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The Bureau  
of Meteorology

AOMSUC-13

3 - 10 November 2023  
Busan, Korea

Hosted by Korea Meteorological Administration

13th Asia-Oceania Meteorological Satellite Users' Conference



# Satellite Meteorology Training in WMO RA V during 2022/2023: The Australian VLab Centre of Excellence experience



Mr Bodo Zeschke

Teacher, Australian Bureau of Meteorology Training Centre  
Point of Contact, Australian VLab Centre of Excellence

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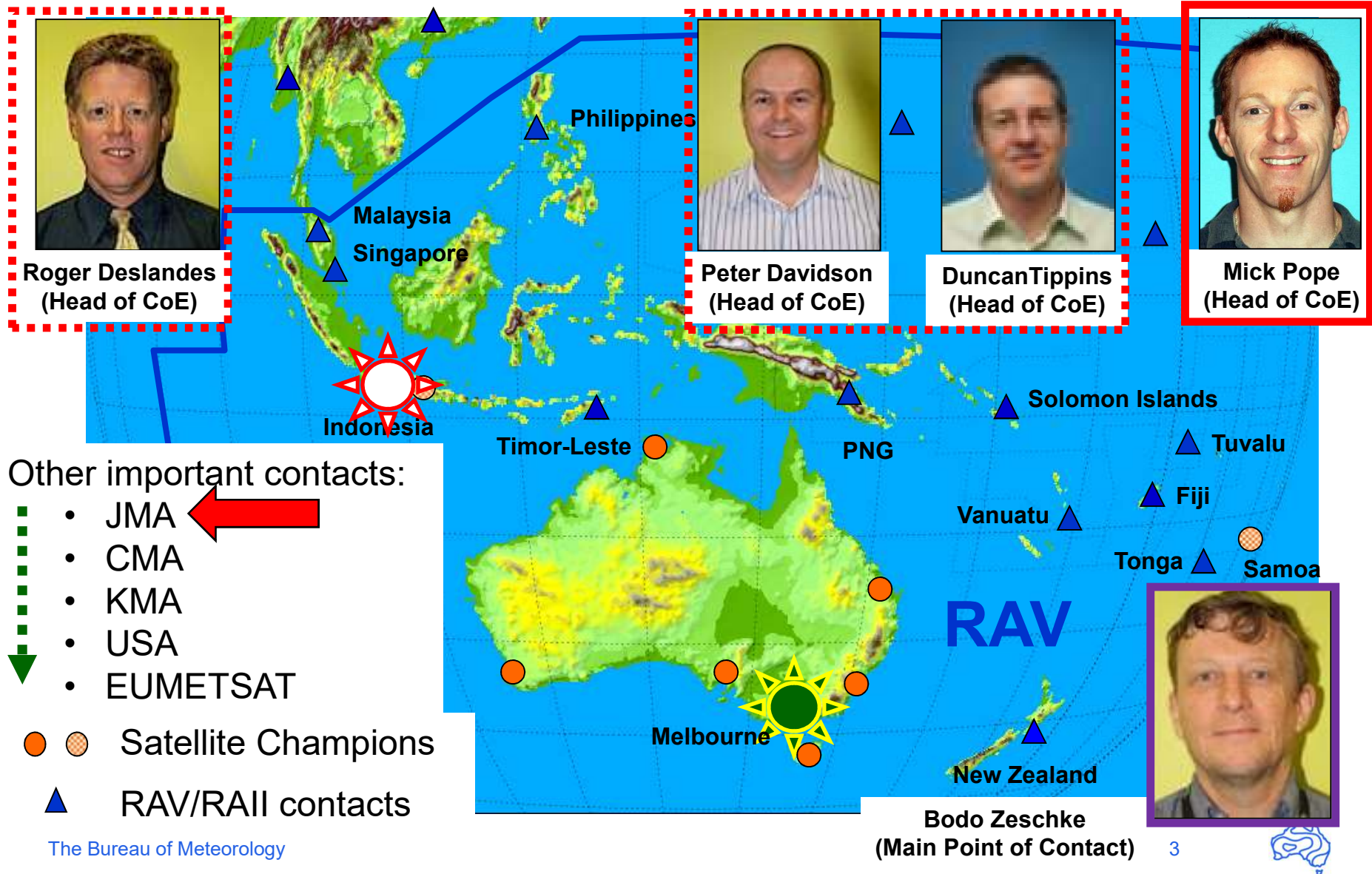


