



# Elevation Models

## *for* Geoscience

Thursday March 23rd, 2006

Burlington House Piccadilly, London

9.00 REGISTRATION

9.30 WELCOME

9.35 **Dr. Robert Crippen, NASA Jet Propulsion Lab**  
Bob Crippen is a world expert in remote sensing of the Earth. He has worked extensively with Shuttle Radar Topography Mission elevation data, combining them with satellite imagery to reveal the story behind landscapes from the San Andreas Fault and Grand Canyon, to Patagonia and the Kamchatka Peninsula. His work is highlighted in NASA's Planetary Photojournal and the US National Geographic Society's Explorers Hall.

10.10 **The use of Elevation Models for flood modelling by the Environment Agency.**

*Neil Webster, Environment Agency*

10.35 **Use of elevation models to predict areas at risk of groundwater flooding.**

*Andrew McKenzie, British Geological Survey*

11.00 COFFEE

11.30 **The accuracy of ASTER DEMs, a Comparison to NEXTMap Britain.**

*Mike Hall, British Geological Survey*

11.55 **The application of NEXTMap Britain Digital Elevation data to geological surveying in well-featured terrains.**

*Stuart Clark, British Geological Survey*

12.20 **The use of NEXTMap for geological surveying in the Vale of York.**

*Mike Hall, British Geological Survey*

12.45 LUNCH

13.45 **Geomorphological mapping of glacial landforms from remotely sensed data: a summary of principal data sources and an assessment of their quality.**

*Jim Rose, Royal Holloway, University of London*

14.10 **The Cookie Cutter: analysing surface morphology in previously glaciated terrain.**

*Mike Smith, Kingston University*

14.35 **Application and testing of digital elevation models to monitor beach-level change, west Cumbria.**

*Paul Fish, Halcrow Group Limited*

15.00 TEA

15.30 **Comparison of several filtering techniques for Digital Elevation Models created from ASTER images.**

*Gaelle Danneels, University of Leige, Belgium*

15.55 **Examples of high-resolution DEM analysis for landslide hazard assessment.**

*Marc-Henri Derron, Geological Survey of Norway*

16.20 **Assessment of sediment delivery from shallow landslides in upland terrain using 3D remote sensing.**

*Nikolaos Galiatsatos, Durham University*

16.45 CLOSING REMARKS

17.00 END

## POSTERS

**Structural mapping using the NEXTMap Britain digital dataset: application to Snowdonia, the Lake District and the Scottish Highlands**

*Linda Austin, Keele University*

**Paramount Peaks and summit level of Scotland determined from DEM data.**

*Tamas Jasko, Quartz Scientific*

**Treating error within high resolution DEMs for landslide prediction in steep upland catchments.**

*David Milledge, et al, Durham University*

**Selecting the appropriate DTM — an example from a hazard mapping exercise.**

*Helen Rutter, et al, British Geological Survey*

**DEMs: UK data sets, copyright and derived products.**

*Mike Smith, Kingston University*

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### Personal Details:

Title: \_\_\_\_\_ First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_  
Position: \_\_\_\_\_  
Division/Department: \_\_\_\_\_  
Company/Organisation: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
Postcode: \_\_\_\_\_ Country: \_\_\_\_\_ Tel: \_\_\_\_\_  
Email: \_\_\_\_\_ Fax: \_\_\_\_\_

### Fees for members (GeolSoc, RSPSoc, GIG and GRSG)

|             |        |          |          |           |           |
|-------------|--------|----------|----------|-----------|-----------|
| Member:     | UK £30 | EURO €55 | USA \$55 | CAN \$80  | AUS \$90  |
| Non Member: | UK £50 | EURO €85 | USA \$85 | CAN \$115 | AUS \$130 |
| Student:    | UK £20 | EURO €30 | USA \$30 | CAN \$45  | AUS \$50  |

\* REGISTRATION TOTAL: \_\_\_\_\_

\* Please return registration form by 10th March 2006.

Late payment or registration on the day will incur the following administration charges:

|             |        |
|-------------|--------|
| Member:     | UK £10 |
| Non Member: | UK £15 |
| Student:    | UK £5  |

TOTAL CHARGES: \_\_\_\_\_

### Payment Information:

Enclosed cheque for £\_\_\_\_\_ payable to: 'Geological Remote Sensing Group'

(Please note only cheques in pounds sterling can be accepted)

Please debit my Visa/Mastercard for £/€/US\$/C\$/A\$ \_\_\_\_\_

(Please note we cannot accept American Express or Diners Club cards)

Card Number: \_\_\_\_\_

Expiry Date (Month/Year): \_\_\_\_ / \_\_\_\_

Card holder NAME and BILLING ADDRESS — PLEASE PRINT CLEARLY.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature: \_\_\_\_\_

### PLEASE RETURN THIS FORM TO:

Claire Fleming, GRSG Treasurer  
British Geological Survey, Kingsley Dunham Centre  
Keyworth, Nottingham, NG12 5GG, United Kingdom

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