BIENNIAL STRATEGY REVIEW SYSTEM Chesapeake Bay Program



Logic and Action Plan: Pre-Quarterly Progress Meeting

Climate Monitoring & Assessment and Climate Adaptation - 2023-2024

[NOTE: make sure to edit **pre**- or **post**- in the text above, to tell the reader whether this logic and action plan is in preparation for your quarterly progress meeting or has been updated based on discussion at the quarterly progress meeting.]

Long-term Target: (the metric for success of Outcome) **Two-year Target:** (increment of metric for success)

Instructions: Before your quarterly progress meeting, provide the status of individual actions in the table below using this color key.

Action has been completed or is moving forward as planned.

Action has encountered minor obstacles.

Action has not been taken or has encountered a serious barrier.

Additional instructions for completing or updating your logic and action plan can be found on ChesapeakeDecisions.

Factor	Current Efforts	Gap	Actions	Metrics	Expected Response and Application	Learn/Adapt
What is impacting our ability to achieve our outcome?	What current efforts are addressing this factor?	What further efforts or information are needed to fully address this factor?	What actions are essential (to help fill this gap) to achieve our outcome?	What will we measure or observe to determine progress in filling identified gap?	How and when do we expect these actions to address the identified gap? How might that affect our work going forward?	What did we learn from taking this action? How will this lesson impact our work?
		Outcom	e: Monitoring &	Assessment		
Assessment: Scientific Capabilities. The scientific capabilities to estimate, project, model and monitor ecosystem changes and impacts as a result of climate change are complex and resource intensive. Additionally, impacts are exacerbated by non- climate stressors (e.g., land-subsidence, land use change, growth and development). Appropriate science and modeling of climate and non-climate related stressors are necessary for Chesapeake Bay Program partners to properly address climate impacts during policy	Development of climate change indicators on Chesapeake Progress. ITAT Tidal Trends Analyses; Bay Trends Interactive Map Application of the climate change TMDL model.	Need scientific capability to monitor climate and other stressors simultaneously; need to ensure that long-term monitoring networks include key parameters to assess climate change impacts and coincide with monitoring other stressors when feasible; need to sustain and support long-term monitoring networks (e.g., CBP Monitoring Network, Sediment Elevation Table Marsh Studies);			Development of climate change indicators will depend on the quality of supporting data, the added value of the indicators for helping to understand and explain management successes, and the priorities and resources of the CBP Partnership. CRWG is planning to develop 1-2 new climate change indicators during 2021-2022.	

planning and adaptation efforts.		downscaled climate modeling data and data to develop and test models; need continued efforts to understand thresholds of climate stressors on water quality, fisheries, and habitats, interaction of multiple stressors, and quantification of cobenefits.			
Monitoring & Assessment: Geographic Extent/Variability of the Watershed. The impacts of climate change will be varied across the Watershed. It is important to not limit the focus of the management strategy to coastal issues alone but to recognize the wide range of monitoring, assessment and adaptation needs throughout the region. However, the variability of the ecosystem within the Bay proper and the larger watershed presents challenges in data consistency and	Scientific data collection at DE, MD, VA NERRS sites to gain a better understanding of what is happening at the reserve level and how that can be applied to the Bay as a whole. Healthy Watersheds is incorporating climate metrics and vulnerability into their Healthy	Need methods aimed to improve data consistency and comparability among regions and sectors.		Currently, the CRWG does not have adequate resources to tackle both Bay and watershed climate change assessment needs across workgroups simultaneously. Need partner support.	