## Topics to be presented

- Brief overview of the Australian VLab Centre of Excellence
- 10 Years of Regional Focus Group (RFG) meetings
- The past year of Regional Focus Group meetings
- Contributions by colleagues
  - Individual presentations
  - Cooperative case studies
  - Multiple "mini case studies" within one meeting
- Archive of recordings of the RFG meetings

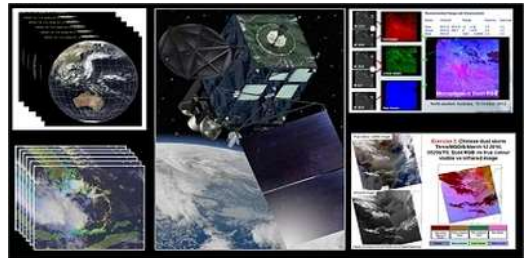
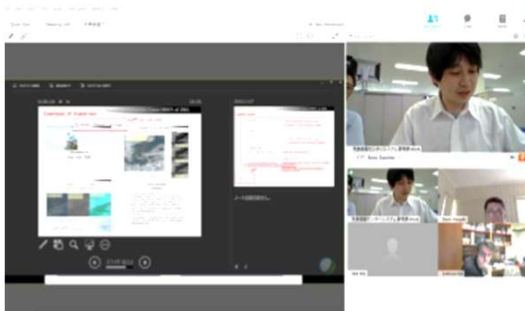
# The Australian VLab Centre of Excellence and contacts

2013 to 2023

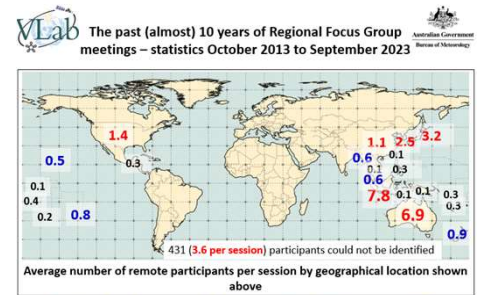




# First Regional Focus Group meeting October 2013



**HAPPY BIRTHDAY**  
**10th**



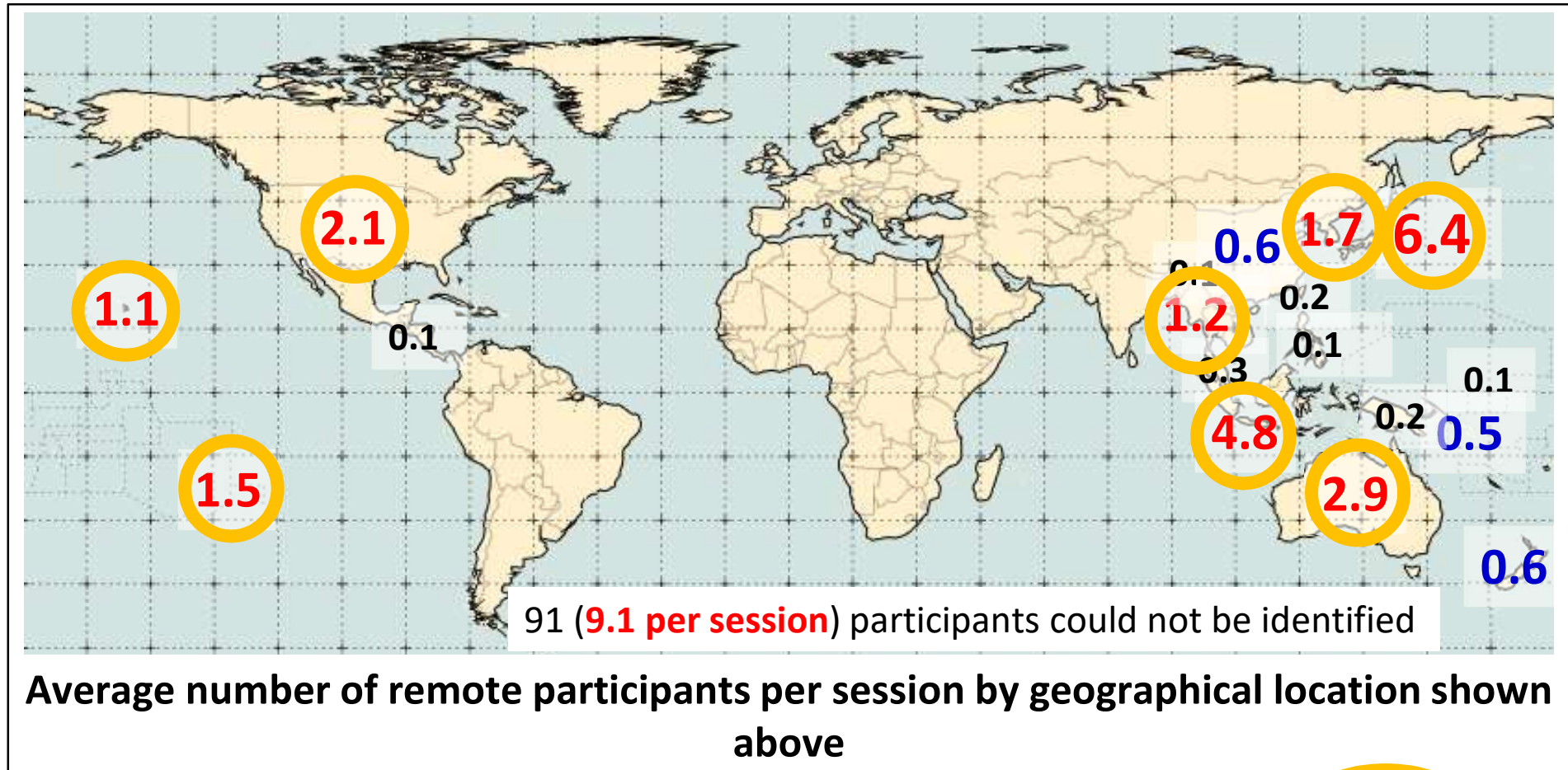
**3738+ attendees, 114 sessions**



**.... 114 meetings on a near monthly basis**



## The past year of Regional Focus Group meetings – statistics November 2022 to November 2023



Total number of remote stakeholders attending the 10 sessions = 336+

Average number of participants per session = 33+





# Highlights of the VLab Sessions since AOMSUC-12: A constellation of presenters from across the region (part 1)

Indonesia WMO Regional Training Center

**Introducing  
The Indonesia  
VLab Center of Excellence**

Roro Y. Purwanti and Anni Arumsari Fitriany

26 September 2023

**RFG**

Ms Roro Purwanti, Ms Anni Fitriany

September 2023



**Early Warning System**  
for  
**Land and Forest Fires in  
Indonesia**

TEGUH SETYAWAN  
BMKG INDONESIA

Mr Teguh Setyawan

September 2023



**The 13<sup>th</sup> Asia-Oceania  
Meteorological Satellite User's  
Conference**

The AOMSUC-13, hosted by the NMSC of the KMA, will be held from 3 to 10 November 2023 in Jincheon and Busan, Republic of Korea.

