

Symposium

ZOOLOGICAL SOCIETY OF LONDON
REGENTS PARK, LONDON, NW1 4RY

ZSL
LET'S WORK
FOR WILDLIFE

29 April 2016

Space - the final frontier for biodiversity monitoring?

Societal, economic and scientific interest in knowing where biodiversity is, how biodiversity is faring and what can be done to mitigate biodiversity loss are at an all-time high. However, biodiversity is a complex, multidimensional concept that has proven hard to track globally. Satellite Remote Sensing has been highlighted as having considerable potential to deliver global monitoring options for capturing and understanding change in biological diversity. For example, satellite remote sensing can provide global coverage that spans multiple decades; inform on the loss of biological diversity at a wide range of scales in a consistent, borderless, repeatable and rapid manner; and support a dynamic approach to environmental and wildlife management.



Although satellite-based variables have long been expected to be key components to a unified and global biodiversity monitoring strategy, how we apply satellite information into existing monitoring frameworks is still being debated.

This symposium will bring together leading experts in biodiversity monitoring and satellite remote sensing to discuss ways to better capitalise on this technology to monitor biological diversity globally. Speakers will also debate the implications for conservation policy and practice.

The event will feature a poster competition. A workshop on scientific writing offered to all attendees and organised by the *Remote Sensing in Ecology and Conservation* editorial team.

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29 APRIL 2016

8.30 REGISTRATION OPENS

9.00 Welcome

Nathalie Pettorelli, Zoological Society of London, UK

SESSION 1: Monitoring biodiversity globally: challenges and opportunities
Chair: Nathalie Pettorelli

9.15 Global biodiversity monitoring: challenges, status, and paths forward

Gary Geller, Group on Earth Observations, & GEO BON, Switzerland

9.45 Monitoring global threats to biodiversity

Lucas Joppa, Microsoft Research, USA

10.15 Citizen science meets satellite remote sensing: opportunities for biodiversity

Doreen Boyd, University of Nottingham

10.45 POSTER SESSION (TEA/COFFEE)

SESSION 2: From theory to applications: satellite remote sensing in the real world
Chair: Duccio Rocchini

11.15 Moving remote sensing towards application

Martin Wegmann, University of Würzburg, Germany

11.45 Mapping and monitoring High Nature Value farmland in the UK using satellite data

Emma Tebbs, King's College London, UK

12.15 New ways of looking at old forests: detecting ecosystem change using
3D measurements and models

Mathias Disney, University College London, UK

12.45 LUNCH

SESSION 3: Unveiling what the future holds for satellite remote sensing and biodiversity monitoring
Chair: Doreen Boyd

14.00 Introducing the concept of Satellite Remote Sensing Essential Biodiversity variables

Nathalie Pettorelli, Zoological Society of London, UK

14.30 Biodiversity from space: pitfalls in measuring community diversity from outside the Earth

Duccio Rocchini, Fondazione Edmund Mach, Italy

15.00 Satellite Remote Sensing & the IUCN Red List of Ecosystems

Emily Nicholson, Deakin University, Australia

15.30 Ocean remote sensing for modelling and monitoring marine biodiversity

Shovonlal Roy, University of Reading

16.00 POSTER SESSION (TEA/COFFEE)

16.30 Scientific writing workshop

17.30 Cash bar and poster prize

REGISTRATION

Space - the final frontier for biodiversity monitoring?

29 April 2016. The Meeting Rooms, Zoological Society of London, Regent's Park (Outer Circle), London NW1 4RY, UK.

Symposium Attendance **Full rate** **Discounted rate** (applicable for ZSL Friends & Fellows¹, students)
£50 £40

Deadline for Registration 22 April 2016

REGISTER ONLINE: <https://www.zsl.org/science/whats-on/space-the-final-frontier-for-biodiversity-monitoring>

To pay by cheque or card, please complete and return this form to: Jennifer Howes, ZSL Scientific Events, Zoological Society of London, Regent's Park, London NW1 4RY, UK; e-mail: jennifer.howes@zsl.org; fax: +44 (0)20 7449 6227.
Please complete one form per delegate.