comparability among	Watersheds Assessment.				
regions and sectors.	Assessment.				
Monitoring & Assessment: Complexity of the Monitoring Program. A monitoring program to detect ecosystem change and inform program and project response is a complex undertaking. Developing an acceptable monitoring approach for the watershed will be complex, and there are clear budgetary challenges associated with such long-term monitoring.	Data collected by NOAA Chesapeake Bay Sentinel Site Cooperative (CBSSC) and satellite office, CBP Monitoring Network. Completion of, "Enhancing the Chesapeake Bay Program Monitoring Networks: A Report to the Principals' Staff Committee." Outlines various climate-related monitoring and assessment needs.	Need to identify and connect climate resilience science needs for adaptation decision-making with monitoring needs; need institution capacity to develop and perform long-term monitoring to detect ecosystem change and a steady funding source for such efforts; need to evaluate alternative monitoring strategies, such as use of satellite data.		CRWG has the capacity to provide information on science needs related to climate stressors that can be considered and integrated in monitoring networks by the Integrated Monitoring Network Workgroup.	
Adoutation, Stakeholder	Callabaration	Need collective	Outcome: Adaptatio	Limited CDMC	
Adaptation: Stakeholder Engagement. Although	Collaborating with the	agreement; need		Limited CRWG staff resources	
there is	Strategic	better		makes it difficult to	
acknowledgement that	Engagement	understanding of		make progress on	
climate change and	Team on	stakeholder climate		this factor.	
adaptation need to be	connecting	resilience and		tins ractor.	
addressed, there is a lack	climate	adaptation decision-			
of understanding or	resiliency work	making needs; need			
or understanding of	resiliency work	making needs, need			

agreement from stakeholders on what it	with local community	facilitation in connecting the		
means to be resilient or	needs.	science across the		
what constitutes		different		
resiliency, including what		stakeholder groups		
kind of actions support		to support decision-		
an adaptive		making; need		
management approach.		stakeholder support		
Lack of appropriate		in implementing		
stakeholder engagement		recommendations;		
jeopardizes acceptance		need willingness to		
of choices made about		discuss managed		
action plans and		retreat as an option		
implementation		•		
strategies, introducing				
additional levels of social				
discord in an already				
complex environmental-				
economic-social				
landscape. There are also				
different types of				
stakeholders, and in				
many cases, they have				
different goals making it				
challenging to have				
adequate resources to				
facilitate meaningful				
connections across all				
stakeholder groups.				
Adaptation: Capacity.	Marsh	Knowledge of types		
There is a general lack of	Adaptation	of technical		
capacity to fill research	Project	assistance/expertise		
gaps and translate the		needed by		
science and incorporate		jurisdictions.		
meaningful change into				
plans, programs,				
processes or projects				
across the entire CBP				
partnership. Although				

	I	I		
building that capacity is				
paramount, it can be				
time consuming and				
costly, considering the				
resource constraints				
faced by governments				
and organizations and				
the variability in				
adaptation approaches.				
Adaptation: Authority.	Individual	Need knowledge of		
Governments' and	jurisdictional	institutional/		
institutions' ability to	incorporation of	regulatory barriers;		
respond to climate	climate	need incorporation		
change is also limited by	narrative (or	of climate change		
legislative, policy,	voluntary	considerations		
regulatory and other	numerical	across programs.		
authorities.	target) into			
	WIPs III.			
	States and			
	communities			
	around the			
	Chesapeake Bay			
	are taking steps			
	to prepare or			
	maintain their			
	climate change			
	adaptation or			
	sustainability			
	plans.			
Adaptation: Guidance.	Ongoing	Need development		
There is a need to	research and	of clear tools and		
translate existing science	models, tools	guidance to develop		
into guidance for the	and metric	plans and efficacy of		
CBP, as well as	development by	response; lack of		
stakeholders, to use to	CBP partners.	extensive		
develop adaptation plans		information (or		
and to measure efficacy		information		
of response to climate		dissemination) on		

change impacts. The		the costs of climate			
nature of on-the-ground		change impacts in			
implementation often		specific areas, or the			
requires a level of		cost savings and			
certainty or methods to		ecosystem benefits			
address uncertainty		represented by			
related to climate		specific mitigation			
change effects on key		or adaptation			
factors (e.g., hydrology,		measures.			
water quality,					
temperature,					
precipitation, sea level					
rise, coastal erosion					
rates). Additionally,					
there is variability in					
institutional responses					
on how to address					
climate change impacts					
making it challenging to					
develop guidance that					
can be applied					
consistently across all					
watershed jurisdictions.					
Adaptation:	The Climate	Need to achieve			
Collaboration. The many	Resiliency	strategic			
and diverse stakeholders	Workgroup	collaboration across			
and organizations that	meets monthly	the other goals in			
make up the Bay	to discuss a	the Chesapeake Bay			
Program are a strength,	variety of	Watershed			
but it also causes	climate topics	Agreement that			
collaboration challenges	and provide a	maximizes resources			
that must be addressed	forum for	and connects			
in order to maximize	information-	science to inform			
resources and provide	sharing to	decision-making;			
strategic adaptation	encourage	need consensus on			
approaches across the	collaboration.	strategic adaptation			
watershed.	23.1420.441011.	approaches that fit			
		the impact and area			
		of concern			
		or concern		1	

