

Seasar2023 Workshop-

Longyearbyen, 2-6 May 2023



Welcoming Words

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→ THE EUROPEAN SPACE AGENCY

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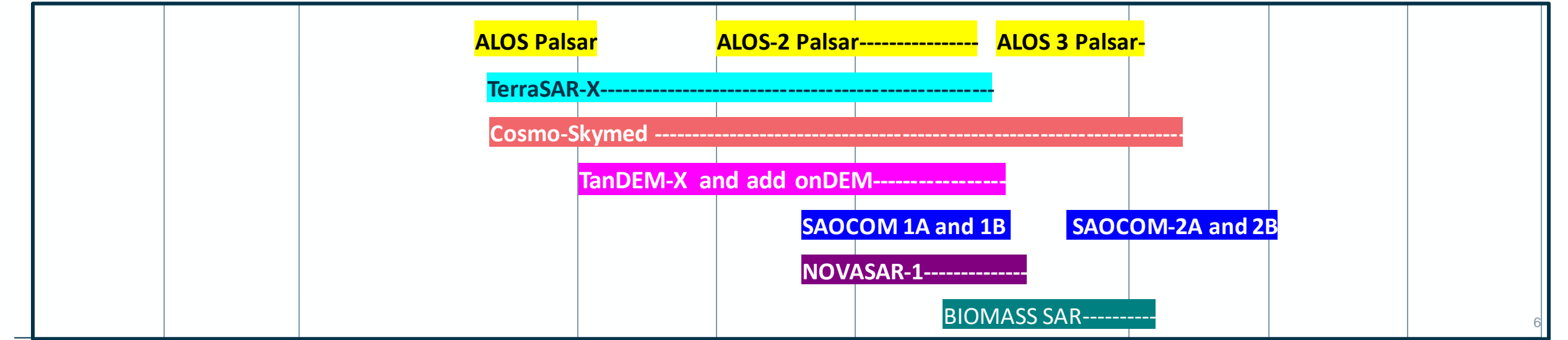
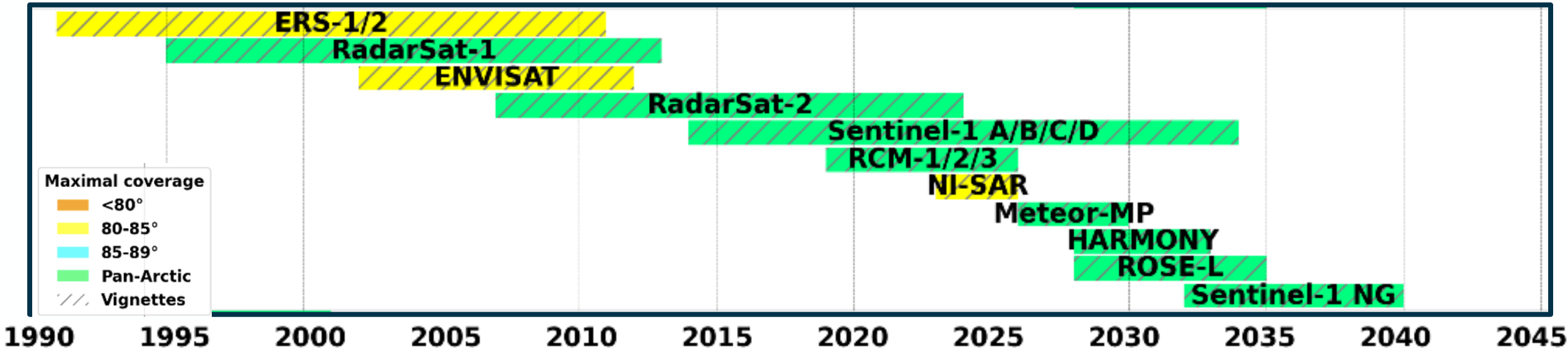
- IT IS VERY GOOD TO SEE YOU UP HERE IN THE HIGH NORTH – THANKS FOR COMING
- WE ALSO MISS MANY
- THE OPPORTUNITY TO HAVE THESE REGULAR SAR-FOCUSED WORKSHOPS ARE CLEARLY IMPORTANT
- IT STRENGTHEN NETWORK, CREATES NEW NETWORK AND BUILDS FRIENDSHIP
- YOUNGER CAREER DEVELOPING SCIENTISTS CAN MEET OLDER EXPERT SCIENTIST (2-WAY BENEFIT!)
- NOVEL ASPECTS OF SAR-BASED RESEARCH AND APPLICATION CAN BE PRESENTED AND DISCUSSED
- THE SPACE AGENCY HOPEFULLY LISTEN TO OUR OUTCOME AND RECOMMENDATION
- WE MAY STIMULATE MORE CURIOSITY DRIVEN INTEREST & RESEARCH IN SPACEBORNE SAR



- **Coastal and Marine Applications of SAR (Svalbard, Norway, Sept. 2003)**
- **Seasar2006 (Frascati, Italy, January 2006)**
- **OceanSAR (St. Johns, Canada, October 2006)**
- **Seasar2010 (Frascati, Italy, January 2010)**
- **Seasar2012 (Tromsø, Norway, June 2012)**
- **Seasar2018 (Frascati, Italy, May 2018)**
- **Seasar2023 (Svalbard, Norway, May 2023)**

