

Agenda v1.1: ICGS-SAR Workshop #3

Saga Prefecture, Japan

6-8 November, 2024

Week at a Glance

	Wednesday 6th Nov	Thursday 7th Nov	Friday 8th Nov	Saturday 9th Nov
Morning	Opening Session Status of WGs and TAs Keynote addresses	Commercial discussions TA1 Session	WG Break out sessions Reports by WGs & TAs Discussions, way forward, and closing	10:00 - 11:30 Lecture at the Saga Prefecture Space & Science Museum
Afternoon	Agency Updates	TA2 Session WG Break out sessions	13:00 - 18:00 Cultural Excursion (Optional, 2,000 JPY)	
Evening	Cocktail Reception	Workshop Dinner with Saga Culture		

Day 1: Wednesday, 6th November, 2024

Item	Topic	Presenter <i>*remote</i>	Time (JST)	Duration
Arrival & Registration			8:30	30 min
Session 1: Opening Session				
1.1	Welcome to Saga (Video Message)	Yoshinori Yamaguchi (Saga Prefecture Governor)	09:00	5 min
1.2	Welcome to ICGS-SAR 3rd Workshop	Futoshi Takiguchi (JAXA)	09:05	5 min
1.3	Workshop objectives	Charles Elachi (CalTech)	09:10	5 min
1.4	Report on ICGS-SAR progress	Shinichi Sobue (JAXA)	09:15	15 min
Session 2: Status of Working Groups & Thematic Areas				
2.1	Working Group 1: Present and Future Data	Shinichi Sobue (JAXA)	09:30	10 min
2.2	Working Group 2: Future imaging systems	Paul Rosen (NASA/JPL)	09:40	10 min
2.3	Working Group 3: Data exploration	Laura Frulla (CONAE)*	09:50	10 min

2.4	Thematic Areas 1 & 2: Polarimetric & Interferometric SAR applications	Ake Rosenqvist (JAXA) & Cathleen Jones (NASA/JPL)	10:00	<i>10 min</i>
2.5	Thematic Area 3: Program and Mission Coordination	Gerald Bawden (NASA) & Malcolm Davidson (ESA)	10:10	<i>10 min</i>
Session 4: Space Agency SAR Activities and Plans				
4.1	CONAE	Laura Frulla*	10:20	<i>15 min</i>
Coffee Break			10:35	
Session 3: Keynote Addresses				
3.1	SAR applications using multi frequency and multi polarization (TBD)	Thuy Le Toan	11:00	<i>30 min</i>
3.2	Social Economic usage of SAR and EO missions (TBD)	Shunsuke Managi (Kyushu University)	11:30	<i>30 min</i>
Session 4: Space Agency SAR Activities and Plans (cont.)				
4.2	Collaboration with the Committee on Earth Observation Satellites (CEOS)	Guennadi Kroupnik (CSA CEOS Principal)	12:00	<i>15 min</i>
4.3	CSA	Guennadi Kroupnik	12:15	<i>15 min</i>
4.4	NASA	Gerald Bawden	12:30	<i>15 min</i>
4.5	Discussion	All	12:45	<i>15 min</i>

Group Photo + Lunch Break			13:00	1 hr 15 min
<i>Lunch box provided</i>				
Session 3: Keynote Addresses (cont.)				
3.3	Japanese space policy and SAR satellite constellation (TBD)	Seiko Shirasaka (Keio University)	14:15	30 min
Session 4: Space Agency SAR Activities and Plans (cont.)				
4.6	JAXA	Yoshihisa Arikawa	14:45	15 min
4.7	ESA	Martin Suess	15:00	15 min
4.8	ASI	Francesco Longo	15:15	15 min
Coffee Break			15:30	30 min
4.9	ISRO	Nilesh M. Desai	16:00	15 min
4.10	DLR	Elizabeth Nuncio Quiroz	16:15	15 min
4.11	VNSC	Vu Tuan	16:30	15 min
4.12	Discussion	All	16:45	15 min
Adjourn			17:00	
Cocktail Reception			18:00	2 hr

Day 2: Thursday, 7th November, 2024

Item	Topic	Presenter <i>*remote</i>	Time (JST)	Duration
Session 5: Commercial partnerships				
<i>Specific topics to discuss:</i>				
<ul style="list-style-type: none"> ○ <i>Smart tasking:</i> For MDA and disaster monitoring (such as flood monitoring), wide area observations are needed to identify target areas, which can then be targeted by high resolution satellites. Has your company considered this kind of smart tasking, in cooperation with space agencies? ○ <i>Integrated data use:</i> X-band is very powerful with high spatial resolution and good technology for small and cost-effective satellites. Space agencies have demonstrated the value of using multiple band observations for specific applications. Does your company have any vision to promote this kind of integrated use of multiple frequency SARs in cooperation with governmental agencies? 				
5.1	Introduction & objectives	Shin-ichi Sobue (JAXA)	9:00	5min
5.2	Synspective	Motoyuki Arai	9:05	10 min
5.3	iQPS	Shunsuke Onishi	9:15	10 min
5.4	ICEYE	Makoto Higashi	9:25	10 min
5.5	MELCO	Daisuke Sango (TBD)	9:35	10 min
5.6	NEC	Kenichi Kawasaki	9:45	10 min

