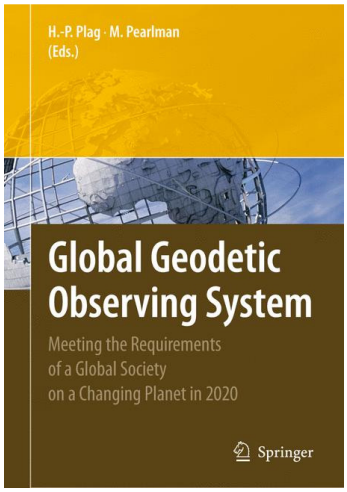
Springer
the language of science

springer.com



Hans-Peter Plag, University of Nevada, Reno, NV, USA; Michael Pearlman, Harvard Smithsonian Center for Astrophysics, Cambridge, MA, USA (Eds.)

Global Geodetic Observing System

Meeting the Requirements of a Global Society on a Changing Planet in 2020

With the provision of accurate reference frames and observations of changes in the Earth's shape, gravity field and rotation, modern geodesy takes a fundamental role for improved understanding of geodynamics, geohazards, the global water cycle, global change, atmosphere and ocean dynamics, and it supports many societal applications that depend on accurate geo-referencing. To advance geodetic theory, methods and infrastructure for Earth system science and applications, the International Association of Geodesy (IAG) has established the Global Geodetic Observing System (GGOS). This book provides a comprehensive overview of geodesy's contribution to science and society at large, and it identifies user needs and requirements in terms of geodetic observations and products. Specifications for a global geodetic observing system that would meet these requirements lead to considerations of system design and implementation.

Contents: Executive Summary.- 1 Introduction.- 2 The goals, achievements, and tools of modern geodesy.- 3 Understanding a dynamic planet: Earth science requirements for geodesy.- 4 Maintaining a modern society.- 5 Earth observation: Serving the needs of an increasingly global society.- 6 Geodesy: Foundation for exploring the planets, the solar system and beyond.- 7 Integrated scientific and societal user requirements and functional specifications for the GGOS.- 8 The future geodetic reference frame.- 9 The future Global Geodetic Observing System.- 10 Towards GGOS in 2020.- 11 Recommendations.- References.- Acronyms and abbreviations.- Index.

2009. XLIV, 332 p. 66 illus., 52 in color. Hardcover

• **€ 129.95 | £ 118.50 |**

ISBN: 978-3-642-02686-7

available

Order Now!

Yes, please send me ____ copies

Plag & Pearlman (Eds), Global Geodetic Observing System
O I have published with Springer
ISBN: 978-3-642-02686-7 • € 129.95 | £ 118.50

○ Please bill me
○ Please charge my credit card: ○ Eurocard/Access/Mastercard ○ Visa/Barclaycard/Bank/Americard ○ AmericanExpress

Number ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐ Valid until ☐☐☐☐

Available from

Springer
Customer Service Center GmbH
Haberstrasse 7
69126 Heidelberg
Germany

Name
Dept.
Institution
Street
City / ZIP-Code
Country
Email
Date ✖ Signature ✖

► **Call:** + 49 (0) 6221-345-4301 ► **Fax:** +49 (0) 6221-345-4229
► **Email:** orders-hd-individuals@springer.com ► **Web:** springer.com

All € and £ prices are net prices subject to local VAT, e.g. in Germany 7% VAT for books and 19% VAT for electronic products. Pre-publication pricing: Unless otherwise stated, pre-pub prices are valid through the end of the third month following publication, and therefore are subject to change. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted.