

EMEP and OSPAR collaboration

Adaptation of EMEP data products for OSPAR's needs

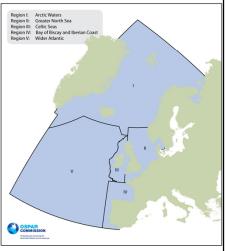
3rd Joint Session of the Steering Body to EMEP and the Working Group on Effects
Outreach efforts, information sharing and cooperation with other organisations & programmes
Geneva, 11–15 September
Dr Jo Foden



OSPAR

Activities

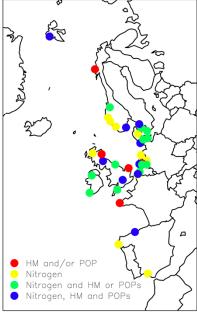
- Monitoring
- Assessment
- Programmes of measures
- EU MSFD regional implementation
- Collaboration between Regional Seas Conventions
- OSPAR Contracting Parties are also members of EMEP





OSPAR monitoring & products

OSPAR's Comprehensive Atmospheric Monitoring Programme (CAMP)



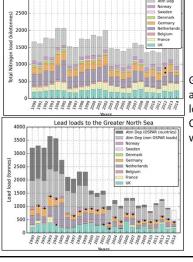
Monitoring locations (map) and components measured (table)

P Cd	DI- III- NI	A C C 7 DALL
Precipitation	, Pb, Hg, Ni I ₄ +, NO ₃ -	As, Cr, Cu, Zn, PAHs For quality control: pH, Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺ , SO ₄ ²⁻ , Cl ⁻ , NH ₄ ⁺ , NO ₃ ⁻
g N⊦	O ₂ , HNO ₃ , NH ₃ , H ₄ ⁺ , NO ₃ ^{-1),} Cd, , Ni	Hg _{(g),} PCBs

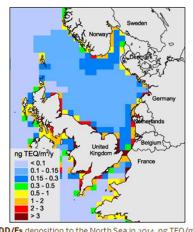


EMEP monitoring & products

- OSPAR uses EMEP products in load calculations
- EMEP routine products don't match OSPAR boundaries
- Tailored products can inform mitigation measures





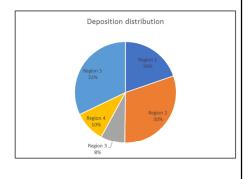


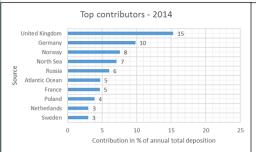
PCDD/Fs deposition to the North Sea in 2014, ng TEQ/m²/y

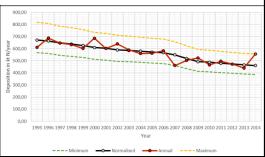


EMEP products for OSPAR

- Greater North Sea area to include the Kattegat and The Sound
- Annual atmospheric deposition to:
 - each OSPAR Region
 - national EEZs in each OSPAR Region
- Source-receptor matrices
- Routine weather-normalised deposition estimates
- Effects of the Gothenburg Protocol









EMEP and OSPAR collaboration summary

- OSPAR coordinates marine management in the North-East Atlantic
- Atmospheric nitrogen and heavy metals loads are ~25-50% of the total to the North Sea
- EMEP atmospheric deposition products are an essential part of science-based management of European Seas
- OSPAR marine-focused products:
 - Deposition to all European Seas (including all OSPAR Regions)
 - Source-receptor matrices and deposition to regional seas and national marine EEZs



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THANK YOU

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*HASEC: Hazardous Substances and Eutrophication Committee, one of

OSPAR's principle working groups