



WOSMIP-8 OVERVIEW

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Workshop on Signatures of
Man-made Isotope Production



The views expressed in this presentation do not necessarily reflect those of the United States, the US Department of Energy, or the Pacific Northwest National Laboratory



Thank you!

- ▶ A special thank you to
 - FOI
 - Scienta
 - ISTI
 - The CTBTO Preparatory Commission (PrepCom)
 - The US Department of Energy

Fun Fact. These are the major cities the furthest from Stockholm.

Furthest Cities (Population 1,000,000+)

City	Distance, km
Auckland, New Zealand	16,999
Melbourne, Australia	15,588
Sydney, Australia	15,586
Brisbane, Australia	15,089
Adelaide, Australia	14,980

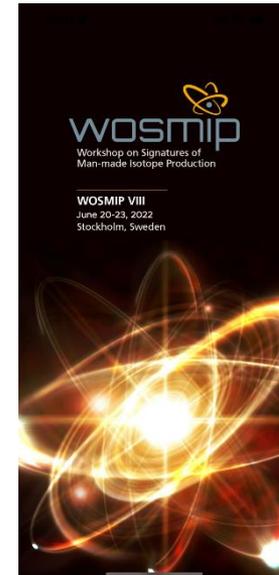


Welcome back

- ▶ WOSMIP Remote and WOSMIP Remote 2 were great, but all remote workshops lack needed spontaneous and informal discussions, creative idea generation and frank opinions are difficult to voice
- ▶ WOSMIP-8 is our first in-person opportunity in quite a while for science-based discussions, trading of ideas, and presentation of results of work done over the last few years
- ▶ Introducing the new WOSTER best poster award
 - Please take time to vote for the best poster noting
 - Best = Best R&D, activity, or development that furthers the mitigation, signatures, or understanding of isotope production in the environment
 - Each person gets three votes and the poster with the highest tally wins the coveted WOSTER Medal

References

- ▶ See www.wosmip.org (new context and links to presentations)
- ▶ Also, if you haven't downloaded it, try the WOSMIP App (see our conference coordinators if you haven't been given a password, or need assistance)
 - Agenda, maps, chat function, etc.





Relevant current events

- ▶ STAX and other stack monitoring underway
- ▶ The IMS operation of RN stations
- ▶ ATM challenges and XeBET (background estimator tool)
- ▶ On-going regional measurements in the Ro5
- ▶ Background measurements in Japan and the UK



The WOSMIP Workshop

- ▶ WOSMIP was designed with the following in mind:
 - Allow for open discussion of issues among the participants on issues affecting the airborne concentration of isotopes in the environment
 - Encourage engagement between two distinct communities whose work overlaps
 - Discuss creative solutions to mitigate the effect of emissions on nuclear explosion monitoring
 - Allow for collaborative engagement with peers on issues of importance to them



WOSMIP-8 at a glance

- ▶ Monday
 - Introductions
 - Background measurements
 - ROUNDTABLE DISCUSSION
 - Poster session 1 and reception at 6PM

- ▶ Tuesday
 - Stack monitoring and measurement equipment
 - ROUNDTABLE DISCUSSIONS
 - Conference dinner at 6PM

- ▶ Wednesday
 - Tour of Scienta Sensor Systems in Uppsala (buses)
 - Poster session 2 and reception immediately after return ~4PM

- ▶ Thursday
 - Atmospheric transport modeling
 - ROUNDTABLE DISCUSSION
 - The *WOSTER* best poster award (Based on your voting!)
 - WOZZIE

