"Implications of Climate Change and Disasters on Military Activities: Building Resilience and Mitigating Risks and Vulnerability in the Balkans"

5-7 July, 2016

Sofia, Bulgaria

### **WORKSHOP PURPOSE**

This three-day workshop is designed to provide preliminary recommendations on ways to educate and develop capacity among disaster response, security and other professionals from diverse backgrounds whose current and future interests relate to crisis management.

## **WORKSHOP GOALS**

- To understand the threat of climate change and disasters to environmental security using a multidisciplinary approach to improving regional security cooperation.
- To address the complex issues of climate change and disasters on military activities

#### **DAY 1 OBJECTIVES**

- 1. Identify broad issues on climate change and disasters particularly those with the highest importance to future regional security
- 2. Identify areas of common interests among participants for future areas of collaboration

#### **DAY 2 OBJECTIVES**

- 3. Open exchange of participant perspectives on capability gaps and practical analysis and approaches to disaster management
- 4. Understand the importance of surge capacity in complex catastrophes

## **DAY 3 OBJECTIVES**

- 5. Build mutual understanding and shared perspectives among growing community of interests in the Balkan region
- 6. Recommend ways ahead for sustainable mechanisms for future collaboration and cooperation that includes but not limited to knowledge exchange, stronger multi-sectoral ties between the military and other stakeholders

# "Implications of Climate Change and Disasters on Military Activities: Building Resilience and Mitigating Risks and Vulnerability in the Balkans" DAY 1: TUESDAY JULY 05 2016

The Changing Environmental Security Landscape Due to Climate Change

TIME	TOPIC	PANEL	PRESENTER	LEARNING OBJECTIVE	QUESTIONS
		0	CMDR COE	Welcome Address,	
			Col. Orlin	Administrative	
60 min total	Plenary:		Nikolov	Remarks	
	Setting the Context		Serbian	Opening Remarks	
			Ministry		
			Defense,		
			Col. Katarina		
			Strbac		
			USACE	Introductions,	
				Workshop Learning	
				Objectives	
				PICTURE & BREAK (30 m	in)
30 minutes	Keynote Address		NIMH-BAS	Climate Change	
			Prof. Valentin	Fundamentals	
			Kazandgiev		
30 minutes	Warm Up Exercise		USACE ERDC	"Perceptions on the Current State of Human- Environmental Security in the Balkan Region"	
			US Army	Civil-Military	Within your respective contexts:
			Command and	Operations, Climate	How are human security and climate security related?
45 min	Implications of Changing	1	General Staff	Change and Disasters	How do we understand human security with respect to disasters?
presentations	Climates upon Civil-		College		



45 min facilitated Q&A 90 min total	Military Stakeholders using Environmental Security Lens  Panel Chair/Moderators: CMDR COE/Dr. Imes Chiu		(Brigadier General (Ret.) Chris King) CMDR COE (Maj. Stoyan Stoyanov) International Alert (Ms. Janani Vivekananda)	Implications on Climate Changes on Military Activities How are climate change and human security interrelated?	<ul> <li>How do you know which individuals or groups within a community are particularly vulnerable to disasters? How do you 'measure'/identify resilient parts of a population?</li> <li>What challenges and/or opportunities arise when thinking in terms of vulnerability, resilience, and adaptive capacity?</li> </ul>				
	LUNCH (60 min)								
30 min presentation	Key Concepts in Linking Environmental, Human and Theater Security: Global Perspectives	2	US Africa Command, J- 44 (Mr. Jeffrey Andrews)	Perspectives from Africa Command on Linking Human and Environmental Security	Within your respective contexts:  Which would be the benefits for taking a DRM approach?  What are the benefits for the military to utilize a DRM lens?  What challenges to/opportunities for civil-military collaboration arise when you apply a DRM lens? Self-critically look at implications of a military DRM intervention in the local context (taking cultural and historic contexts into account)				
facilitated Q&A 60 min total	Panel Chairs/Moderator: Bulgaria CMDR COE/ Ms. Janani Vivekananda		Environmental Law Institute (Dr. Carl Bruch)	Disasters and Security	<ul> <li>Which roles should and can military and civil actors take respectively in order to best serve the goals of DRM?</li> <li>How can a civ-mil collaboration in DRM be most effectively organized and implemented?</li> <li>What are the security implications of DRM upon the military?</li> </ul>				
45 min	Using Systems Thinking:		Ms. Swathi						
10 min	Small Groups Exercise  Day 1 Content and  Logistics Wrap Up		Veeravalli Dr. Imes Chiu	Preparing for Day 2					

