Satellite Meteorology Training in WMO RA V during 2021/2022:
The Australian VLab Centre of Excellence experience

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Topics to be presented

• Celebrating 9 Years of Regional Focus Group (RFG) meetings
• Statistics of the past year of RFG meetings
• Contributions by attendees
  o Individual presentations
  o Cooperative case studies
  o Multiple "mini case studies" within one meeting
• Celebrating the 100th Australian VLab CoE RFG meeting
• Archive of recordings of the RFG meetings
First Regional Focus Group meeting October 2013

HAPPY BIRTHDAY

9th

3402+ attendees, 104 sessions

105th meeting during the AOMSUC-12 Training Event
Total number of remote stakeholders attending the 11 sessions = 468+
Average number of participants per session = 39+
Highlights of the VLab Sessions of 2021 / 2022:
A constellation of presenters from across the region

- **March 2022**: Mr Joe Courtney
- **April 2022**: Mr Di Xian
- **October 2021**: Mr Gao Hao
- **August 2022**: Mr Scott Lindstrom
- **September 2022**: Mr Rion Salman
Cooperative Case Study 1:
Significant Swell event,
Pacific Ocean 11-17th July 2022, as monitored by satellite and surface observations and NWP model data

Mauna Eria,
Chris Webster

Miriam Kataunati
Jennifer Strahl, Dr Eric Lau,
Tristan Oakley, Dr Alison Nugent

...also Chip Young,
Prof. Steven Businger,
Ning Li.

Professor Yi-Leng Chen
Cooperative Case Study 2: The eruption of Hunga Tonga-Hunga Ha'apai volcano, 15th January 2022

1: Introduction

2: The shock wave of the eruption

3: Spreading out of the ash/SO2 from the eruption

4: The height of the eruption

5: Marine conditions around the eruption
Multiple "mini case studies" within one meeting:

Meteorological highlights of the year 2021

RFG meeting December 2021. Format recommended by Jordan Gerth (NOAA / USA)
Multiple "mini case studies" within one meeting:

Meteorological highlights of the year 2021

RFG meeting January 2022. Format recommended by Jordan Gerth (NOAA / USA)

- Beijing Sand Storm
- Mega Squall Line
- Peninsular Malaysia
- Ambon Island flooding
- Rion Salman, Indonesia
- Songhan Wong, Singapore
- Taro Handa, Japan
- Fukutoku Okanoba Eruption
- Typhoon Rai flooding, Philippines
- Manam Eruption
- Convective Development, central USA
- Scott Lindstrom, USA
- Typhoon Rai flooding, Philippines
- Taro Handa, Japan
- Fukutoku Okanoba Eruption
- Convective Development, central USA
- Scott Lindstrom, USA
1: **Animation: Eruption of the underwater volcano of Fukutoku-Okanobu.** True Colour RGB/Infrared imagery 21UTC 13th to 06UTC 15th August 2021. Example provided by Tara Handa, Japan Meteorological Agency.

2: **The eruption of Manam Volcano, Papua New Guinea.** True Colour RGB imagery 21UTC 19th to 04UTC 20th October 2021. Example provided by Scott Lindstrom, SSEC University of Wisconsin Madison.

3: **Beijing Sandstorm**

0330UTC 15th March 2021
True Colour RGB image (top)
Dust RGB image (bottom)
Example provided by Scott Lindstrom, SSEC University of Wisconsin Madison

Scott's comments: "An interesting story about the weather that might happen during 2022 Winter Olympics."

4: **Band 13/LI with convection, central USA.**

True Colour RGB imagery 21UTC 19th to 04UTC 20th October 2021. Example provided by Scott Lindstrom, SSEC University of Wisconsin Madison.

I like this one because it shows the power in blending a level 2 product (clear sky) with Band 13 (where it's cloudy) when convection is developing.

5: **Animation: Mega Squall Line over Peninsular Malaysia**

Example provided by Songhan Wong, NLA Singapore

6: **Animation: Ambon Island flooding**

Himawari-8 Enhanced Infrared (Band 13), 05UTC to 16UTC 11th July 2021. Example provided by Ron Salmon, BMKG Indonesia.

- <40 (Top of cloud temperature) indicating Cumulonimbus Cloud
- Heavy rainfall with resultant flooding and landslides

7: **Philippine flooding**

17th December 2021. NOAA Global Flood Product

Example provided by William Straka, SSEC University of Wisconsin/Madison USA.

...there is some flooding going on still after Haiyan hit the islands in the Philippines.

Mainly the marshlands and farmlands, but there is some in Butuan City.
Jeff Wilson  
Dr Mick Pope  
Roger Deslandes  
Dr Bernie Connell  
Jennifer Strahl  
Chris Webster  
Dr Jordan Gerth  
Kunimatsu Hiroshi  
Dr Hyesook Park  
Silipa Mulitalo and Samoan Colleagues  
Roro Purwanti
Recordings of our Regional Focus Group Discussions


Regional Focus Group Meeting Event Recordings

Recordings of Australian VLab Centre of Excellence Regional Focus Group Events are given below. Locations with limited internet speed may wish to download the file before playing it (right mouse click on the link, then “Save Target As”).

Content of the Regional Focus Group Meeting Events and Recordings

The next Regional Focus Group meeting will be conducted during the 12th Asia Oceania Meteorological Satellite User Conference (AOMSUC-12) Training Event on the 14 November 2022

Further information will be provided closer to time.

More information about AOMSUC-12 is provided HERE and also in the third presentation of the Regional Focus Group meeting 104 given below.

27th October 2022 Regional Focus Group meeting (104)

The topics of discussion are as follows:

- Celebrating 9 years of the Australian VLab Centre of Excellence Regional Focus Group meetings. Session facilitated by Mr Bodo Zeschke, Australian Bureau of Meteorology Training Centre. 14 minutes duration (52Mb .mp4)
- Highlights of the Advancing Earth Observation Forum, Brisbane, August 2022. Session facilitated by Mr Bodo Zeschke, Australian Bureau of Meteorology Training Centre. 28 minutes duration (90Mb .mp4)
- An update to the 12th Asia Oceania Meteorological Satellite User Conference Training Event. Session facilitated by Bodo Zeschke, Australian Bureau of Meteorology Training Centre with a contribution by Mr Takuya Sakashita, Japan Meteorological Agency. 6 minutes duration (18Mb .mp4)
Summary

• Celebrating 9 Years of Regional Focus Group (RFG) meetings
• Have shown the statistics of the past year of RFG meetings
• Have summarised the contributions by attendees, including
  o Individual presentations
  o Cooperative case studies
  o Multiple "mini case studies" within one meeting
• Celebrating the 100th Australian VLab CoE RFG meeting
• Advertised the archive of recordings of the RFG meetings