국가기상위성센터  
National Meteorological Satellite Center

Mr Kwangmyung Song

June, September 2023



**Impact of the flooding**  
at  
13°36'36.3\"S 172°12'05.3\"W

Image courtesy Samoa Meteorological Service

Mr Silipa Mulitalo

August 2023



# Highlights of the VLab Sessions since AOMSUC-12: A constellation of presenters from across the region (part 2)



**SLIDER**  
(Satellite Loop Interactive Data Explorer in Realtime)  
A Website for Displaying Geostationary and Polar-orbiting satellite data

Curtis Seaman  
Kevin Micke  
Zayd Amundson  
Dan Lindsey  
Yoo-Jeong Noh  
Natalie Tourville  
Jack Dostalek  
Don Hillger  
Galina Chirokova  
Steve Finley  
Jason Apke  
Steve Miller

CIRA/colorado State University & \*NOAA/NESDIS/STAR  
Bureau of Meteorology VLab Center (2023)



**Dr Curtis Seaman**  
**August 2023**



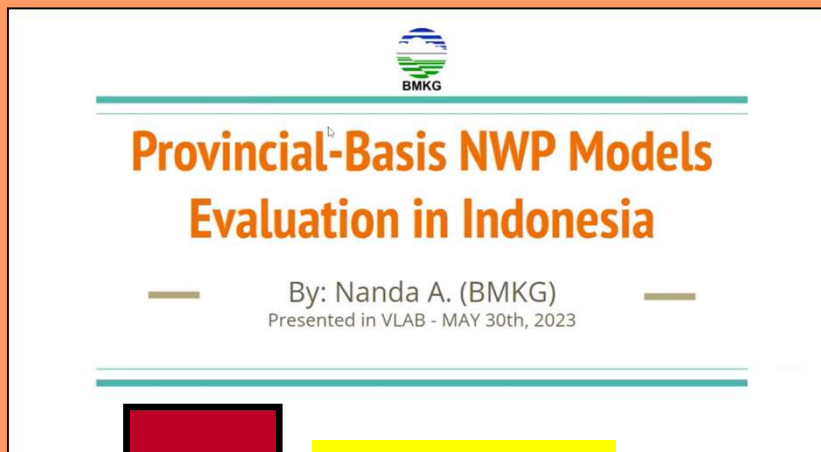
2023 Joint Australia-Indonesia-Korea Vlab Centers of Excellence Regional Focus Group Meeting

Summary of the 2023 Local Training Course on capacity building for the GK-2A satellite data receiving and analysis system for Forecasting and Warning of Natural Disaster in Cambodia