## "Implications of Climate Change and Disasters on Military Activities: Building Resiliency and Mitigating Vulnerability in the Balkans" DAY 2: WEDNESDAY JULY 06 2016

Disaster Response: Planning Multiple Stressors Using Whole of Government Approaches

TIME	TOPIC	PANEL	PERSON	OBJECTIVE	QUESTIONS	
20 min	Day 2 Introduction			Objectives/ Administration		
80 min	Disaster Risk	3	DG FSCP (Mr. Georgi Petrov)	Bulgaria 2015 Peer Review Report	Within your respective contexts:  Are you planning for one stressor or multiple?  To which extent do( es) the type(s) of stressor(s) have an impact on the planning and application?	
presentation 40 min facilitated	Management: Planning for Multiple Stressors and Risks using Whole of Government Approaches	nning for and of	International Alert (Ms. Janani Vivekananda)	DRM: Using a resilience systems approach to plan for multiple stressors	<ul> <li>What does planning for multiple stressors look like?</li> <li>What are the particular challenges and opportunities associated with planning for multiple stressors?</li> <li>How do you scale up (or down) DRM interventions as stressors are added (or removed)?</li> </ul>	
Q&A			Tennessee National Guard (COL Doug Brantley)		How do partnerships between civil-military stakeholders help DRM?	
			Mr. Luan QAFMOLLA	Spent Hight Activity Radioactive Sources		
120 min total	Panel Chairs /Moderator: Bulgaria Academy of Sciences and Dr. Carl Bruch		US Army Corps of Engineers, Engineer Research and Development Center, Geospatial Research Laboratory (Mr. Michael Campbell)	Examples of Open Source Software and Imagery for Regional Land Cover Mapping		
LUNCH (60 min)						
75 min presentation/	Facilitated Discussion:		Dr. Imes Chiu Maj Kosta Delev	Case Studies	NA	



discussion 30 min group	Lessons Learned and Best Practices in Complex Catastrophes from the						
activity	Indo-Asia-Pacific Region:						
	Perspectives from the						
135 min total	Affected and Assisting						
	States						
BREAK (30 min)							
30 min	Small Group Discussions &		APCSS (Dr. Imes	Processing Day 2	NA		
	Day 2 Wrap Up		Chiu)				
10 min	Logistics Wrap Up	NA		Preparing for Day 3	NA		

NOTE: Exact time for second break will be determined in country.

(6.5 hours total)

## Implications of Climate Change and Disasters on Military Activities: Building Resiliency and Mitigating Vulnerability in the Balkans DAY 3: THURSDAY JULY 07 2016

Understanding Current Disaster Risk Management Capacity | Identifying Ways Forward

TIME	TOPIC	PANEL	PERSON	OBJECTIVE	QUESTIONS		
20 min	Day 3 Introduction			Objectives / Administration			
80 min	Disaster Risk Management: Facilitating Adaptive Capacity	4	Environmental Law Institute (Dr. Carl Bruch)	Assessing and Leveraging Existing Capacity	Within your respective contexts:  How does adaptive capacity look like across various local institutional frameworks and cultures in the Balkans?  What has been the historic involvement of military actors within the		
presentation 40 min facilitated			Data4Resilience (Dr. Marc van den Homberg )	Identification of Data Requirements	<ul> <li>Balkans during flood response?</li> <li>What are the opportunities /challenges associated with adaptive capacity in the Balkans?</li> <li>How can we use DRM to increase adaptive capacity in the Balkans?</li> <li>How might civil-military partnerships support improved adaptive capacity</li> </ul>		
Q&A		Ministry of Defence of Republic of Serbia (Col. Katarina Strbac)	Serbia, Bosnia and Croatia 2014 Floods	in the Balkans?			
			US Army Corps of Engineers, Engineer Research and Development Center, Geospatial Research Laboratory (Dr. Andmorgan Fisher)	Geoinformatics for Disaster Risk Assessment, Monitoring, and Management			
120 min total	Panel Chair / Moderator: Bulgaria Ministry of Defense / Dr. Chris King		Tennessee Emergency Management Authority (Mr. Craig Hanrahan)				
LUNCH (90 min)							
60 min presentation	Facilitated Dialogue: Sustaining the Community		Ms. Swathi Veeravalli and Col. Orlin Nikolov	Partnership Opportunities; Processing Day 3	NA		



30 min Q&A 90 min total	of Interest within the Balkans			
60 mins	Closing Ceremony		Closing Remarks and Certificate Presentation	