REGISTRATION

I AM / AM NOT a Fellow or Friend of the Zoological Society of London¹
I AM / AM NOT a registered graduate/undergraduate student²

¹Please provide your ZSL Membership number

²Please provide a supporting statement from your course supervisor or a copy of your student card.

Your details

Title: **First name:** **Surname:**

Name (as you would like it to appear on your badge):

Position: **Organisation:**

E-mail: **Tel:**

Special dietary requirements (please specify, including vegetarian):

Mailing address (billing address should be provided for card payments):

Delegate list: We would like to make a list of delegates available to all attendees. Please indicate here if you **do not** want your information (name, position, organisation, e-mail address) to be included []

PAYMENT DETAILS

Cheque I enclose a cheque for £..... payable to: The Zoological Society of London.
Please note that cheques can only be accepted in Sterling drawn against a UK bank.

Card Please complete all details below and return by fax or by post:

Please debit my Visa / MasterCard (delete as appropriate)

Amount	£.....		
Card Number / /		
Expiry Date /	Card security code
Name on Card		(last three digits printed on or just beneath card signature strip)
Signature of Card Holder		(capital letters please)
			Date

Cancellations must be received in writing by 22 April 2016 and will be refunded less a £15.00 processing charge. Substitutions may be made at any time without charge; please notify Jennifer Howes of any change in attendee details.

LOCATION



The Zoological Society of London's Meeting Rooms are next to the ZSL Main Office, on the Outer Circle, Regent's Park. Cars may be parked in the ZSL London Zoo visitors' car park – please contact Jennifer Howes (details below) to arrange a special parking rate. The nearest public transport is by the 274 bus (to ZSL London Zoo), or by Underground (to Camden Town).

NOTES

Attendance All places must be booked in advance. **Full rate:** £50; discounted rate £40

Meals and refreshments Coffee, tea and a buffet sandwich lunch are included in the ticket price. Please state if you have any special dietary requirements, including vegetarian.

Posters The organisers invite delegates to submit proposals for posters related to the symposium topic. Abstracts of no more than 250 words can be emailed or posted to Jennifer Howes (details below) by 13 April 2016 for consideration by the organisers. Accepted poster presenters will be notified by 18 April 2016.

Booking and enquiries

Please contact: Jennifer Howes, ZSL Scientific Events
Zoological Society of London,
Regent's Park (Outer Circle)
London NW1 4RY, UK.
E: jennifer.howes@zsl.org ; T: +44 (0)20 7449 6227 ; F: +44 (0)20 7449 6411
<http://www.zsl.org/science/whats-on>

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The Zoological Society of London (ZSL) is a charity devoted to the worldwide conservation of animals and their habitats

CALL FOR POSTERS

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Poster Proposal Form

Friday 29 April 2016, the Meeting Rooms, Zoological Society of London, Regent's Park (Outer Circle), London NW1 4RY, UK

There is space for approximately 25 posters at this symposium. Posters will be on display throughout, and attendees will have plenty of time to study posters and interact with speakers and other delegates during tea/coffee breaks (poster area is close to refreshment points). A prize will be awarded to the best poster.

Abstracts of no more than 250 words outlining poster content should be emailed to jennifer.howes@zsl.org

Please note the deadline for submission of poster proposals is 13 April 2016

Those who have submitted successful poster proposals will notified by 18 April 2016 and further guidelines will be sent at that time

Title of poster

Author(s) of poster

Please indicate which author/representative will attend the symposium to present the poster.

Contact e-mail address

Abstract of no more than 250 words outlining poster content

For more information, please contact

Jennifer Howes: Tel: +44 (0)20 7449 6227; Fax: +44 (0)20 7449 6411;

E-mail: jennifer.howes@zsl.org