

---

# Centre for Remote Sensing and Spatial Information Sciences

## Monthly Centre Newsletter #3

**Covers activities for four weeks: August 7 – September 1**

Compiled by: S.Phinn, B.Price, S.Weeks and C.McAlpine

Please send any new contributions to Stuart, Bronwyn or Clive

Past versions kept on the CRSSIS website

### ***TABLE OF CONTENTS:***

- (1) Planned Centre and Group Meetings for the next 4 weeks***
- (2) Related Centre seminars (TEC/SEL, CMS, etc)***
- (3) Academic staff movements/contact details***
- (4) Meeting times***
- (5) Visitors to the centre and affiliated centres***
- (6) Fieldwork and conference movements***
- (7) Any relevant shared resource news***
- (8) Recent publications and awards***
- (9) Upcoming Conferences and Professional Seminars***



---

## **(2) Related Centre seminars (TEC/SEL, CMS, etc)**

### **CRSSIS :**

Biodiversity and conservation of tropical forest fragments: a study of Ghana, West Africa	Thursday August 3 1-2pm	UQ, Room 414 Chamberlain Building	Dr Jenni Hill Lecturer in Biogeography, University of the West of England, Bristol
---	-------------------------	-----------------------------------	---

### **The Ecology Centre/Spatial Ecology Lab :**

To plant or not to plant: hydrological benefits of tropical forestation under scrutiny	11am in on Friday 4 August	UQ St Lucia room 388 Goddard (Building 8)	Dr Sampurno Bruijnzeel Department of Hydrology and Geo-Environmental Sciences Faculty of Earth and Life Sciences Vrije Universiteit, Amsterdam, Netherlands
--	----------------------------	---	--

### **Centre for Marine Studies :**

**All seminar will be held in Building 24 (Social Sciences); room S304**

<b>Date</b>	<b>Time</b>	<b>Speaker</b>	<b>Title</b>
<b>1<sup>st</sup> Aug</b>	<b>12-1 pm</b>	<b>Dr. Marshall Weisler</b> of Social Science Archaeology Program	"The Contribution of Archaeology to UQ-School Marine Science: Examples from some Remote Pacific Islands"
<b>8<sup>th</sup> Aug</b>	<b>12-1 pm</b>	<b>DR. Aldo Shemesh</b> Department of Env Sciences The Weizmann Inst of Science	"The isotope records of corals under high nutrient loads from the Gulf of aquaba (Red Sea)"
<b>15<sup>th</sup> Aug</b>	<b>12-1 pm</b>	<b>Dr. Norm Duke</b> UQ-CMS	"Rainfall as a primary driver of ecosystem state change in forested tidal wetlands"
<b>22<sup>th</sup> Aug</b>	<b>No Seminar</b>		
<b>29<sup>th</sup> Aug</b>	<b>12-1 pm</b>	<b>DR. Oded Yarden</b> Dept. Plant Pathology and Microbiology The Hebrew University of Jerusalem	<b>TBA</b>
<b>5<sup>th</sup> Sept</b>	<b>12-1 pm</b>	<b>DR. Mark Davies</b> UQ-CMS	<b>TBA</b>
<b>12<sup>th</sup> Sept</b>	<b>12-1 pm</b>	<b>Dr. Andrew Barnes</b> UQ-CMS	"The blue revolution"
<b>19th Sept</b>	<b>12-1 pm</b>	<b>Dr. Jane Hughes</b> School of Env Studies Griffith University	"How can population genetics contribute to the conservation and management of freshwater ecosystems?"

---

**26<sup>th</sup> Sept**

**No seminar**

**3<sup>rd</sup> Oct**

**12-1 pm**

**Dr Guillermo Diaz-Pulido  
UQ-CMS**

**TBA**

***Others :***

---

### ***(3) Academic staff movements/contact details***

**Stuart Phinn**

On campus each day except Thursdays

**Clive McAlpine**

On Campus most days over the next 3 months

**David Pullar**

**Pramod Sharma**

**Gerd Dowideit**

**Chris Roelfsema**

Away dates:

August – December: Fiji on PhD/Project work

**Bronwyn Price**

Away dates:

August 28 – Sept 1: ESA conference, Wellington, NZ

**Scarla Weeks**

---

#### ***(4) Student Meeting times***

***Stuart Phinn – please contact me to schedule a time***

Clive McAlpine

*Available most days – contact for time*

---

## ***(5) Visitors to the centre and affiliated centres***

### ***Spatial Ecology Lab***

Sam Nicol – 7 August

Dr Kerry Landman - August

### ***CRSSIS***

15/8/06: Donna Lewis (NT Primary Industries) visiting S.Phinn to set up MPhil for savanna mapping.