Key: Rows shaded in blue have been identified as primary actions for the Climate Resiliency Workgroup (CRWG) for the next 2 years and includes a mix of Chesapeake Bay Program and CRWG member priorities. Actions with bolded text indicate the primary actions that the core CRWG members identified that they are most interested in making progress on during the next two years. Rows shaded in white are secondary actions and progress will be dependent on the availability of staff and workgroup members.

		Monitoring & Assessm	nent Actions – 2023 - 20)24		
Action			Responsible Party	Geographic	Expected	Progress Status
#	Description	Performance Target(s)	(or Parties)/ Point of	Location	Timeline	
#			Contacts			
_		ess past and future trends of climate	•	eake Bay and wate	rshed in	
connect		e Chesapeake Bay Watershed Agre			ı	
	Coordinate updates	a. Finish updates for the Average	a. Jamileh Soueidan	Bay/ watershed-	Updating climate	
1.1	for prioritized	Air Temperature Change and	(CRWG Staffer),	wide	change indicators	
	climate change	Total Annual Precipitation	Kathryn Barnhart		will rely on	
	indicators on	Change climate indicators.	(U.S. EPA/Status and		available data	
	Chesapeake Progress		Trends Workgroup),		and assistance	
		b. Revise text on Chesapeake	Mike Kolian (U.S.		from data	
		Progress to better align with	EPA)		providers/	
		current climate change indicator			analysts from	
		efforts.	b. Jamileh Soueidan		other agencies.	
			(CRWG Staffer), Julie			
			Reichert-Nguyen			
			(NOAA/CRWG)			
	Coordinate the	a. Support cross-workgroup	a. Julie Reichert-	a/b. Bay-wide or	CRWG plans to	
1.2	development of	discussions to identify user case	Nguyen	place-based	make progress	
	prioritized climate	scenarios on how best to	(NOAA/CRWG),	(depends on	on the	
	change indicators in	incorporate the resource-related	Jamileh Soueidan	discussions)	development of	
	connection with	outcome needs (e.g., fish	(CRWG staffer) and		1-2 climate	
	clear management	habitat, SAV) when developing	Bruce Vogt	c. Watershed-	change indicators	
	objectives with	the Bay Water Temperature	(NOAA/Fisheries	wide or place-	during 2023-	
	corresponding	Change climate indicator. Meet	GIT); Support: Peter	based	2024.	
	workgroups and	with potential data	Tango		Development of	
		providers/analysts (e.g., NOAA,	(USGS/STAR)?, Breck		new indicators	

