS), the space-segment provider for GEOSS, is featuring demonstrations of key data portals and highlights of CEOS initiatives relating to space-based Earth observations for societal benefit.

### **European Union (11)**

The European Commission supports GEOSS through the ENVIRONMENT (with an emphasis on societal benefit areas) and SPACE (GMES) research themes. It also works closely with EU countries and GEO Participating Organizations such as ESA and EUMETSAT to shape a coordinated European contribution to GEO. In addition to the main booth the European Commission is also sponsoring a GEO EU Speakers Area (booth 21).

### **GEO Capacity Building (4)**

This booth features successful capacity-building initiatives and highlights success stories about

Earth observation applications. It also provides tips on resource mobilization for users of earth observation and offers an opportunity for people new to Earth observation to explore which solutions could be of benefit to them. Highlighted issues include water-resources management, food security, energy and low-cost satellite solutions for communities in developing countries.

### **GEO Forests & Carbon (2)**

This booth will present the GEO Forest Carbon Tracking (FCT) task, the Global Forest Observation Initiative (GFOI) and the Integrated Global Carbon Observation and Analysis System.

### **GEONETCast (7)**

The GEONETCast booth highlights the further integration of GEONETCast with the GEOSS Common Infrastructure. It allows visitors to search for products in the GEO Web Portal, which is followed by their real-time delivery via GEONETCast. Capacity building is also highlighted, with a focus on a joint Turkish State

Meteorological Service (TSMS) and the EUMETSAT initiative called “SADACA”, which will provide GEONETCast access in five data-poor countries in Central Asia (Turkmenistan, Uzbekistan, Tajikistan, Kyrgyzstan and Kazakhstan).

### **GEOSS Infrastructure Enhancements (12)**

Sponsored by the GEO Architecture and Data Committee (ADC), the Open Geospatial Consortium (OGC) and EOX/rasdaman, this exhibit hosts demonstrations of the “Sprint to Plenary” enhancements to the GEOSS Common Infrastructure (GCI). It also features the results of the latest Architecture Implementation Pilot (AIP-4) and prototypes some of the new capabilities of GEOSS and the GCI. A schedule of demonstrations is available at the booth.

### **Global Geodetic Observing System (GGOS) (5)**

We live on a dynamic planet in constant motion that requires long-term, continuous

quantification of its changes in a truly stable frame of reference. GGOS provides this basis and advances our understanding of the dynamic Earth system by quantifying our planet's changes in space and time. GGOS acts as the interface between the geodetic services and external users such as the Group on Earth Observation (GEO), United Nations authorities and the International Council for Science (ICSU). GGOS aims to ensure geodetic interoperability within GEOSS.

### **Global Teknik (18)**

This Ankara-based company focuses on a wide range of technologies and applications, including system integration, the production and installation of weather observation stations, and communications technologies. It is the manufacturer of the Automatic Weather Observation Systems (GLOBAWOS) and Radiosonde Systems, and it is active in the fields of automation, simulations, security and related products and technologies.

### **Istanbul Metropolitan Municipality (IBB) (6)**

The host city of the GEO-VIII Plenary will highlight its activities and the key attractions of the city of Istanbul. The projects being presented here are mainly related to early warning systems and disaster management.

### **Japan GEO (9)**

Japan GEO is presenting the Greenhouse Gases Observing Satellite (GOSAT), the ASTER Global Digital Elevation Model (GDEM), Global Mapping, the Asian Water Cycle Initiative (AWCI), the African Water Cycle Coordination Initiative (AfWCCI), the Data Integration and Analysis System (DIAS), In-situ Ocean Observations, the Global Earth Observation Grid (GEO Grid), the Japanese Alliance for Climate Change Observation, the Research Program on Climate Change Adaptation (RECCA) and other contributions. Short lectures about these activities, including earth observations for the Great East Japan Earthquake of last March, are scheduled during coffee and lunch breaks.

### **Russia GEO (13)**

This booth features contributions such as the Russian State System of Information on the World Ocean (ESIMO), the real-time hydrological data management system called CliWare, related products including instruments for hydrometeorological observations and environmental monitoring, and Russia's participation in GEONETCast.

### **South Africa GEO (20)**

South Africa has vast capabilities in Earth observation. This exhibit provides an overview of South African EO activities with special emphasis on research done to benefit all South Africans and ensure the sustainability of our environment. Some of the projects are a direct contribution to GEOSS. The Space Secretariat has been set up to coordinate and facilitate cooperation between EO Stakeholders in South Africa.

### **Space & Defense Technologies (SDT) (17)**

Headquartered in Ankara, SDT provides a range of software and

hardware capabilities, including synthetic aperture radar technologies, image processing and pattern recognition, radar, and ground stations. SDT is presenting its expertise in sensor signal & image processing, image analysis and recognition software on SAR images, multi-sensor data fusion software for SAR, electro-optical image analysis systems, and satellite technologies for SAR payload signal processing and SAR/EO satellite ground station image processing systems.

### **Turkish Aerospace Industries (TAI) (15)**

TAI is one of Turkey's leading technology centers for the design, development, manufacture, integration, modernization, and after-sales support of aerospace systems. It offers a full spectrum of advanced-technology space systems for national security, civil and commercial customers. TAI is dedicated to improving its coverage of the national and international aerospace market with its indigenous high-quality aerospace products including commercial aircraft, UAVs,

helicopters, satellites and satellite subsystems.

### **Turkey GEO (10)**

Turkey is committed to strengthening its Earth observation capabilities in a variety of fields. This exhibit demonstrates the country's recent accomplishments and future plans, mostly involving government institutions and universities. The Scientific and Technological Council of Turkey (TÜBİTAK), the host institution for GEO-VIII and coordinator of the stand, is the leading agency for the management, funding and conduct of research in Turkey. To carry out its mission, TÜBİTAK has established research grant committees to support projects for the environment, atmosphere, earth and marine, engineering, security, space, health, electronics, basic sciences and agricultural sciences.

### **Türksat (14)**

The only satellite operator company in Turkey, Türksat S.A. manages and operates three satellites and provides all types

of satellite communications through Türksat and other satellites. The company's expertise includes satellite/space technologies, information technologies / e-government, cable TV platforms, and geographical information technologies. TürksatGlobe products and services include the TürksatMaps Portal, fleet & vehicle management, GIS design & implementation, NSDI feasibility studies, and very high resolution (50 cm) satellite imagery supply & processing for geospatial applications such as disasters, health, energy, climate, water supply, etc.

### **USGEO (8)**

From sustained Arctic observations and real-time air-quality scales to advanced drought monitoring and a 20-country network that is analyzing millions of trees for climate change impacts, the USGEO exhibit captures current and developing contributions to GEOSS. Special features include imagery, demonstrations, and expert discussions.