5.7	MDA	Minda Suchan	9:55	10 min
5.8	Discussion	All	10:05	15 min
Coffee Break			10:20	20 min
Session 6: Thematic Areas				
6.1	WG2 Analysis	Paul Rosen, Shadi Oveisgharan, Ekaterina Tymofyeyva (NASA JPL) & Stephane Chalifoux (CSA)	10:40	40 min
	<ul style="list-style-type: none"> • L-band Constellation Performance Analysis Results • CSA Multi-mission Planning Tool 			10 min
6.2	TA1: Polarimetric and Multi-frequency SAR Applications	Ake Rosenqvist (JAXA) & Magdalena Fitrzyk (ESA)*	11:30	1 hr 30 min
	<ul style="list-style-type: none"> • Summary of White Paper recommendations by scientific topic <ul style="list-style-type: none"> ○ Forest & Biomass (<i>Paul Siqueira, UMass</i>) (12 min) ○ Wetlands (<i>Ake Rosenqvist, JAXA</i>) (12 min) ○ Agriculture & Crop Mapping (AR for H. McNairn) (12 min) ○ Soil Moisture (<i>Laura Frulla, CONAE</i>)* (12 min) ○ Sea Ice (<i>Malin Johansson, U. Tromsø</i>) (12 min) • Open discussion (30 min) 			
Lunch Break <i>Lunch box provided</i>			13:00	1 hr

6.3	TA2: Interferometric SAR Applications	Cathleen Jones (NASA/JPL) & Björn Rommen (ESA)	14:00	1 hr 30 min
	<ul style="list-style-type: none"> ● Summary of White Paper recommendations by scientific topic <ul style="list-style-type: none"> ○ Ice Sheets and Glaciers (<i>Eric Rignot, UCI</i>) (12 min) ○ Hazards (<i>Tomokazu Kobayashi, GSI</i>) (12 min) ○ Solid Earth (<i>Cathleen Jones</i>) (12 min) ○ Permafrost (<i>Cathleen Jones</i>) (12 min) ○ Ocean (single-pass interferometry), Non zero-baseline InSAR (<i>Björn Rommen</i>) (12 min) ● Open discussion (30 min) 			

Coffee Break		15:30	15 min
Session 7: Working Group Splinter Sessions			1 hr 30 min

WG1: Present & Future Data	
7.1.1 Welcome <i>Shin-ichi Sobue, Guennadi Kroupnik & Nuno Miranda</i>	15:45
7.1.2 Review of outcome from last Workshop <i>Shin-ichi Sobue</i>	15:55
7.1.3 Tasking & Data Sharing Reports (10 min each) <ul style="list-style-type: none"> ● RCM report (<i>Stéphane Chalifoux</i>) ● Copernicus Sentinel-1 report (<i>Nuno Miranda</i>) ● ALOS-2 + S1, RCM, CSK/CSG (<i>Shin-ichi Sobue</i>) 	16:05
7.1.4 Discussion	16:45

WG2: Future Imaging Systems	
7.2.1 Welcome <i>Paul Rosen, Martin Suess</i>	15:45
7.2.2 Recap of L-band study by JPL <i>Paul Rosen</i> (30 min presentation + 15 min discussion)	16:00
7.2.3 Recap of the CSA planning tool <i>Stéphane Chalifoux</i> (5 min presentation + 10 min discussion)	16:45
7.2.4 Performance tool inputs and optimisation criteria	17:00

Adjourn		17:30	
Hosted Dinner with Saga Culture		18:00	2 hr

Day 3: Friday, 8th November, 2024

Item	Topic	Presenter <i>*remote</i>	Time (JST)	Duration
Session 7: Working Group Splinter Sessions (cont.)				<i>1 hr 30 min</i>

WG1: Present & Future Data	
7.1.5 Ideas and requests for the virtual constellation <ul style="list-style-type: none"> • Commercial partner requests and contributions: Smart tasking for Disaster in Japan (SDS), Synspcitive, iQPS, etc. • Core users' requirement comments: GSI, JMA-MRI (online) • Iteration with TA1&2 	9:00
7.1.6 Discussion and coordination of future work plan	9:45

WG2: Future Imaging Systems	
7.2.5 Conclusion for coordination strategies between future SAR systems	09:00
7.2.6 Review of last workshop observations <ul style="list-style-type: none"> • Discussion of WG2 recommendations 	09:45

Coffee Break			10:00	20 min
Session 8: Working Group & Thematic Area Summary Reports				
8.1	WG 1: Present and Future Data	Shinichi Sobue (JAXA)	10:20	15 min
8.2	WG 2: Future imaging systems	Paul Rosen (NASA/JPL)	10:35	15 min

8.3	TA1: Polarimetric and Multi-frequency SAR Applications	Ake Rosenqvist (JAXA)	10:50	10 min
8.4	TA2: Interferometric SAR Applications	Cathleen Jones (NASA/JPL)	11:00	10 min
Session 9: Closing Session				
9.1	Coordination of spaceborne SAR Missions: Next steps and way forward	Shinichi Sobue (JAXA), Charles Elachi (CalTech)	11:20	30 min
9.3	Closing remarks	Shinichi Sobue (JAXA)	11:50	10 min
Lunch Break <i>Lunch box provided</i>			12:00	1 hr
Cultural Excursion <i>(Optional, 2,000 JPY per person)</i> <i>Includes: Shrine, Sake factory, and more.</i> <i>Return to Hotels at 18:00.</i>			13:00	5 hrs

Day 4: Saturday, 9th November, 2024

Charles Elachi (CalTech) and Shin-ichi Sobue (JAXA) will deliver a lecture at the Saga Prefecture Space & Science Museum in Takeo to high school students and local governmental officers. All workshop participants are welcome to join the discussion and explore the museum. Transportation will be provided from Ureshino to the Museum.

The lecture will be from 10:00 - 11:30. The bus will leave around 9:00 from the hotel, and return about 12:30.