natural resource outcomes ITAT) to assess feasibility of outcomes approaches and support to develop and maintain the indicator(s). Brooke Landry b. Assess the inclusion of multiple stressor-type information for the Bay Temperature Change Indicator related to marine heat waves Sullivan (USGS/STAR coordinator)?, the quality of supporting data, cross-workgroup involvement, and the priorities and resources of the CBP Partnership.			II // I / to accord toacibility of	Cullivan (HCCC/CTAD		will donand on	
develop and maintain the Rebecca Murphy indicator(s). Brooke Landry involvement, and the priorities and multiple stressor-type workgroup)? Temperature Change Indicator Rebecca Murphy supporting data, cross-workgroup involvement, and the priorities and resources of the CBP Partnership.			ITAT) to assess feasibility of	Sullivan (USGS/STAR		will depend on	
indicator(s). (UMCES/ITAT)?, Brooke Landry involvement, and b. Assess the inclusion of (MDNR/SAV the priorities and multiple stressor-type Workgroup)? Temperature Change Indicator (UMCES/ITAT)?, Brooke Landry involvement, and the priorities and resources of the CBP Partnership.		outcomes	' '	· ·			
Brooke Landry involvement, and b. Assess the inclusion of (MDNR/SAV the priorities and multiple stressor-type Workgroup)? resources of the information for the Bay CBP Partnership. Temperature Change Indicator b. Julie Reichert-			·	• •			
b. Assess the inclusion of (MDNR/SAV the priorities and multiple stressor-type Workgroup)? resources of the information for the Bay CBP Partnership. Temperature Change Indicator b. Julie Reichert-			indicator(s).				
multiple stressor-type information for the Bay Temperature Change Indicator Workgroup)? CBP Partnership. CBP Partnership.				· ·			
information for the Bay Temperature Change Indicator b. Julie Reichert- CBP Partnership.			b. Assess the inclusion of	•		•	
Temperature Change Indicator b. Julie Reichert-			multiple stressor-type	Workgroup)?		resources of the	
			information for the Bay			CBP Partnership.	
related to marine heat waves Nguyen			Temperature Change Indicator	b. Julie Reichert-			
			related to marine heat waves	Nguyen			
and dissolved oxygen based on (NOAA/CRWG),			and dissolved oxygen based on	(NOAA/CRWG),			
recommendations and science Jamileh Soueidan			recommendations and science	Jamileh Soueidan			
needs expressed during the (CRWG staffer);			needs expressed during the	(CRWG staffer);			
Rising Water Temperature STAC Support: Peter			Rising Water Temperature STAC	Support: Peter			
workshop. Tango (USGS)?, Qian			workshop.	Tango (USGS)?, Qian			
Zhang				Zhang			
c. In coordination with Healthy (UMCES/CRWG)?			c. In coordination with Healthy	(UMCES/CRWG)?			
Watersheds GIT and Brook Trout			Watersheds GIT and Brook Trout				
Workgroup, continue exploring c. Renee Thompson			Workgroup, continue exploring	c. Renee Thompson			
collaboration with USGS to (USGS/Healthy			collaboration with USGS to	(USGS/Healthy			
connect their stream Watersheds),			connect their stream	Watersheds),			
temperature compilation project Stephen Faulkner			temperature compilation project	Stephen Faulkner			
with updating the stream (USGS/Brook Trout			with updating the stream	(USGS/Brook Trout			
temperature change indicator Workgroup), Jamileh			temperature change indicator	Workgroup), Jamileh			
for use in the Healthy Soueidan (CRWG			for use in the Healthy	Soueidan (CRWG			
Watersheds Assessment staffer), John Clune			·	·			
involving brook trout habitat and (USGS)			involving brook trout habitat and	••			
the identification of potential			_	,			
resilience factors.			•				
Management Approach 2: Fill critical data and research gaps and improve understanding of climate change impacts and	Manage			mprove understanding	of climate change i	impacts and	
implications for selected outcomes in the Chesapeake Bay Watershed Agreement	_			•			
1.3 Increase capacity to a. Review recommendations a. Julie Reichert- a. Placed-based	1.3	Increase capacity to	a. Review recommendations	a. Julie Reichert-	a. Placed-based		
better understand from the Habitat GIT's FY20 GIT- Nguyen (target area –		better understand	from the Habitat GIT's FY20 GIT-	Nguyen	(target area –		
sea level rise effects funding project, "Synthesizing (NOAA/CRWG),		sea level rise effects	funding project, "Synthesizing	(NOAA/CRWG),			

	on coastal marsh habitats and their ecosystem services	shoreline, sea level rise, and marsh migration data to inform wetland restoration targeting" and explore use of the synthesis product to inform decision-making for coastal adaptation projects (see action 2.2). b. Explore partnerships and methods to quantify current and projected coastal wetland losses from sea level rise and wetland gains from marsh migration, in coordination with the Wetland WG.	STAR Staffer?, CRWG member - Molly Mitchell (VIMS/CRWG)?, contractor: Skeo b. Julie Reichert-Nguyen (NOAA/CRWG), STAR staffer?, Joel Carr (USGS/CRWG)?; Support: Neil Ganju (USGS)?, Labeeb Ahmed (USGS/GIS Team/CRWG)?, Wetland WG member?	Middle Peninsula, VA) b. Bay/ watershed-wide or place-based (depends on decided methodology)		
1.4	Coordinate with the Modeling Workgroup and the Water Quality Goal Implementation Team (WQGIT) to support the application of TMDL climate change projections	a. Provide advisory support to the Modeling Workgroup and Water Quality GIT on the application of the TMDL climate change model projections or updates for 2025.	a. Mark Bennett (USGS/CRWG), Lew Linker (EPA/Modeling WG), Jeremy Hanson (CRC/WQGIT)	a. Bay/ watershed- wide		
1.5	Improve understanding of best management practices (BMP) responses to climate change conditions	a. Provide advisory support on EPA Request for Applications related to BMP climate resilience research.	a. CRWG: Mark Bennett (USGS), Julie Reichert-Nguyen (NOAA); WQGIT: Ed Dunne (DOEE), Jeremy Hanson			

