

## **ROGER HAAGMANS**

Head of Solid Earth Unit  
Mission Science Division,  
Earth Observations Department of Science, Applications and Future Technologies  
European Space Agency  
Keplerlaan 1, 2201 AZ Noordwijk ZH The Netherlands  
Tel: +31 71 5653506, Fax: +31 71 5655675  
E-mail: roger.haagmans@esa.int

### **■ EDUCATION**

Gymnasium  $\beta$ , scholengemeenschap St. Michiel, Geleen, The Netherlands, graduation 1981

Geodesy at the Faculty of Geodetic Engineering, Delft University of Technology, The Netherlands;  
M.S.1988

Military Service 1988- 1989. Employed as “Academic officer” (ROAG) at the Directorate Scientific Research and Development of the Dutch Ministry of Defense. Altimetry related research.

### **■ PROFESSIONAL EXPERIENCE**

Assistant professor at the Faculty of Geodetic Engineering of Delft University of Technology in the Netherlands (1990-1999)

Scientific staff of the Delft Institute for Earth-Oriented Space research DEOS at DUT, NL (1995-1999)

Scientific staff of the Vening Meinesz research School of Geodynamics VMSG (1996-1999), NL  
Member of the Ph.D. and Postdocs monitoring committee of the VMSG, (1996-1999), NL

Scientific staff of the Netherlands Research Centre for Integrated Solid Earth Science ISES (1999)

Associate professor in Geodesy and Surveying at the Faculty of Mapping Sciences of the Agricultural University in Ås, Norway (2000-2001)

Head of Solid Earth Unit in the Mission Science Division, D-EOP, European Space Agency, 2001-present.

Project Scientist for Geodetic and Solid Earth aspects of the GOCE mission  
Mission Scientist of the Swarm mission; convener of the Mission Advisory Group

### **■ SELECTION OF MEMBERSHIPS AND ACTIVITIES**

International Association of Geodesy (IAG) and various IAG special study groups

- IAG SSG 2.151 Altimetry: Optimal Processing for Geodesy, Geophysics, and Oceanography. 1991-1995
- IAG SSG 4.168 Inversion of Satellite Altimetry. 1995-1999

- IAG SSG 3.163 Assessment and Refinement of Global Digital Terrain Models. 1995-1999
- IAG SSG 3.167 Regional Land and Marine Geoid Modeling. 1999-2003
- IAG SSG 3.177 Synthetic Modeling of the Earth's Gravity Field. 1999-2003
- IAG SSG 4.187 Wavelets in Geodesy and Geodynamics. 1999-2003

European Geophysical Society (EGS)

Nederlandse Vereniging voor Geodesie (NVG)

Sub-commission Marine Geodesy of the Netherlands Geodetic Commission of the Royal Dutch Academy of Sciences

National representative in the International Geoid Commission of the IAG

National representative in the International Gravity Commission of the IAG

National responsible for gravity certification for the Dutch Council for Accreditation

Nordic Geodetic Commission: working group on satellite altimetry and height systems

Investigator in many projects like

- the Earth Oriented Space Research funded by SRON, NL
- satellite altimetry studies with ERS-1, ERS-2, TOPEX/Poseidon, Jason and ENVISAT
- within the E.U. framework programme: MANICORAL 1996-1997
- E.U. Cost effort EOSS, 1997
- various funded by the Dutch Rijkswaterstaat and oil companies.

Scientific advisor to 17 master and Ph.D. students and advisor to 4 ESA research fellows.

Organiser of many international workshops and sessions at international conferences

Regular reviewer of scientific papers and research proposals from various national and international programmes and coordinating reviews for Solid Earth missions in the context of ESA's Earth Observation programme.

#### ■ RESEARCH INTEREST

Part of my interests are in geodesy, gravity field studies from terrestrial, airborne and dedicated satellite gravity missions and from satellite altimetry. I also focus on the geophysical and oceanographic applications, land-sea height systems and marine geodesy and hydrography. Furthermore, the (geo-)magnetic field of the Earth and other space-borne techniques like InSAR, atmospheric sensors and constellation analysis to study the interior of the Earth are important aspects.

#### ■ PUBLICATIONS

> 60 scientific publications

Editor of the *Lecture Notes in Earth Sciences* no 90 of the School on *Wavelets in the Geosciences*, Springer-Verlag, 2000

Editor of special issue on Swarm of Earth Planets and Space Volume 58 (No. 4), pp. 349-496, 2006.

Scientific co-ordinator of ESA SP-1279(6) – Swarm – The Earth's Magnetic Field and Environment Explorers, 2004