Jinho SHIN, Kwangmyoung SONG  
NMSC KMA  
30 May, 2023



**Dr Jinho Shin**  
**May 2023**

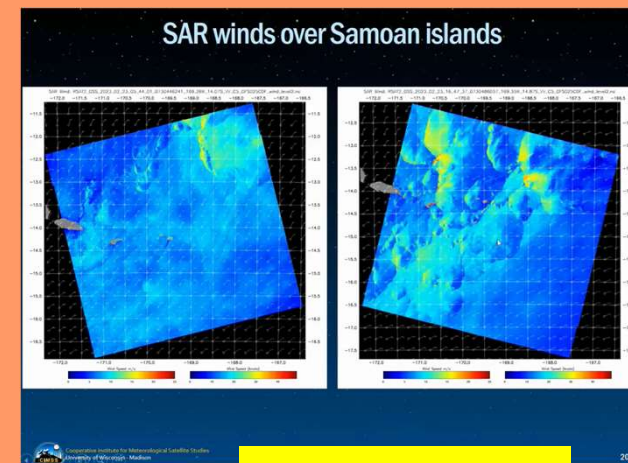


**Provincial-Basis NWP Models Evaluation in Indonesia**

By: Nanda A. (BMKG)  
Presented in VLAB - MAY 30th, 2023



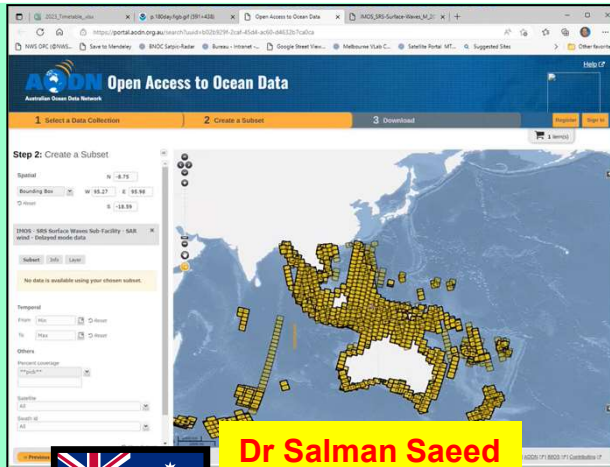
**Mr Nanda Alfuadi**  
**May 2023**



**Dr Scott Lindstrom**  
**March 2023**



# Highlights of the VLab Sessions since AOMSUC-12: A constellation of presenters from across the region (part 3)



**Dr Salman Saeed**  
**March 2023**



**Dr Jinho Shin**  
**January 2023**

**Flooding in Auckland New Zealand**  
information provided by Chris Webster and Neal Osborne Met Service New Zealand

ECMWF 24 hour forecast for 12UTC 27th January 2023  
Auckland RADAR compared to Himawari-8 satellite data  
NWP data  
MSLP analysis  
RADAR and Satellite data  
surface and upper air observations  
web links



**Mr Chris Webster, Dr Scott Lindstrom**  
**February 2023**

**Flooding in Auckland New Zealand**  
Additional information from the CIMSS Satellite Blog  
<https://cimss.ssec.wisc.edu/satellite-blog/archives/50063>

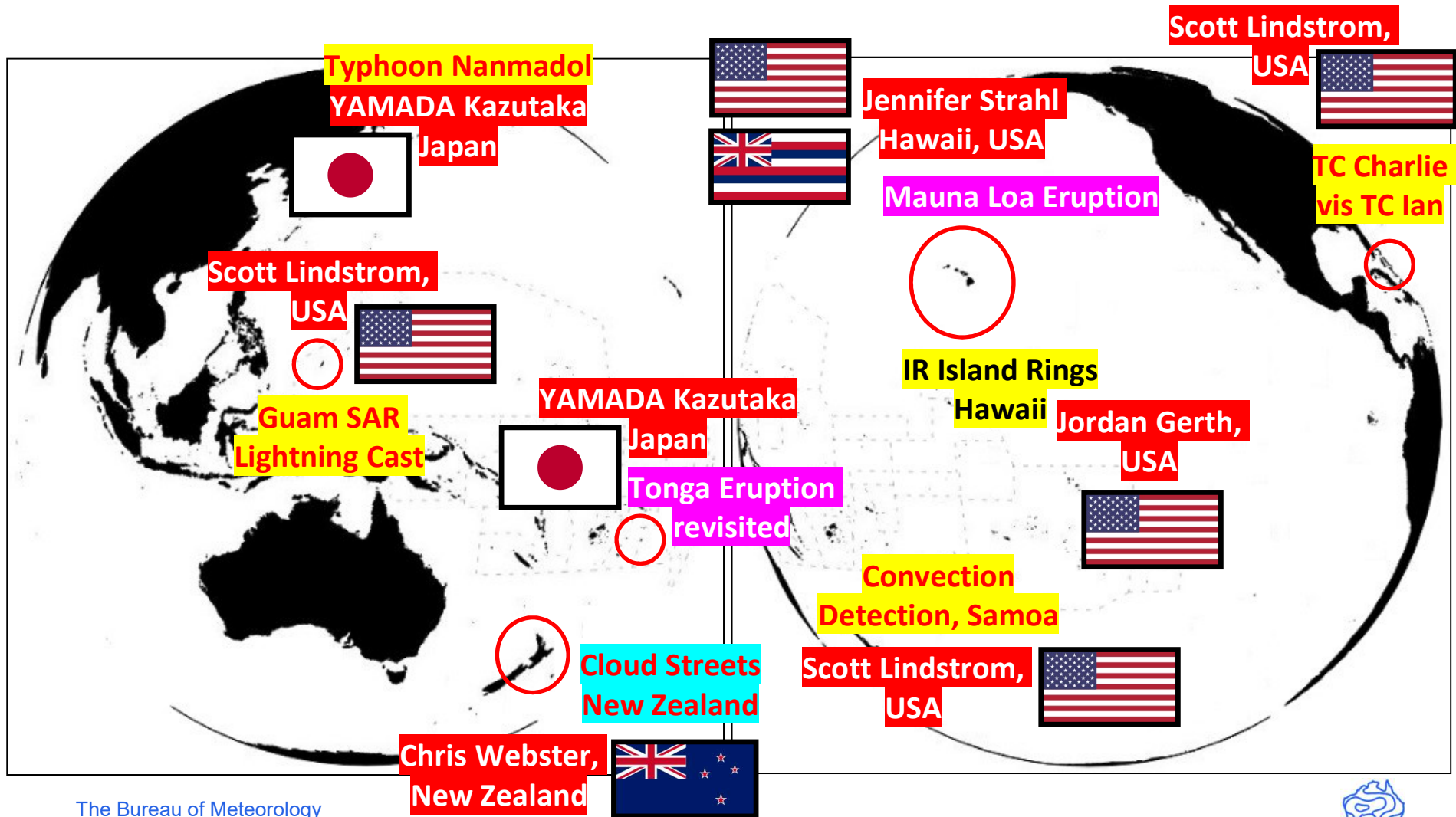
Near Precipitation Radar  
The NCEP Operational TPW anomaly over SOUTH-PACIFIC  
MIMIC TPW  
OSPO TPW Anomaly  
JAXA Rain Totals from satellite  
CMORPH 24 hour rainfall





