Pacific Regional Integrated Sciences and Assessments (RISA) Network Analysis of Climate Change Professionals in the Pacific Laura Kati Corlew, Ph. D. EAST-WESTCENTER COLLABORATION · EXPERTISE · LEADERSHIP Pacific RISA Victoria Keener, Ph.D. Melissa Finucane, Ph.D.



In 2010, the Pacific RISA conducted interviews, workshops, and surveys or island of O'ahu in Hawai'i to:

- Improve adaptation activities
- Support partnerships between scientists and decision-makers
- Identify the climate information decision-makers need
- · Identify when and why decision-makers use or fail to use avail information

A post-hoc social network analysis was applied to interview and survey finding explore climate information access by local decision-makers.

USGS, NWS, and NOAA were popular sources of water and climate inform among study participants, but they were not uniformly accessed across se (Figures 1 and 2).

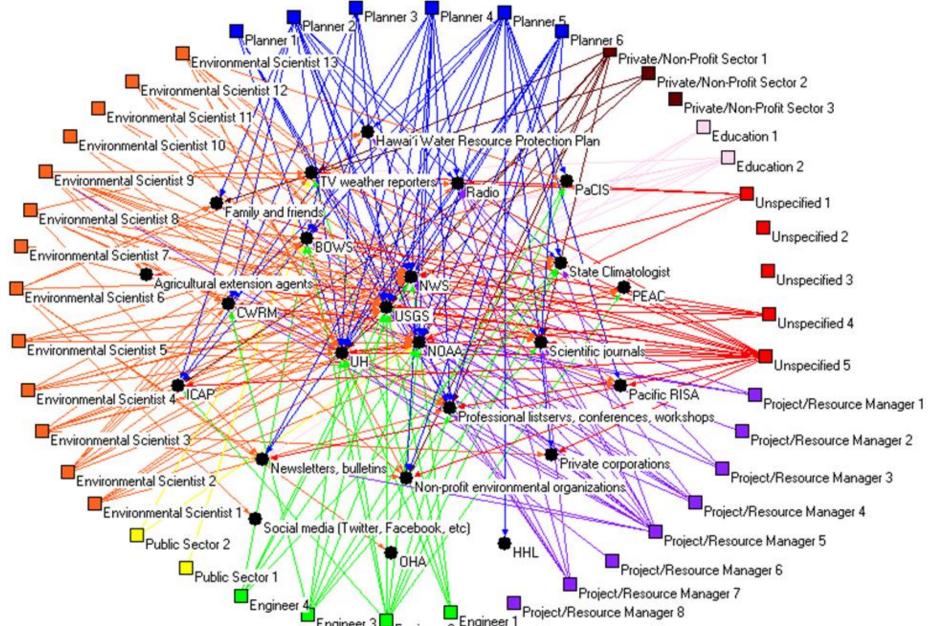


Figure 1. Two-mode social network graph portraying the extent to information sources (black circles, center) are often or very often relied upo survey participants (squares, perimeter).

Information sources most often selected as being relied upon *often* or *very often* by survey participants:

M		y salvey partici
•	USGS	29 (67.4%)
•	NWS	27 (62.8%)
•	NOAA	26 (60.5%)
•	University of Hawai'i	24 (55.8%)

- Board of Water Supply 15 (34.9%)