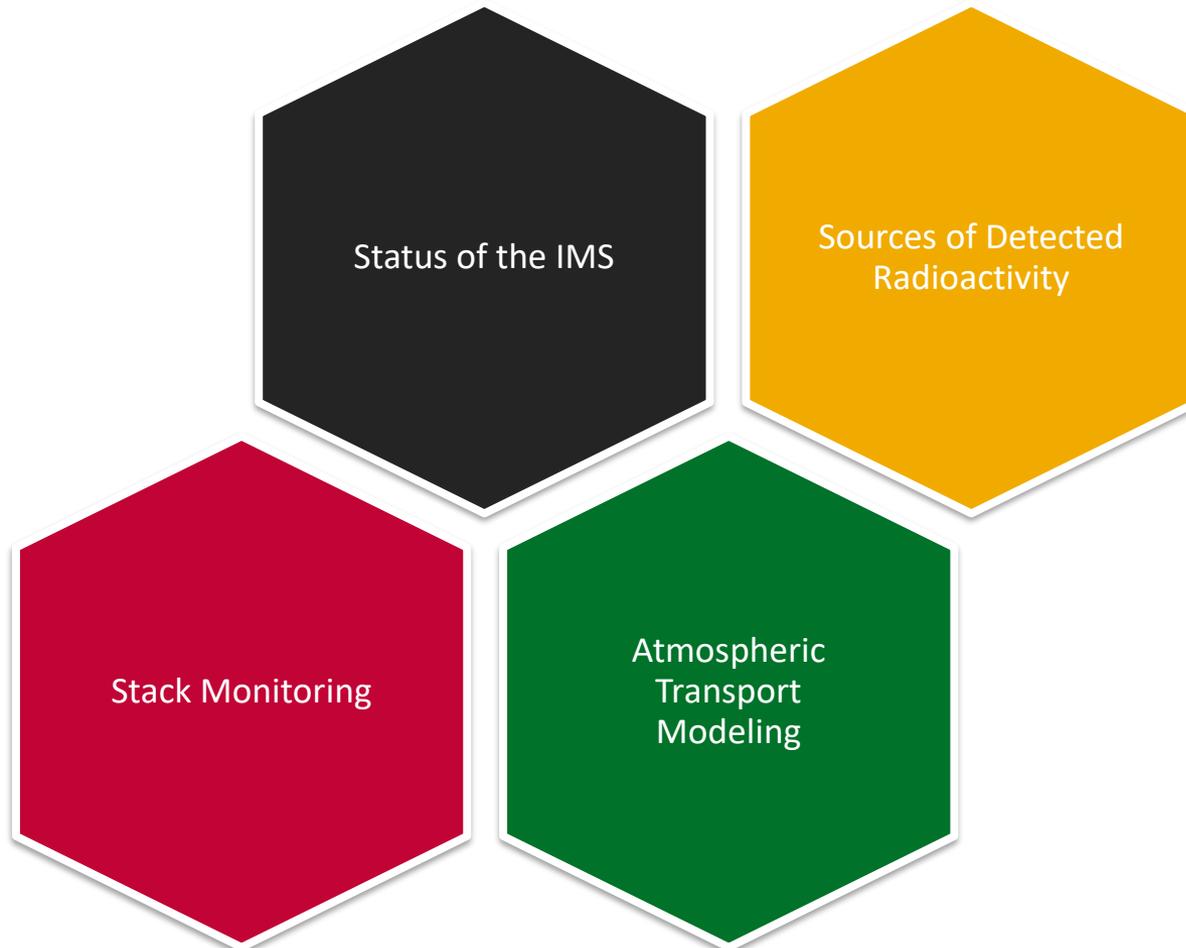


The Big Picture

- ▶ Policy discussions in Vienna have been useful to understand a number of views on the subject of emissions from isotope production
- ▶ The impact of emissions from man-made sources on nuclear explosion monitoring continues to dominate the worries of policy makers in the PrepCom in Vienna
- ▶ The International Monitoring System sees the effects of emissions from isotope production essentially “every day”



WOSMIP-8 focus areas

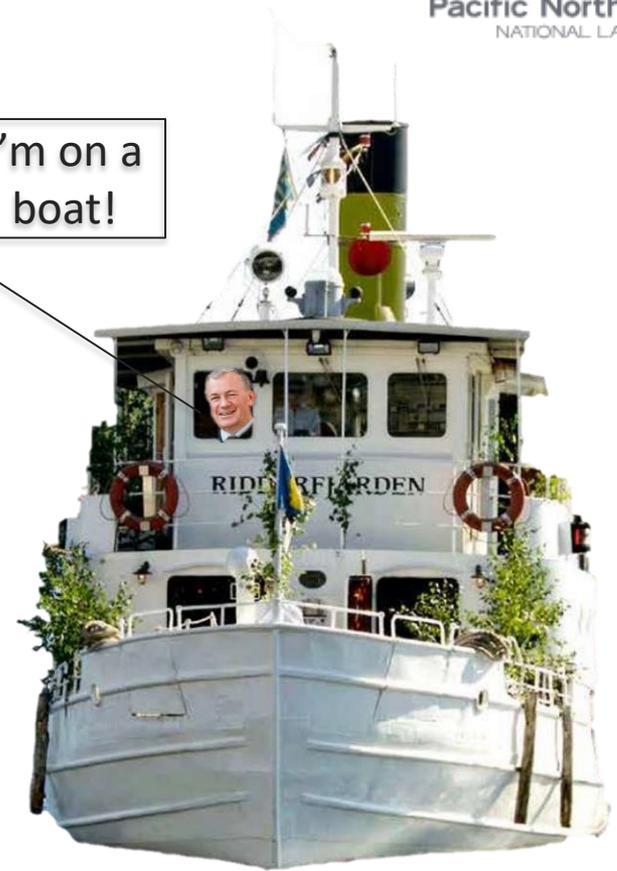




Conference Dinner

- ▶ Tuesday night
- ▶ Hosted by FOI and CTBTO Prepcom
- ▶ The Riddarjäden
 - All registered WOSMIP participants are welcome
 - Please confirm attendance with our conference staff so that the spot might be used for someone else

I'm on a boat!





Poster sessions

- ▶ Monday
 - Poster session 1
 - With a reception hosted by PNNL

- ▶ Wednesday
 - Poster session 2
 - With a reception hosted by ISTI





Tour of Scienta Sensor Systems

- ▶ Wednesday
 - Lunch will be served
 - A demonstration of the STAX software will be given by ISTI
- ▶ Please see your agenda for times
 - We will board buses and return at approximately 3PM
- ▶ Following the tour there will be a reception and Poster session 2 hosted by ISTI





WOSMIP-7

WOSMIP Remote

WOSMIP Remote 2





Takeaways from last WOSMIP

- ▶ We didn't have enough time to talk (and the global pandemic) hasn't helped
 - We have tried to address that with four roundtable discussions
 - The poster sessions will be great! Approximately 40 posters



WOSMIP - 8



Sponsors





The WOZZIE

- ▶ WOZZIE-7 was awarded to Anders Ringbom for his pioneering and exquisite work in sensitive xenon monitoring
- ▶ WOZZIE-8 will be presented on Thursday afternoon!





Where is the next WOSMIP?

- ▶ We rely on our friends and partners to host these
- ▶ If your organization is interested in hosting, please contact the organizers



In Summary

- ▶ We hope to have spirited discussions
- ▶ Remember – the social events are meant to allow for discussions on any topics you feel worth the time
- ▶ We thank our sponsors for making this workshop possible and we look forward to interesting discussions