8/10/06 – 12/10/06: Dr Serge Andrefouet (IRD, Noumea) visiting S.Phinn and J.Scopelitis for PhD supervision meetings

---

## **(6) Fieldwork and Conference movements**

### **Fieldwork**

Michiala Bowen, field work doing bird surveys July to September

Nick Webb and Ton Gill will be in the field from August 25 to September 25, travelling to Charleville, Quilpie, Thargomindah, Longreach, and Ethabuka reserve in the Simpson's desert.

Nick will be collecting dust trap samples and downloading weather station data. Tony will be taking vegetation and soil spectra and measuring vegetation cover for his own work and to support a HyMap data acquisition for weeds mapping.

Ian Leiper to Lizard Island in September with Dr Lexa Grutter's field team.

Chris Roelfsema on fieldwork in Fiji (Viti Levu) July through January

### **Conferences**

The Ecological Society of Australia and the New Zealand Ecological Society – Wellington August 28 - Sept. 1

Bronwyn is presenting

13<sup>th</sup> Australasian Remote Sensing Conference in Canberra, Nov 20-24

Dr's Dekker and Brando are organising sessions for coastal remote sensing

Stuart is giving a keynote talk on coastal remote sensing

Tony and Kasper will be talking on their work

Michael Hewson will be attending

---

## **(7) Any relevant shared resource news**

### **Hardware**

None

New precision GPS unit is operational (sub-10cm) see Jurgen for use and the manual on the documentation for its use is on the CRSSIS internal site.

Talk to Stuart about experiences in using it in the field.

### **Software**

Erdas Imagine 9.0 can be installed

Flaash atmospheric correction module is now active in our ENVI licences

Ecognition/Definiens is now a floating licence –see Jurgen for installation

### **Website**

#### **CHECK OUT THE NEW ON-LINE TOOLKITS:**

<http://www.gpa.uq.edu.au/CRSSIS/tools/>

ArcGIS Tool: Land Use Data Miner (LUDM)

Coastal Remote Sensing Toolkit

#### **Please update your personal and project details at**

<http://www.gpa.uq.edu.au/CRSSIS/> CRSSIS internal

#### **Manuals on CRSSIS website** (<http://www.gpa.uq.edu.au/CRSSIS/publications/>)

Updated field spectrometry manual

Updated benthic photo survey manual

Updated UW-spec manual

Thales kinematic GPS unit

Image processing log example file

#### **PDF library updates**

See Atlas2\Crassis\Draft PDF Library for CRSSIS use

#### **Endnote Library updates**

See Atlas2\Crassis\Endnote Libraries for CRSSIS notes

#### **Publications database**

See for listing of all Tier 1 journals and publication experiences

Atlas2\Crassis\Documentation\CRSSIS\_Journal\_Evaluations

#### **BRG Metadata**

Quickbird images for Palau from March 2006

Atlas2\Crassis\metadata\ BRG\_Data\_ Inventory.xls

#### **HIGH PERFORMANCE COMPUTING File Store & Processing**

Users guide has been placed on the CRSSIS website - See Tony Gill if you have any questions!

