

Final Agenda

Managing Data from Seismic Networks & Advanced Studies Institute Workshops
 9-17 September 2015
 Hanoi, Vietnam

L=LECTURE
 C=COMPUTER EXERCISES

8-Sep-2015	Tuesday	DURATION			Hotel (Silk Path Hotel)
	18:00	3:00	Registration software installation (virtual box, OBSPY, etc)	L	

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9-Sep-2015	Wednesday				
	8:00	0:30	Registration Continues		
	8:30	0:50	Welcome and Introductions Welcome by Vietnam Academy of Science and Technology Welcome by other Dignitaries from VAST The purpose of the workshop Introduction of participants Introduction of Lecturers	L	Dr. Nguyen Xuan Anh
				L	Dr. Tim Ahern
	9:20	0:15	An Overview of IRIS Data Services and International Development	L	Tim Ahern
	9:35	0:20	Review of Agenda	L	Tim Ahern
	9:55	0:10	Logistics	L	Mr. Van
	10:05	0:30	The FDSN and International Data Exchange	L	Tim Ahern
	10:35	0:30	Break		
	11:05	1:30	Seismic Stations		
			Site Selection and Installation, Seismometers, Acquisition Systems, Communication Systems	L	Dr. Peter Davis
	12:35	1:25	Lunch		
	14:00	1:30	Continuation - Site Selection and Installation, Seismometers, Acquisition Systems, Communication Systems	L	Dr. Peter Davis
	15:30	0:30	Break		
	16:00	1:30	Real Time Data Techniques	L	Mr. Rick Benson
			SeedLink real time streams the IRIS turnkey SeedLink server		
			Sources of data - specific solutions Earthworm, Antelope, CD1.x, Reftek, Quanterra, Guralp, Nanometrics Seisan		
	17:30	0:30	Use of MUSTANG at the IDA Data Collection Center	L	Peter Davis
	18:00		Adjourn		

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10-Sep-2015	Thursday	DURATION		
	9:00	0:30	Understanding SEED Headers	L Tim Ahern
	9:30	1:00	Station Metadata: What you'll need	L Dr. Mary Templeton
	10:30	0:30	Break	
	11:00	0:20	Station Metadata: NRL	L Mary Templeton
	11:20	1:10	Building Station Metadata using PDCC	C Mary Templeton
	12:30	1:30	Lunch	
	14:00	1:30	Classroom Practice	C
	15:30	0:30	Building Network Metadata using PDCC	L Mary Templeton
	16:00	0:30	cloning stations Classroom practice using spreadsheets	C
	16:30	0:30	Questions about the days material	C - L Mary Templeton
	17:00	1:00	Network Reports	L Participants
			Vietnam	1 Dinh Quoc Van
			Uzbekistan	2 Jasur Yuldashev
			Timor-Leste	3 Eugenio Soares
			China	4 Zheng Xuifen
	18:00		Adjourn	

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11-Sep-2015	Friday	DURATION		
8:30	0:30	Working with the IRIS DMC The goal - a unified data set to use in ASI Data Ingestion Data Curation Data Distribution email based real time data web services	L	Tim Ahern Tim Ahern Rick Benson Rick Benson Rick Benson Tim Ahern
9:00	0:45	Network Reports Taiwan-BATS Taiwan- CWB Thailand -RIMES	L	Participants
9:45	0:20	Usage Reports	5	Min-Hung Shih
10:05	0:40	Data Products	6	Yi-Jing Lo
			7	Niraj Shjaky
			L	Tim Ahern
			L	Tim Ahern
10:45	0:30	Break		
11:15	1:00	Requesting a standardized data set for the FDSN Network	C	Rick Benson
12:15	1:15	Lunch		
13:30	0:45	Network Reports Papua New Guinea Pakistan-MSSP Nepal	L	Participants
			8	Matthew Moihoi
			9	Waqas Ali
			10	Bharat Prasad Koirala/ Mukunda Bhattarai
14:15	2:00	Tools for Analyzing Data An introduction to Python	L	Prof. Joachim Wassermann
16:15	0:30	Break		
16:45	1:00	Tools for Analyzing Data ObsPy	L	Joachim Wassermann
17:45	0:45	Network Reports Myanmar Maldives Malaysia	11	Yin Myo Min Htwe/Zaw Min
			12	Moosa Saeed
			13	Ahmad Rifaie
18:30		Adjourn		

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12-Sep-2015	Saturday	DURATION		
	8:30	2:00	ObsPy Continued	L Joachim Wassermann
	10:30	0:30	Break	
	11:00	1:00	ObsPy Continued	L Joachim Wassermann
	12:00	1:30	Lunch	
	13:30	2:00	ObsPy - Question and Answer	L Joachim Wassermann
	15:30	0:30	Break	
	16:00	2:00	Network Operating and Analysis Systems An Introduction to SeisComp3	L Dr. Bernd Weber
	18:00		Adjourn	

