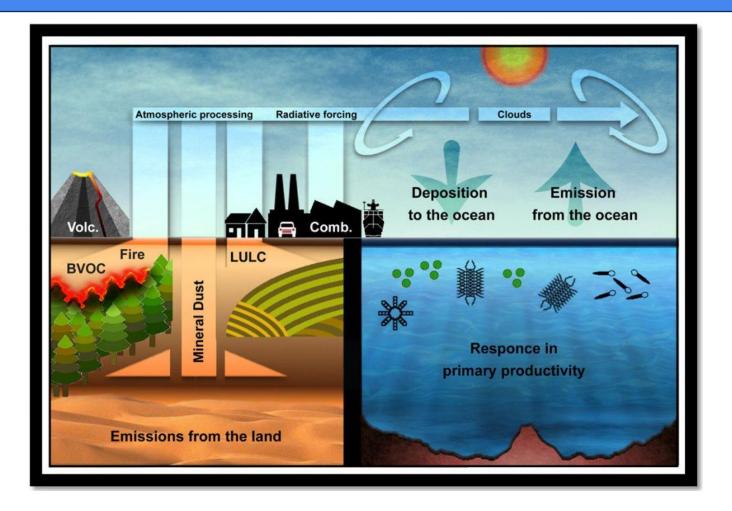
Working Group 167 - RUSTED

Reducing Uncertainty in Soluble aerosol Trace Element Deposition

Douglas S. Hamilton, Akinori Ito, Morgane M.G. Perron, (Rachel Shelley)





Reducing Uncertainty in Soluble aerosol Trace Element Deposition

Presentation

Outreach

Work in progress

ToR 1

ToRs

ERMS

Literature: Identify knowledge gaps in linking aerosol geochemistry with micronutrients solubility in the ocean

ToR 2

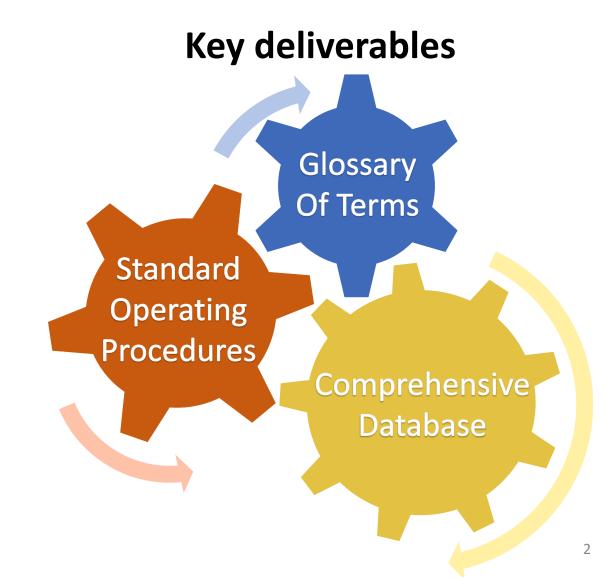
Assessment : Aerosol trace element solubility protocol intercomparison study

ToR 3

Tools and chemical tracers to better understand aerosol Fe solubility

Tor 4

Numerical Models : from data incorporation to informing future studies





Outreach

Work in progress

Full Members

Name	Gender	ECR	Affiliation
Douglas Hamilton	N/Binary	Yes	North Carolina State University
Morgane Perron	F	Yes	LEMAR
Akinoro Ito	M	No	JAMSTEC
Hind Al-Abadleh	F	No	Wilfred Laurier University
Tung-Yuan Ho	M	No	Academia Sinica
Diego Gaiero	М	No	National University of Cordoba
Cassie Gaston	F	Yes	RSMAS/University of Miami
Ashwini Kumar	М	No	CSIR-National Institute of Oceanography
Ying Ye	F	Yes	Alfred Wegener Institute
Mingjin Tang	M	No	GIGCAS
Rachel Shelley	F	No	University of East Anglia

Associate Members

Name	Gender	ECR	Affiliation
Holly Winton	F	Yes	Victoria University of Wellington
Andrew Wozniak	M	No	University of Delaware
Joo-Eun Yoon	F	Yes	University of Cambridge
Yeala Shaked	F	No	Hebrew University of Jerusalem
Nicholas Meskhidze	M	No	North Carolina State University
Peter Croot	M	No	Irish National University, Galway
Cecile Guieu	F	No	LOV
Susanne Fietz	F	No	Stellenbosch University
Andy Bowie	M	No	University of Tasmania
Alex Baker	M	No	University of East Anglia