#### **Directory and File-Name Conventions**

To be placed in CRSSIS on-line documentation by 14-08-06

---

## **(8) Recent publications and awards**

- Apan, A., Kelly, R., **Phinn, S.**, Strong, W., Lester, D., Butler, D., **Robson, A.**, 2006. Predicting Grain Protein Content in Wheat Using Hyperspectral Sensing of In-season Crop Canopies and Partial Least Squares Regression, *International Journal of Geoinformatics*, 2(1), 93-108.
- Etter, A., C. **McAlpine**, D. **Pullar**, and H. P. Possingham. 2006. Modelling the conversion of Colombian lowland ecosystems since 1940: Drivers, patterns and rates. *Journal of Environmental Management* **79**:74-87.
- Garden, J.**, C. **McAlpine**, H. P. Possingham, and D. Jones. in press. Habitat Structure is more Important than Vegetation Composition for Local-Level Management of Native Terrestrial Reptile and Small Mammal Species Living in Urban Remnants: A Case study from Brisbane, Australia. *Austral Ecology*.
- Johansen, K.**, and **S.R Phinn**. 2006. Linking riparian vegetation spatial structure in Australian tropical savannas to ecosystem health indicators: semi-variogram analysis of high spatial resolution satellite imagery. *Canadian Journal of Remote Sensing* **32**:228-243.
- McAlpine, C.**, M. **Bowen**, J. Callaghan, D. Lunney, J. Rhodes, D. Mitchell, D. **Pullar**, and H. P. Possingham. in press. Testing alternative models for the conservation of koalas in fragmented rural-urban landscapes. *Austral Ecology*.
- McAlpine, C.**, S. Heyenga, B. Taylor, A. Peterson, and G. McDonald. in press. Regional Planning in Queensland's Rangelands: Challenges and Prospects for Biodiversity Conservation. *Geographical Research*.
- McAlpine, C. A.**, S. R. **Phinn**, A. R. Pople, N. Menke, and B. **Price**. 2006. Developing a landscape approach to conserving arid zone fauna: challenges and opportunities. Pages [accepted] *in* C. Dickman and D. Lunney, editors. *Wildlife in the Arid Zone*. Royal Zoological Society of New South Wales, Mosman.
- McAlpine, C. A.**, J. R. Rhodes, J. Callaghan, M. **Bowen**, D. Lunney, D. Mitchell, D. **Pullar**, and H. P. Possingham. in press. The importance of forest area and configuration relative to local habitat factors for conserving forest mammals: A case study of koalas in Queensland, Australia. *Biological Conservation*.
- Phinn, S.**, Ticehurst, C., Held, A., **Scarth, P.**, **Nightingale, J.** and **Johansen, K.** 2006. New Tools for Monitoring World Heritage Values. In N. Stork and S. Turton (eds), *The Wet Tropics Rainforests of Australia*, Blackwell. In Press.
- Rhodes, J., A. J. Tyre, N. Jonzen, C. **McAlpine**, and H. P. Possingham. 2006. Optimizing presence-absence surveys for detecting population trends. *Journal of Wildlife Management* **70**:8-18.
- Seabrook, L. M.**, C. **McAlpine**, and R. J. Fensham. in press. Spatial and temporal analysis of vegetation change in an agricultural landscape: a case study of two brigalow landscapes in Queensland, Australia. *Agriculture, Ecosystems & Environment*.
- Seabrook, L. M.**, C. A. **McAlpine**, and R. J. Fensham. in press. Cattle, crops and clearing: regional drivers of landscape change in the Brigalow Belt, Queensland Australia, 1840-2004. *Landscape and Urban Planning*.
- Ticehurst, C., **Phinn, S.R.** and Held, A. 2006 Using Multi-Temporal Digital Elevation Model Data for Detecting Canopy Gaps in Tropical Forests Due to Cyclone Damage: An Initial Assessment. *Austral Ecology*, In Press.