Satellite SAR: Past-Present-Future

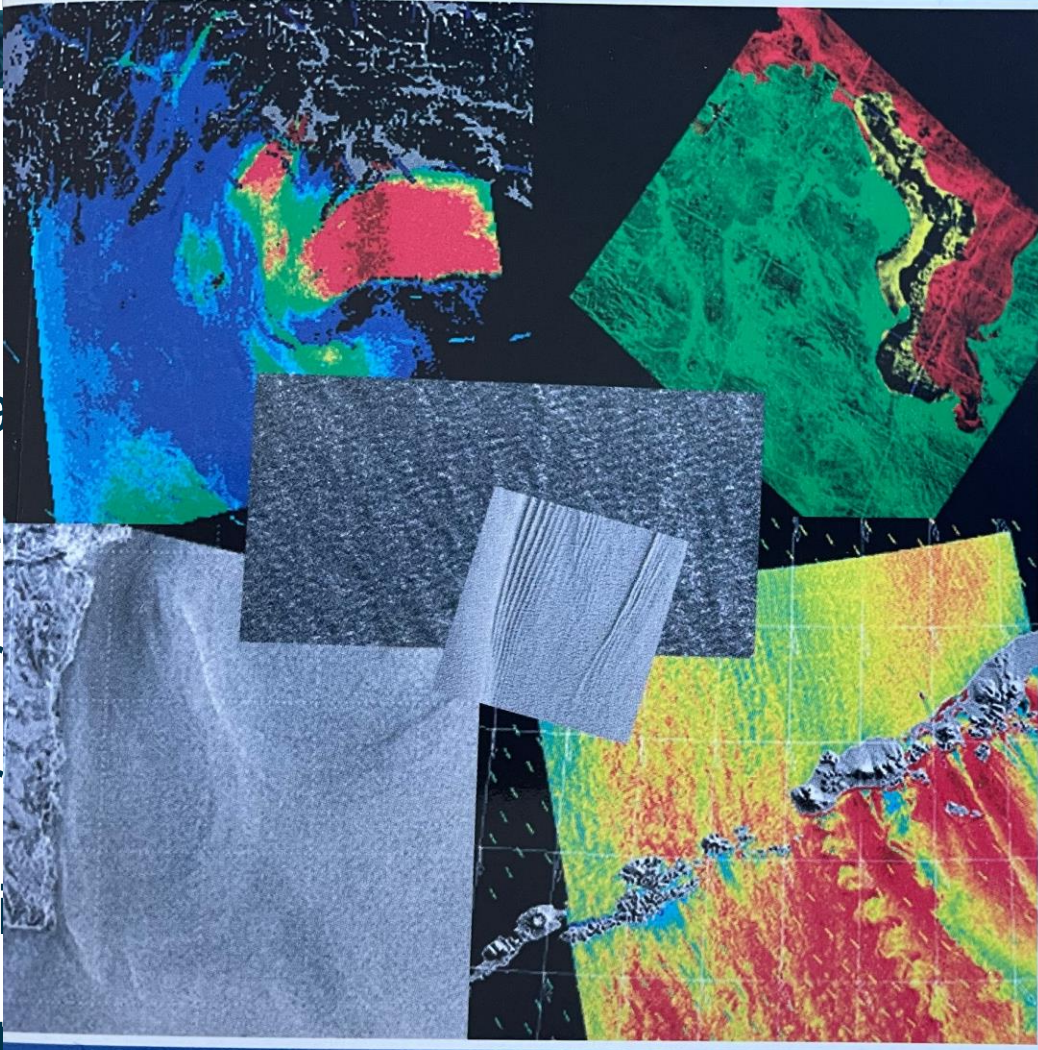
In total 75 missions (ref CEOS)



- 8 themes for plenary and panel presentations and discussion
- Co-chairs for each theme will organize the presentations and discussion
- Theme White papers will be written
- Seasar2023 Proceedings will be delivered
- Seasar2023 Recommendation highly relevant for ESA strategy
- Collection of back-to-back papers in peer review journal is a major aim
- Reference documents for next generation of SAR expert scientist

Proceedings of the Second
Workshop

Coastal and Marine Applications of SAR



8 - 12 September 2003
Svalbard, Norway



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- **Wave retrievals** (Fabrice Collard, Harald Johnsen, Marcel Kleinherenbrink, Fransisco Ocampo-Torres)
- **Near Surface Wind Retrievals and detection of Extremes** (Doug Vandemark, Romain Husson, *Alex Mouche, William Perrie, Ad Stoffelan, Marcos Portabella*)
- **Doppler shift retrievals** (Paco Lopez-Dekker, Artem Moiseev, Roland Romeiser)
- **Sea ice retrievals** (Anton Korosov, Malin Johansson, Robert Shuchman, *Wolfgang Dierking, Ron Kwok*)
- **Sensor Synergy** (Ben Holt, Bertrand Chapron, Johnny A. Johannessen, Fabrice Collard, *Lucile Gaultier*)
- **Methodology and techniques** (Justin Stopa, Ralph Foster)
- **Applications** (oil spill detection, ship detection, ship routing in the Arctic) (Cathleen Jones, Ben Holt, *Michaela Corvino*)
- **Future missions** (Craig Donlon, Alejandro Egido, *Christine Gommenginger, Yves-Louis Desnos*)

- **Key objectives**
- **Innovation (new findings and achievements)**
- **Remaining knowledge gaps and deficiencies**
- **Outlook and recommendation**
 - **bigger-picture view of what is missing**
 - **specific actions / experiments / instruments / missions**