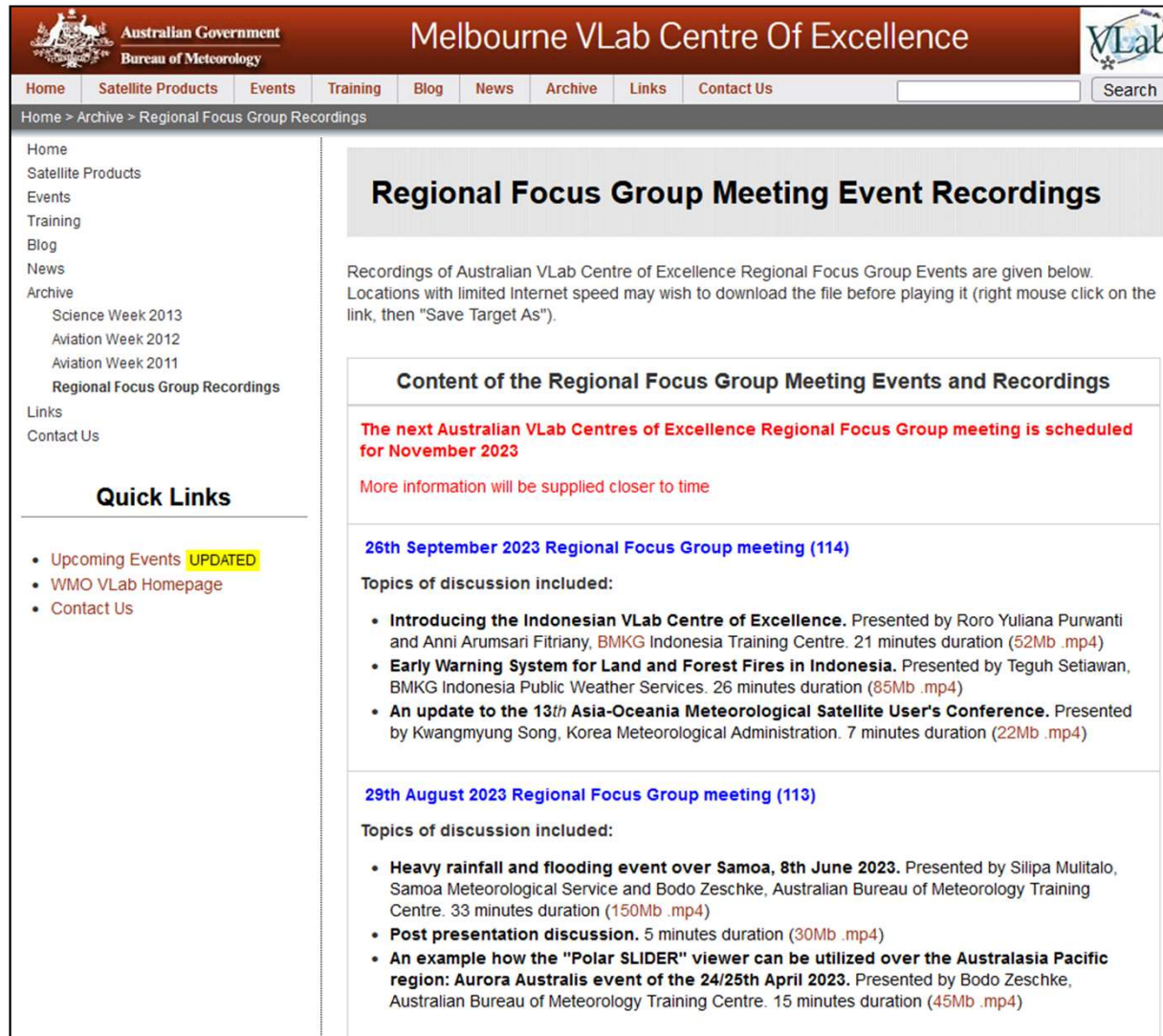
# Multiple "mini case studies" within one meeting: Meteorological highlights of the year 2022