## (9) Upcoming conferences and professional activities

CONFERENCES			
Conference Name	Date	Location	Website
International Agricultural Economists conference	12-18 Aug 2006	Gold Coast	<a href="http://www.iaae-agecon.org/AusConf/index.html">http://www.iaae-agecon.org/AusConf/index.html</a>
ACoralReefS (ACRS) Conference	18 – 21 Aug 2006	Mission Beach	<a href="http://www.australiancoralreefsociety.org/2006_conference.htm">http://www.australiancoralreefsociety.org/2006_conference.htm</a>
Sustainable Economic Growth for Regional Australia national conference	28-30 August 2006	Launceston, Tasmania	<a href="http://www.segra.com.au/segra/index.html">http://www.segra.com.au/segra/index.html</a>
QANZIAM (Queensland Applied Mathematics) meeting	9-10 September	Stanthorpe, Queensland	<a href="http://www.cit.gu.edu.au/~s2186692/Qanziam_Conference_2006.html">http://www.cit.gu.edu.au/~s2186692/Qanziam_Conference_2006.html</a>
Combined 5 <sup>th</sup> Trans Tasman Surveyors Conference and 2 <sup>nd</sup> Queensland Spatial Industry Conference	19– 23 Sept 2006	Cairns	<a href="http://www.icms.com.au/cairnsspatial2006">www.icms.com.au/cairnsspatial2006</a>
True Grit: Managing the Integrity of Fraser Island and the Greater Sandy World Heritage Area	28-29 September 2006	University of the Sunshine Coast, Sippy Downs (Buderim)	<a href="http://www.fido.org.au/truegrit/">http://www.fido.org.au/truegrit/</a>
Coral Reef Ecosystems Biodiversity Forum	30 October – 4 November 2006	Noumea, New Caledonia	<a href="http://www.ird.nc/biodec/">http://www.ird.nc/biodec/</a>
The 13 <sup>th</sup> Australasian Remote Sensing & Photogrammetry Conference (ARSPC)	20-24 November 2006	Canberra	<a href="http://www.arspc.org/">http://www.arspc.org/</a>
Planning for Urban Wildlife	TBA (around Nov-Dec, 2006)	Brisbane	<a href="http://urbac.wildlife.org.au">http://urbac.wildlife.org.au</a> (stay tuned for further details)
Australasian Ornithological Conference	2 -5 December 2006	Perth	<a href="http://www.birdswa.com.au/aoc2007/">http://www.birdswa.com.au/aoc2007/</a>
The 2nd WSEAS International Conference on REMOTE SENSING	16-18 December 2006	Tenerife, Canary Islands, Spain	<a href="http://wseas.org/conferences/2006/tenerife/remotesensing/index.html">http://wseas.org/conferences/2006/tenerife/remotesensing/index.html</a>
Urban Remote Sensing 2007	11-13 April 2007	Paris, France	<a href="http://tlc.unipv.it/urban-remote-sensing-2007/index.html">http://tlc.unipv.it/urban-remote-sensing-2007/index.html</a>
ASPRS 2007 Identifying Geospatial Solutions	7-11 May 2007	Tampa, Florida, USA	<a href="http://www.asprs.org/tampa2007/">http://www.asprs.org/tampa2007/</a>
32nd International Symposium on Remote Sensing of Environment	25-29 June 2007	San Jose, Costa Rica	<a href="http://www.symposia.org/">http://www.symposia.org/</a>
Society of Conservation Biology annual meeting	1-5 July 2007	Port Elizabeth, South Africa	<a href="http://www.conbio.org/Activities/Meetings/">http://www.conbio.org/Activities/Meetings/</a>
IALE World Congress	8-12 July 2007 * <i>abstract submission closes 1<sup>st</sup> September 2006</i>	Wageningen, Netherlands	<a href="http://iale2007.com/">http://iale2007.com/</a>
MEDECOS XI	2-5 September	Perth, Western	<a href="http://www.medecosxi2007.com.au">http://www.medecosxi2007.com.au</a>

---

(Mediterranean Ecosystems)	2007	Australia	
<b>SEMINARS</b>			
<b>Title</b>	<b>Date and time</b>	<b>Place</b>	<b>Speaker/notes</b>
International Sustainability Symposium: Living beyond our means?	Wed 9 August 08.45-12.30	QUT Gardens Point Campus B117	Prof. P. Matson, Prof. P Vitousek, Prof T. Reeves, Dr. P. Pingali, Prof. S. Gage Free but reservation required <a href="http://www.isr.qut.edu.au/">http://www.isr.qut.edu.au/</a>
International Sustainability Luncheon Forum: Developing a Blueprint for Sustainability	Thurs 10 August 12.00-2.30pm	QUT Gardens Point Campus Gardens Theatre Foyer, X Block	\$80 <a href="http://www.isr.qut.edu.au/">http://www.isr.qut.edu.au/</a>
Debate on the Nuclear Future of Australia	Friday August 11 6.30pm to 7.30pm	Queensland Museum South Bank - Theatre Level 2	Free – limited seating
Queensland Biodiversity Forum	21 August 2006  *registration by August 15	Brisbane Convention and Exhibition Centre	<a href="http://www.landcare.org.au/queensland_biodiversity_forum_draft_flier.doc">www.landcare.org.au/queensland_biodiversity_forum_draft_flier.doc</a>

