

CEOS SAR CAL/VAL WORKSHOP PROGRAM

11/16/09

Day 1 (Nov. 17)	Time	Title	Author	Affiliation
	7:45 - 8:00	<i>Registration</i>		
	8:30 - 8:50	<i>Opening Remarks</i>	Paul Rosen, Yunling Lou	JPL
	8:50 - 9:10	DESDynI Mission Overview	Paul Rosen	JPL
		Session 1	Ongoing Missions	
1	9:10 - 9:30	TerraSAR-X Calibration Status - 2 Years in Flight	Dirk Schrank ; Marco Schwerdt; Markus Bachmann; Björn J. Döring; Clemens Schulz	DLR
2	9:30 - 9:50	TanDEM-X: Mission Overview and Status	Manfred Zink; Gerhard Krieger; Hauke Fiedler; Alberto Moreira; Björn J. Döring	DLR
3	9:50 - 10:10	Comparison of Sentinel-1 and TerraSAR-X TOPS Processor Implementations based on Simulated Data	Josef Hermann Martin Mittermayer; Davide D'Aria ; Evert Attema; Andrea Monti Guarnieri; Riccardo Piantanida; Pau Prats; Stefan Sauer; Paul Snoeij	DLR, Aresys , Politecnico di Milano, ESA
	10:10 - 10:25	<i>Break</i>		
4	10:25 - 10:45	Canadian Government Calibration Operations: The 13-year SAR Performance History of RADARSAT-1, and Independent RADARSAT-2 SAR Quality Measurements	Satish K Srivastava; Stephane Cote ; Stephanie Muir; Bob Hawkins	CSA
5	10:45 - 11:05	Canadian Government Calibration Operations: Exploitation of Distributed Target Sites within the RADARSAT Program	Stephane Cote ; Stephanie Muir; Satish K Srivastava; Tom I Lukowski	CSA
6	11:05 - 11:25	Investigating the Performance of the RADARSAT Precision Transponders	Bob Hawkins ; Satish K Srivastava; Lana Ikkers; Peter Hoang; Kevin Murnaghan; Benjamin Nicholls	CCRS, CSA
7	11:25 - 11:45	RADARSAT-2 Image Quality and Mode Maintenance and Enhancement	Anthony P. Luscombe	MDA
8	11:45 - 12:05	Performance of PALSAR sensor onboard ALOS: Towards the retrieval of bio-and geo-physical parameters	Nicolas Longépé , Masanobu Shimada, Osamu Isoguchi, Preesan Rakwatin, Takeo Tadono	JAXA
	12:05 - 1:30	<i>Lunch</i>		
		Session 2	Calibration Techniques	
1	1:30 - 1:50	GMES Sentinel-1 Transponder Development	Paul Snoeij ; Evert Attema; Bjorn Rommen; Nicolas Floury; Malcolm Davidson	ESA
2	1:50 - 2:10	Local Incidence Angle Considered Harmful	David Small ; Nuno Miranda; Erich H. Meier	U. of Zurich, ESRIN
3	2:10 - 2:30	TSP-2 Solving the Radar Target Pointing Problem	Bob Hawkins ; Jack Gibson; Luke Yaraskavitch; Kevin Marshall	CCRS
4	2:30 - 2:50	Radiometric calibration aided by permanent scatterer: current status and future capabilities	Davide D'Aria; Andrea Monti Guarnieri; Paul Snoeij; Betlem Rosich; Davide Giudici ; Paolo Biancardi	Aresys, ESA
5	2:50 - 3:10	Ionospheric monitoring using quad-pol and dual-pol SAR	Ray Wilson	ASF
6	3:10 - 3:30	Recent calibration/validation activities at the Harvard Forest in support of the DESDynI mission	Paul Siqueira ; Razi Ahmed	U. of Massachusetts
	3:30 - 3:40	<i>Break</i>		
		Session 3	Airborne Radars	
1	3:40 - 4:00	Environmental Science Combining Data from a Small SAR on an Unmanned Aircraft with Satellite Observations: The microASAR on the NASA SIERRA UAS for the Characterization of Arctic Sea Ice Experiment (CASIE)	Evan C. Zaugg; David G. Long; Matthew Edwards ; Matthew Fladeland; Richard Kolyer; Roger Crocker; James Maslanik; Ute Herzfeld	BYU, ARTEMIS , Ames, U. of Colorado
2	4:00 - 4:20	Country-Wide 3D Mapping by Airborne InSAR	Bryan Mercer	Intermap
3	4:20 - 4:40	GeoSAR Overview	Mark Williams	Earth Data/Fugro
4	4:40 - 5:00	UAVSAR Polarimetric Calibration	Alex Fore ; Bruce Chapman; Scott Hensley; Thierry Michel; Ron Muellerschoen	JPL
5	5:00 - 5:20	UAVSAR Processor Calibration and Quality Assurance	Brian Hawkins ; Bruce Chapman; Cathleen Jones; Scott Hensley; Thierry Michel; Ron Muellerschoen; Yang Zheng	JPL
	5:20 - 5:30	<i>Announcements</i>		