RFG meeting December 2022: Format recommended by Jordan Gerth (NOAA / USA)



# Recordings of our Regional Focus Group Discussions

<http://www.virtuallab.bom.gov.au/archive/regional-focus-group-recordings/>



The screenshot displays the website for the Melbourne VLab Centre Of Excellence, part of the Australian Government Bureau of Meteorology. The page is titled "Regional Focus Group Meeting Event Recordings" and provides information about upcoming and past events. The left sidebar contains navigation links such as Home, Satellite Products, Events, Training, Blog, News, Archive, Links, and Contact Us. The main content area features a section for "Content of the Regional Focus Group Meeting Events and Recordings" with a red announcement for a meeting in November 2023. Below this, two past meetings are listed with their dates and topics of discussion, including presentations on Indonesian VLab centres, early warning systems for land and forest fires, and heavy rainfall events in Samoa.

**Australian Government**  
**Bureau of Meteorology**

**Melbourne VLab Centre Of Excellence**

Home | Satellite Products | Events | Training | Blog | News | Archive | Links | Contact Us

Home > Archive > Regional Focus Group Recordings

## 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 Australian VLab Centres of Excellence Regional Focus Group meeting is scheduled for November 2023**

More information will be supplied closer to time

**26th September 2023 Regional Focus Group meeting (114)**

Topics of discussion included:

- **Introducing the Indonesian VLab Centre of Excellence.** Presented by Roro Yuliana Purwanti and Anni Arumsari Fitriany, BMKG Indonesia Training Centre. 21 minutes duration (52Mb .mp4)
- **Early Warning System for Land and Forest Fires in Indonesia.** Presented by Teguh Setiawan, BMKG Indonesia Public Weather Services. 26 minutes duration (85Mb .mp4)
- **An update to the 13th Asia-Oceania Meteorological Satellite User's Conference.** Presented by Kwangmyung Song, Korea Meteorological Administration. 7 minutes duration (22Mb .mp4)

**29th August 2023 Regional Focus Group meeting (113)**

Topics of discussion included:

- **Heavy rainfall and flooding event over Samoa, 8th June 2023.** Presented by Silipa Mulitalo, Samoa Meteorological Service and Bodo Zeschke, Australian Bureau of Meteorology Training Centre. 33 minutes duration (150Mb .mp4)
- **Post presentation discussion.** 5 minutes duration (30Mb .mp4)
- **An example how the "Polar SLIDER" viewer can be utilized over the Australasia Pacific region: Aurora Australis event of the 24/25th April 2023.** Presented by Bodo Zeschke, Australian Bureau of Meteorology Training Centre. 15 minutes duration (45Mb .mp4)



# Making the Regional Focus Group archive more accessible

<http://www.virtuallab.bom.gov.au/archive/regional-focus-group-recordings/>

The screenshot shows the website header with the Australian Government Bureau of Meteorology logo and the VLab logo. The main navigation menu includes Home, Satellite Products, Events, Training, Blog, News, Archive, Links, and Contact Us. The breadcrumb trail is Home > Archive > Regional Focus Group Recordings. The page title is "Regional Focus Group Meeting Event Recordings". Below the title, there is a paragraph of text: "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')." Below this is a section titled "Content of the Regional Focus Group Meeting Events and Recordings" with a red announcement: "The next Australian VLab Centres of Excellence Regional Focus Group meeting is scheduled for November 2023" and "More information will be supplied closer to time". A link for "26th September 2023 Regional Focus Group meeting (114)" is visible.