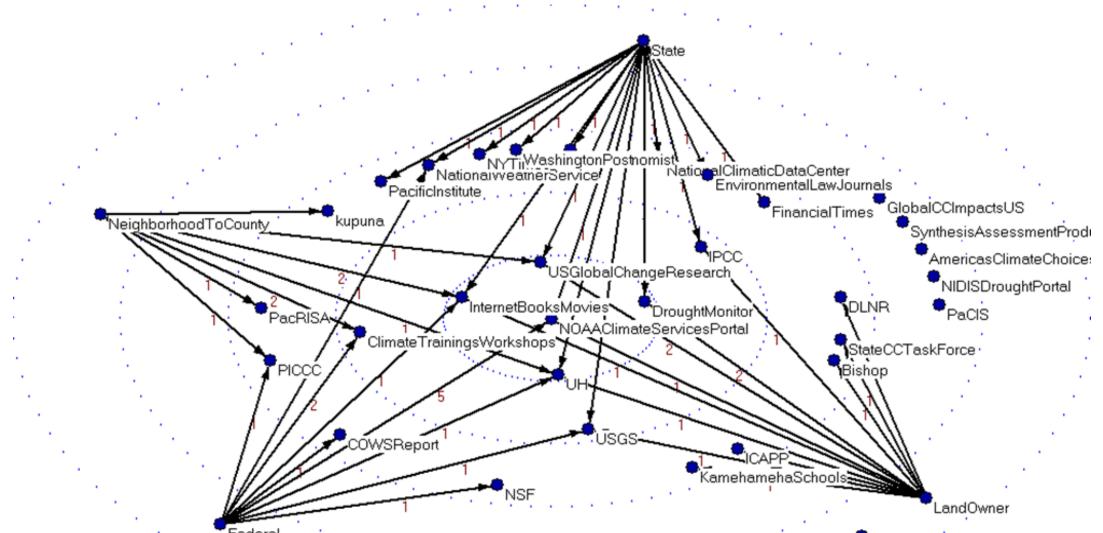


Figure 2. Two-mode social network graph portraying the extent to which information sources (center) are often or very often relied upon by interview participants (perimeter). In this network graph, participant responses are categorized by sector.

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	Definitions: Climate change professional: planning, management,							
	and natural systems aff Communication: Emails, pho	ected by we	ather and clin	nate events.				
e	Please explore the following li whether you generally commu or more, or have communicate	st of climate nicate with t	change prof hem <u>weekly</u>	or more, <u>mo</u>	r the people w			
	If you have never communicat	ed with a pe	rson, please	leave that fiel	d <u>blank</u> .			
	1. <u>American Samoa</u> : How fr	requently do Weekly	o you comm Monthly			g people? Ever		
o l	Tafito Aitaoto			3	4	5		
-	Akapo Akapo Kelley Anderson		2 2 2	3	4	5		
	Carol Baqui			3	4	5		
	Kristine Bucchianeri Tim Clark	1 1	2 2	3	4	5 5		
	Wendy Cover	1		3	4	5		
า	Sean Eagan Douglas Fenner		2 2 2	3	4	5		
	Steve Kostelnik	□ 1	2		4	5		
5	Hans Malala Maria Manga-Vaofanua		2 2 2	3	4	5		
	Domingo Ochavillo				4	5		
	Whitney Peterson	1	2	3	4	5		
	Fatima Sauafea-Le'au Apelu Sooaemalelagi		2	3	4	5 5		
	Alden Tagarino	1	2	3	4	5		
	Alofa Tuaumu	1	2	3	4	5		
	2. <u>Commonwealth of the No</u>	orthern Mai	rianas Islano	ls (CNMI): H	How frequent	tlv do vou com	municate	
	with the following people		Monthly	Seasonally	Yearly	Ever		
	Fran Castro		2	3	4	5		
	Jeridena Crisostomo Richard Farrell		2	3	4	5		
	Gerald Guerrero	□ 1	2	3	4	5		
	Peter Houk		2	3 3	4	5		
	Raymond Masga			3	4	5		
	Steven McKagan Greg Moretti Commonwealth of the North			□ ₃	tinued:			
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Previous Research: Partnerships