Day 2 (Nov. 18)	Time	Title	Author	Affiliation
6	8:30 - 8:55	Polarimetric calibration of the Ingara bistatic SAR	Alvin Goh; Mark Preiss; Nick Stacy ; Doug Gray	U. of Adelaide, DSTO
		Session 4	Calibration Requirements	
1	8:55 - 9:20	The Source of SAR Calibration Requirements	Evert Attema ; Paul Snoeij; Malcolm Davidson; Nicolas Floury; Bjorn Rommen	ESA
2	9:20 - 9:45	SAR Calibration Requirements for Interferometry Applications: inching towards sub millimeter measurements	Fabio Rocca ; Alessandro Ferretti; Andrea Monti Guarnieri	Politecnico di Milano
3	9:45 - 10:10	Calibration Requirements for Interferometric SAR by Comparison to Lidar in the Frequency Domain	Robert Neil Treuhft ; Fábio Guimarães Gonçalves; Jason Drake; Bruce Chapman; Joao Roberto Dos Santos; Luciano Dutra; Paulo Mauricio de Alencastro Graca	JPL, INPE
	10:10 - 10:25	<i>Break</i>		
4	10:25 - 10:50	Geodetic calibration of repeat-pass InSAR	Howard Zebker; Piyush Shanker	Stanford
5	10:50 - 11:15	SAR Image Quality Measures Relevant for Operational Ship and Oil Spill Detection	Michele Vespe ; Harm Greidanus	JRC
6	11:15 - 11:40	SMAP Calibration Requirements and Level1 Processing	Richard West	JPL
7	11:40 - 12:05	SAR Calibration Requirements for Soil Moisture	Zoltan Bartalis ; Wolfgang Wagner; Vahid Naeimi; Daniel Sabel; Carsten Pathe	Vienna University of Technology
	12:05 - 1:30	<i>Lunch</i>		
		Session 5	Future Missions	
1	1:30 - 1:55	Requirement on Antenna Isolation for operational use of c-band Dual-Polarized SAR IN FUTURE constellation Mission	Ridha Touzi; Paris Vachon; John Wolfe; Bob Hawkins	CCRS
2	1:55 - 2:20	Linking Sentinel-1 Level-1 data quality with Level-2 performance	Malcolm Davidson; Evert Attema; Paul Snoeij ; Nicolas Floury; Bjorn Rommen	ESA
3	2:20 - 2:45	Innovative and Efficient Strategy of Calibrating Sentinel-1	Marco Schwerdt; Björn J. Döring ; Manfred Zink; Dirk Schrank	DLR
4	2:45 - 3:10	The Aquarius mission calibration/validation overview	Adam Freedman ; Dalia McWatters	JPL
	3:10 - 3:30	<i>Break</i>		
5	3:30 - 3:55	SMAP Mission and Cal/Val Approach	Michael Spencer; Richard West	JPL
6	3:55 - 4:20	Recent dramatic advances in developing fully polarimetric space SAR sensors: Why must reduced Compact SAR concepts not be accepted for satellite sensor implementation, and where do we go from here?	Wolfgang Boerner	U. of Chicago
Day 3 (Nov. 19)				
	8:30 - 12:00	<i>Discussion</i>		