Scroll down to the bottom of the page to see all the 114 RFG meeting content



This red-bordered box highlights the content area for the "8 October 2013 Regional Focus Group meeting (1)". It contains the following text:

**First Australian VLab Centre of Excellence Regional Focus Group meeting**

8th October 2013 (72 MB PPT file)

**8 October 2013 Regional Focus Group meeting (1)**

- A short overview of the Regional Training Workshop on Preparation for Advanced Meteorological Imagers
- A Weather and Forecast Discussion, also showcasing the MTSAT-1R 10 minute rapid scan data and the MODIS generated RGB composites

**AOMSUC-12**

Click on this "AOMSUC-12" link

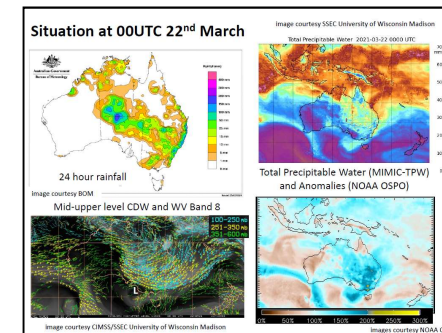




# Making the Regional Focus Group archive more accessible

<http://www.virtuallab.bom.gov.au/archive/regional-focus-group-recordings/>

Useful AOMSUC-12 RFG meeting resources		
AOMSUC-12 Training Event Pre-Survey Topics of Interest and VLab RFG Archive Recordings		
Pre-Survey results at this <a href="#">LINK</a>		
Key Topics of interest from the Pre-Survey	Some examples from the Archive <a href="#">LINK</a> (date)	Quicklook Slides...
Weather analysis and forecasting using satellite data	Weather and Forecast Discussion, 20th July 2021 (Jul21) <a href="#">LINK</a>	<b>Quicklook 1</b>
	Examining various techniques in utilising 2.5 and 10 minute satellite data in meteorological analysis and diagnosis (Jul19) <a href="#">LINK</a>  A short case study of the Hector thunderstorm over northern Australia, utilising satellite data, other observations and high resolution NWP (Apr22) <a href="#">LINK</a>	QL1 animation 1 QL1 animation 2 QL1 animation 3 QL1 animation 4
Application of satellite data in forecasting and nowcasting high impact weather	On the rapid intensification and weakening of Tropical Cyclones Vernon and Charlotte Mar22) <a href="#">LINK</a>	<b>Quicklook 2</b>
	The eruption of the Hunga Tonga - Hunga Ha'apai volcano, 15th January 2022 (Feb22) <a href="#">LINK</a>  The remarkable development of Sumatra Squall Line SQL-31 "Xavi" (Jul21) <a href="#">LINK</a>	
RGB composite image analysis and interpretation	RGB composite examples adapted to low latitude tropical areas and to high latitude winter times, with a focus on the Australasia Pacific region (Sept22) <a href="#">LINK</a>	<b>Quicklook 3</b>
	Introducing KMA's modified Dust RGB composite for improved detection of weak dust events (Apr19) <a href="#">LINK</a>  Applying some RGB Composites to an Australian Squall line (Dec17) <a href="#">LINK</a>	





# Summary

- Have given an overview of the Australian Vlab Centre of Excellence.
- Celebrating 10 Years of Regional Focus Group (RFG) meetings
- Have shown the statistics of the past year of RFG meetings
- Have summarised the contributions by attendees
- Have advertised the archive of recordings of the RFG meetings