(EC Climate Directive	(CRC), Lucinda		
Workplan action)	Power (EPA);		
	Modeling		
	Workgroup: Lew		
	Linker (U.S. EPA)		

	Adaptation Actions – 2023 - 2024									
Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline	Progress Status				
_	ement Approach 1: Imp tion with the goals in th									
2.1	Support efforts to identify approaches to track climate resilience activities and define resilience enhancement	 a. Plan discussions during CRWG meetings on how the CRWG can feasibly track progress on the Adaptation Outcome. b. Invite researchers to present on how they are quantifying resilience effectiveness in relation to habitat and community resilience. c. Support EPA ORD ROAR project - Climate Vulnerability and Natural Infrastructure Resilience Effectiveness Assessment 	a/b. Jackie Specht (TNC/CRWG), Julie Reichert-Nguyen (NOAA/CRWG), Jamileh Soueidan (CRWG staffer); Elizabeth Andrews (RAFT/CRWG)? Lena Easton- Calabria (RAND/CRWG)? c. Julie Reichert- Nguyen (NOAA/CRWG); Kevin DuBois (DoD/CRWG)?							

2.2	Assist with capacity-	a. Continue to support the GIT-	a. CRWG: Nicole	a. TBD - two		
	building activities	funded Marsh Adaptation Project:	Carlozo (MDNR),	regional		
	that support the	1) Synthesize and promote use of	Jackie Specht (TNC),	focus areas		
	implementation,	common resilience and social	Taryn Sudol (MD	(one in MD		
	pairing, and design	vulnerability metrics for selecting	Sea Grant) Julie	and one in		
	of natural	marsh restoration locations and	Reichert-Nguyen	VA)		
	infrastructure	measuring success and 2) build	(NOAA), Jamileh			
	projects that	partnerships to pursue marsh	Soueidan (CRWG			
	enhance the	restoration and research projects	staffer), Alex			
	resiliency of the Bay	under the influx of resiliency	Gunnerson (STAR			
	and aquatic	funding. Supports action in the EC	staffer); John Wolf			
	ecosystems from	Climate Change Directive	(USGS, CBP GIS			
	coastal climate	Workplan.	Team); Contractor:			
	change impacts		Skeo			
		b. Through a possible GIT-funding				
		project, build upon the resilience	b. Julie Reichert-			
		metrics review (see action 2.2a)	Nguyen			
		and synthesize information and	(NOAA/CRWG),			
		methodologies from the various	Jamileh Soueidan			
		partner resilience tools and	(CRWG staffer),			
		studies into consolidated	Wetland WG			
		guidance to help practitioners	member?,			
		with siting and/or designing	Support: CBP GIS			
		natural infrastructure projects	Team?, Land Use			
		(e.g., living shorelines, tidal	WG member -			
		wetlands).	Peter Claggett?,			
			John Wolf (USGS,			
		c. Provide advisory support and	CBP GIS Team)?			
		summarize lessons learned on the				
		grant application process for	c. ???			
		projects identified through the				
		CRWG's GIT-funded Marsh				
		Adaptation Project (see action				
		2.2a).				