15 countries - 35% ECR - 45% women

Referee: Marie-Alexandrine Sicre



2024 organisation into subgroups:

Member	Database	Review	Modelling	ECR workshop
Morgane		Х	Х	Х
Douglas	X		X	X
Akinori	X	X	X	X
Hind		X		
Tung-Yuan			X	
Diego		X		
Cassie			X	
Mingjin		X		
Ashwini		X	X	X
Ying			X	X
Holly		X	X	
Andrew		X		
Joo-Eun			X	
Yeala		X		
Nicholas	X			X
Peter	x	X		
Cecile		X	Х	
Susanne			x	X
Andy		X		X
Alex	x	Х	Х	



Outreach

Work in progress

• RUSTED member meetings

- All hands : 2 virtual
- Co-chairs : monthly communication + 2 virtual
- Subgroups : 3 virtual + 2 onsite (AGU 2023, Goldschmidt 2024)

RUSTED second annual hybrid meeting

SCOR funding used to support onsite participation of working group members.

RUSTED outreach

- . RUSTED Special Issue : 7 papers submitted
- . SOLAS Open Science Conference

November 2024, India: 1 Discussion, 1 Poster

. SOLAS ECR workshop





Outreach

Work in progress

RUSTED Activities

Inter-Comparison

Mingjin T.

All data received: Feb 24

Statistical analysis done

Data interpretation - Ms outline



Outreach

Work in progress

RUSTED Activities

Inter-Comparison

Mingjin T.

All data received: Feb 24

Statistical analysis: Sept 24

Data interpretation - Ms outline

Database

Douglas H. / Alex B.

Which repository?

Collaborative work?



Outreach

Work in progress

RUSTED Activities

Inter-Comparison

Mingjin T.

All data received: Feb 24

Statistical analysis: Sept 24

Data interpretation - Ms outline

Database

Douglas H. / Alex B.

Which repository?

Collaborative work

Capacity building

Ashwini K. / Nicholas M.

ECR workshop

Funding





Outreach

Work in progress

RUSTED Activities

Inter-Comparison

Mingjin T.

All data received : Feb 24

Statistical analysis:
Sept 24

Data interpretation - Ms outline

Database

Douglas H. / Alex B.

Which repository?

Collaborative work

Capacity building

Ashwini K. / Nicholas M.

ECR workshop

Funding

Literature Review

Morgane P.

Review

Impact on modelling

Manuscript



Outreach

Work in progress

RUSTED Activities

Inter-Comparison

Mingjin T.

All data received : Feb 24

Statistical analysis:
Sept 24

Data interpretation - Ms outline

Database

Douglas H. / Alex B.

Which repository?

Collaborative work

Capacity building

Ashwini K. / Nicholas M.

ECR workshop

Funding

Literature Review

Morgane P.

Review

Impact on models

Manuscript

Modelling

Akinori I.

Preliminary discussions

Meeting planned



Outreach

Work in progress

Literature Review

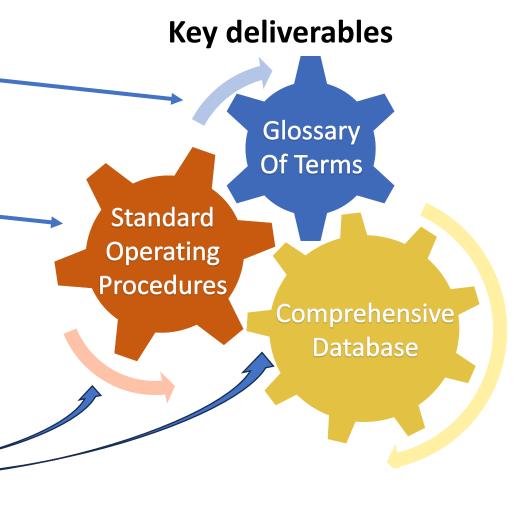
- Review paper manuscript being drafted

Inter-comparison study

- Data interpretation
- Manuscript drafting
- SOPs

Capacity building

- RUSTED ECR workshop (Goa, November 2024)
- Special Issue in Copernicus journals (ongoing)
- Research workshop in Asheville, USA



The RUSTED Working Group 167 is deeply grateful for SCOR support since October 2022.

Thank you