Domingo Ochavillo

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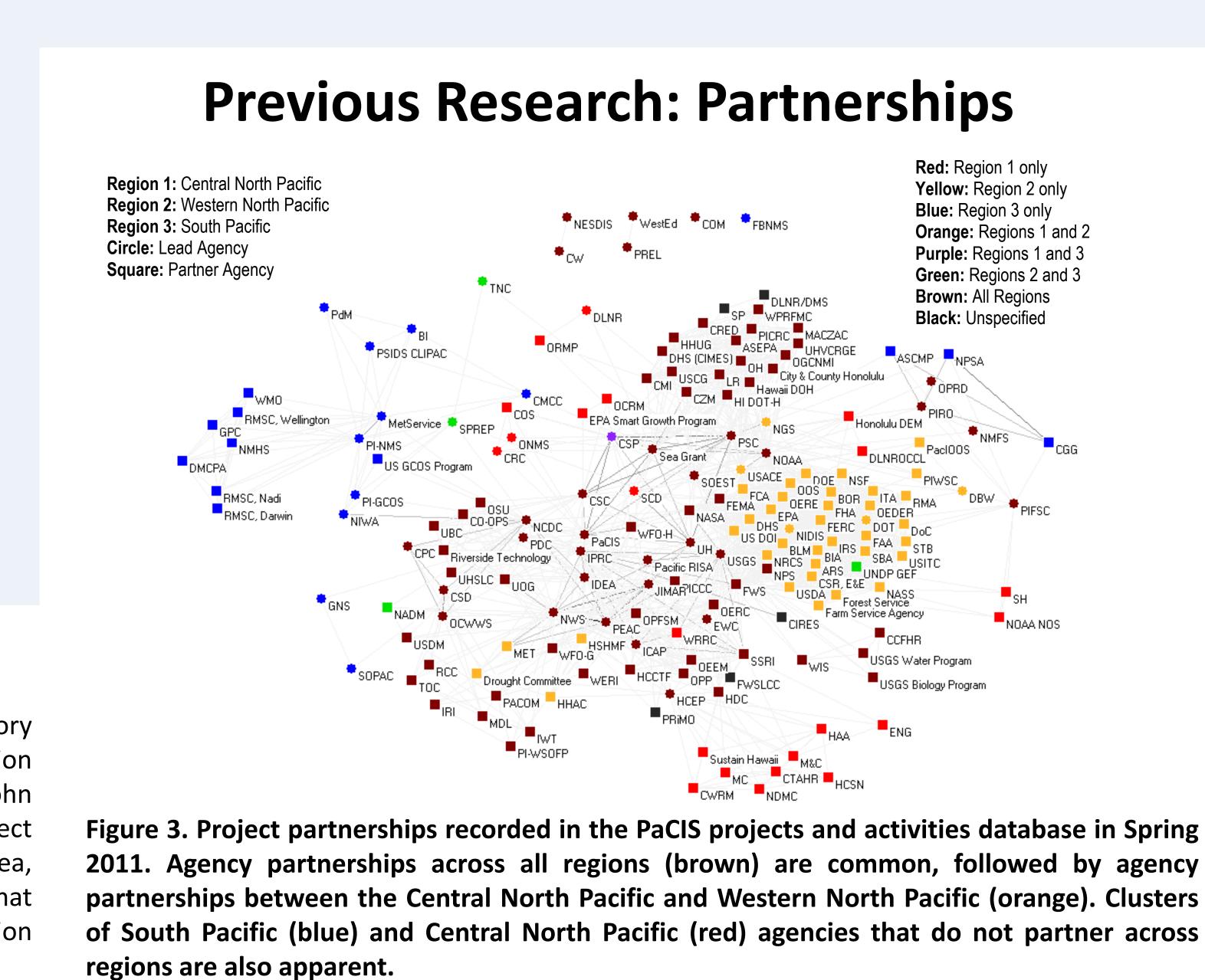
To extend the initial analysis across the region, another exploratory study was done using the Pacific Islands Climate Information System (PaCIS) projects database that is led by NOAA RCSD Dr. John Marra (found at <u>http://www.pacificislandsclimate.org</u>). Project collaborations were analyzed by sub-region, technical focus area, and by lead agency. From this initial exercise, it is apparent that region-wide stakeholder connection may vary by physical location (Figure 3).

Overview of Current Research

Why: Agencies across the Pacific have identified a pressing need to actively engage professionals from all sectors across Hawai'i and the U.S.-Affiliated Pacific Islands, and the larger Pacific Islands region, to understand and address climate change impacts.

What: The Pacific RISA organization (www.PacificRISA.org) is responding to these needs with a network analysis survey. This survey will map communications among scientists, policy-makers, educators, outreach specialists, private sector stakeholders, community and environmental groups, and others who are invested in and affected by climate variability and change impacts on natural and built environments.

Benefits: The resulting network map will show communication strengths across sectors and regions that can be leveraged for future activities in the Pacific, as well as areas for growth. The network map will be publicly available and can be used by all interested agencies across the Pacific to facilitate planning, identify partners, and justify funding requests for future collaborations.



Acknowledgements: This study is supported by the National Oceanic and Atmospheric Administration (NOAA) and the Pacific Islands Climate Science Center (PICSC).

Red: Region 1 only Yellow: Region 2 only Blue: Region 3 only **Orange:** Regions 1 and 2 **Purple:** Regions 1 and 3 **Green:** Regions 2 and 3 Brown: All Regions Black: Unspecified