Management Approach 2: Undertake public and stakeholder engagement to increase understanding of climate change								
impact	s to inform and support	adaptation						
2.3	Coordinate with the	a. Invite representatives from the	a. CRWG: Jamileh					
	CBP Strategic	Local Government Advisory	Soueian (CRWG					
	Engagement Team	Committee to present on	staffer); LGAC:					
	to help connect the	recommendations from the Local	Jennifer Starr					
	CRWG science	Government Forum: Integrating	(Alliance for the					
	support activities	Resilience into Local Planning.	Chesapeake Bay)					
	with community							
	resiliency needs	b. Review recommendations from	b. POC: Amy					
		the FY20 GIT-funded project,	Hayden (UMCES);					
		"Chesapeake Bay Program Social	CRWG member?					
		Science Assessment and	STAR staffer?					
		Integration Road Map						
		Development" and determine any						
		follow-up actions.						
		lress the institutional capacity of the	Chesapeake Bay Prog	ram to prepare i	for and respond to			
	change		200 11 11	İ				
2.4	Consult on cross-GIT	a. Placeholder: Forestry	a. POC: Katie					
	climate change	Workgroup climate adaptation-	Brownson					
	projects	related FY22 GIT-Funded project	(USFS/Forestry					
		h Blanckalder Grand Harlin	Workgroup/CRWG)					
		b. Placeholder: Stream Health	la BOC Altra					
		Workgroup climate resilience-	b. POC: Alison					
		related FY22 GIT-Funded project	Santoro (Stream					
		a Diagobaldori CANANA distriction	Health Workgroup)					
		c. Placeholder: SAV Workgroup	a DOC Brack					
		climate resilience-related FY22	c. POC: Brook					
		GIT-Funded project	Landry (MDNR/SAV					
			Workgroup)			vember 17, 2022 Page 18 of 16		

Chesapeake Bay Program's SRS process to conduct a biennial review of the Climate Resiliency Workgroup and assess priorities Morkgroup and aspendato to prioritize climate- related requests from the CBP workgroups for CRWG assistance. Morkgroup Resiliency Morkgroup Alackie Specht (TNC/CRWG), Alex Gunnerson and Amy Goldfischer (STAR staffers), Breek Sullivan (USGS/STAR), Peter Tango (USGS/STAR) Tango (USGS/STAR) Tango (USGS/STAR) C. Document high priority science needs to disseminate among groups in the STAR science needs database.	
process to conduct a biennial review of the Climate the workgroup can support climate resilience outcomes and assess priorities within the watershed and member organizations. Include an approach to prioritize climate-related requests from the CBP workgroups for CRWG assistance. b. SRS Support – Develop Climate Resiliency Workgroup logic and action table and update management strategies and appendix of partnership climate resilience efforts (supports action in Climate Change Directive Workplan) c. Document high priority science needs to disseminate among groups in the STAR science needs	
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c. Document high priority science needs to disseminate among groups in the STAR science needs	
c. Document high priority science needs to disseminate among groups in the STAR science needs	
needs to disseminate among groups in the STAR science needs	
needs to disseminate among groups in the STAR science needs	
groups in the STAR science needs	
database.	
d Determine heavily a new discussion	
d. Determine how the workgroup	
can support science	
recommendations from the Rising	
Water Temperature STAC	
workshop.	

	e. Evaluate workgroup's role in supporting ocean acidification and blue carbon/carbon sequestration monitoring and assessment needs, in coordination with STAR (refer to Enhancing the Chesapeake Bay Program Monitoring Networks report to the PSC).			
2.6 CRWG n and mee	a. Distribute survey to workgroup members to understand their climate related interests and expertise to identify opportunities and gaps in membership to support the Monitoring and Assessment and Adaptation Outcomes and crossworkgroup climate-related projects. b. Seek to expand workgroup membership to support activities and align with resiliency funding opportunities. c. Organize and facilitate CRWG meetings. Work with members to identify the best structure for meetings to effectively make progress on CRWG actions. d. Host meetings to identify and discuss gaps in resiliency work	Julie Reichert- Nguyen (NOAA/CRWG), Jamileh Soueidan (CRWG Staffer), Mark Bennett (USGS/CRWG), Jackie Specht (TNC/CRWG), Alex Gunnerson and Amy Goldfischer (STAR staffers)		

		(e.g., ghost forests/forest loss, marsh migration tradeoffs, benefits of living shorelines versus hardened shorelines, equitable adaptation) in collaboration with respective workgroups.			
2.7	Prepare for new federal and state climate initiatives and emerging issues related to the Chesapeake Bay climate resilience needs	 a. Federal Office Directors (FOD) communicate with CRWG on new administration climate policy and direction. b. Develop process to document emerging climate change issues provided by FOD and state partners. 	a. FOD: Lee McDonnell (U.S. EPA), Mark Bennett (USGS), and Sean Corson (NOAA) b. Mark Bennett (USGS/CRWG), Julie Reichert-Nguyen (NOAA/CRWG), Jamileh Soueidan (CRWG staffer)		