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13-Sep-2015	Sunday	DURATION		
		Visit to Seismic Stations and Institute of Geophysics		
	8:00	2:00	SeisComp3 continued	C Dr. Bernd Weber
	10:00	0:30	Introduction to Institute of Geophysics (IGP)	Director Nguyen Xuan Anh, IGP
	10:30	0:30	Board Buses to IGP	
	11:00	1:30	Tour of Institute of Geophysics	
	12:30	1:30	Lunch at Institute of Geophysics	
	14:00	0:30	Group Photo at IGP	
	14:30	1:00	Visit Earthquake Information and Tsunami Warning Center	
	15:30	2:00	Visit Vietnam National Ethnic Museum	
	17:30	0:30	Dinner at the "Yacht"	

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14-Sep-2015	Monday	DURATION		
	8:30	2:00	Seismic Analysis Systems SeisComp3	L Dr. Bernd Weber
	10:30	0:30	Break	
	11:00	1:00	Scientific Uses of Modern Seismological Data The role of quantitative seismology in real-time and deferred tsunami studies.	L Dr. Emile Okal
	12:00	1:30	Lunch	
	13:30	2:00	SeisComp3 Continued	L Bernd Weber
	15:30	0:15	Break	
	15:45	1:00	SeisComp3 Continued	L Bernd Weber
	16:45	1:00	SeisComp3 Questions and Answers	L Bernd Weber
	17:45		Adjourn	

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15-Sep-2015	Tuesday	DURATION		
	8:30	1:30	Extra-curricular geophysics (or when instruments pick up signals they were NOT designed to record)	L Emile Okal
	10:00	0:30	Network Reports Kyrgystan-CAIAG Kyrgystan-KIS	L Participants 14 Azamat Sharshebaev 15 Anna Berezina
	10:30	0:30	Break	
	11:00	0:30	Kazakhstan Indonesia	16 Inna Sokolova 17 Setyoajie Prayoedhie
	11:30	0:30	Introduction to MUSTANG - improved quality control for seismic networks	L Tim Ahern
	12:00	1:30	Lunch	
	13:30	0:30	MUSTANG Continued	L Tim Ahern
	14:00	0:45	Exercising MUSTANG LASSO MUSTANG Databrowser	L Mary Templeton L Tim Ahern
	14:45	0:30	Break	
	15:15	1:00	Higher Level Clients to Leverage MUSTANG metrics	L Mary Templeton
	16:15	0:45	Pakistan-PMD Bhutan Bangladesh	18 Nasir Mahmood 19 Ugyen Dorji/Tashi Lhamo 20 Mohamaed Kabir
	17:00	0:45	Wrapup and time to Fill out Data Workshop Survey	Ahern
	17:45		Adjourn	
	19:00		Farewell Dinner Presentation of Certificates	Hosted by IRIS at Silk Path Hotel

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16-Sep-2015	Wednesday	DURATION	Advanced Studies Workshop Begins	L=LECTURE C=COMPUTER LAB - Exercise
			ADVANCED STUDIES IN OPERATIONAL USE OF NETWORK DATA 16-17 SEPTEMBER 2015	
	8:30	0:30	Welcome and Introductions Dr. Tim Ahern Purpose of the ASI, Introduction of lecturers, description of and assignments to groups	
	9:00	1:00	Setting up computers and installing Software	
	10:00	0:30	Break	
	10:30	0:45	Group 1&2 Overview of Double Difference Earthquake Location	L Dr. Felix Waldhauser
	11:15	0:45	Group 1&2 Overview of Moment Tensor Inversion	L Dr. Rober Herrmann
	12:00	1:00	Lunch	
	13:00	1:30	Group 1 Introduction to HypoDD Software Group 2 Introduction to MT software	L Felix Waldhauser L Robert Herrmann
	14:30	0:30	Break	
	15:00	2:00	Group 1 Tutorial and exercises Group 2 MT - Setup and regional earthquake inversion	C Felix Waldhauser C Robert Herrmann
	17:00		Adjourn	

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17-Sep-2015	Thursday	DURATION	Advanced Studies Workshop Begins				
			ADVANCED STUDIES IN OPERATIONAL USE OF NETWORK DATA				
	8:30	1:30	Group 1 Group 2	Real Time double-differencing seismic monitoring Teleseism inversion	L L	Felix Waldhauser Robert Herrmann	
	10:00	0:30	Break				
	10:30	1:30	Group 1 Group 2	Demonstration of software DD-RT Seismic Network quality control	C C	Felix Waldhauser Robert Herrmann	
	12:00	1:00	Lunch				
	13:00	2:00	Group 1 Group 2	HypoDD - exercises using data from participants Seismology codes for use with regional networks	C C	Felix Waldhauser Robert Herrmann	
	15:00	0:30	Break				
	15:30	1:30	Both Groups	Research roundable, operations and open questions	L	Group	
	17:00	0:30		Fill out ASI Survey			
	17:30		Adjourn				