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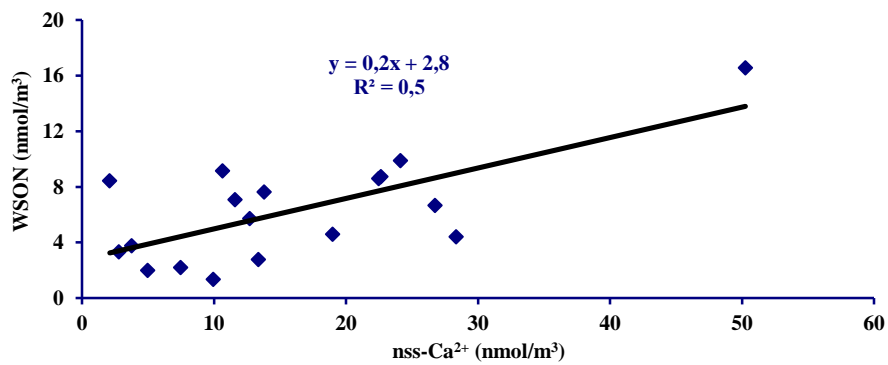
*Supplement of*

## **Atmospheric water-soluble organic nitrogen (WSO<sub>N</sub>) over marine environments: a global perspective**

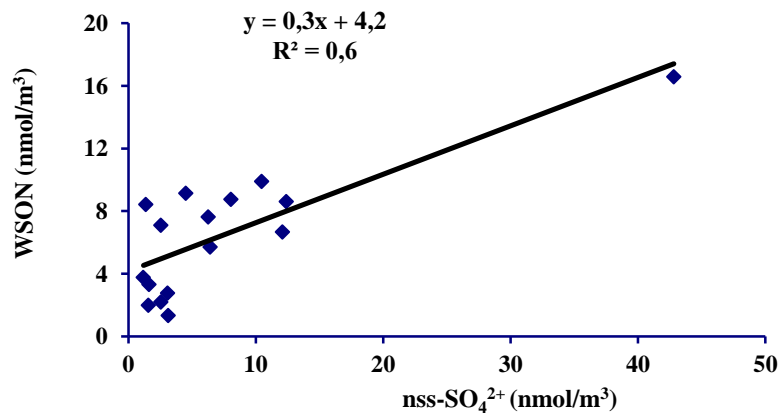
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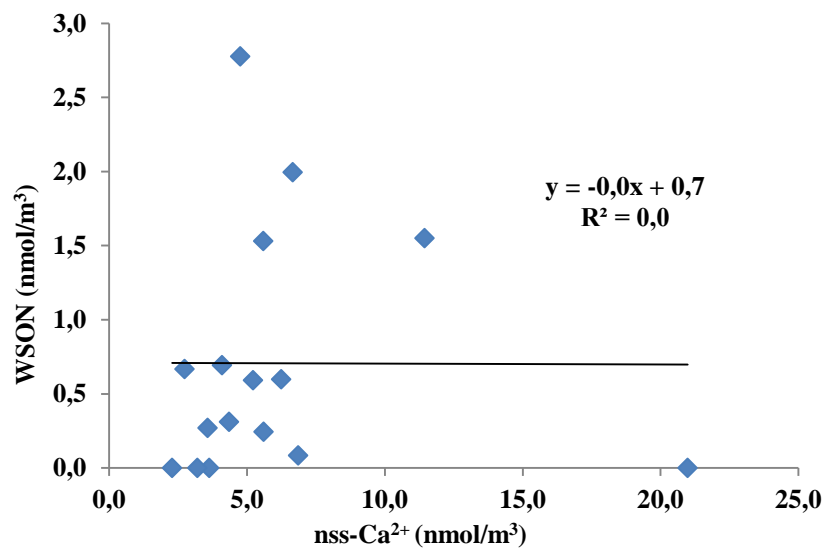
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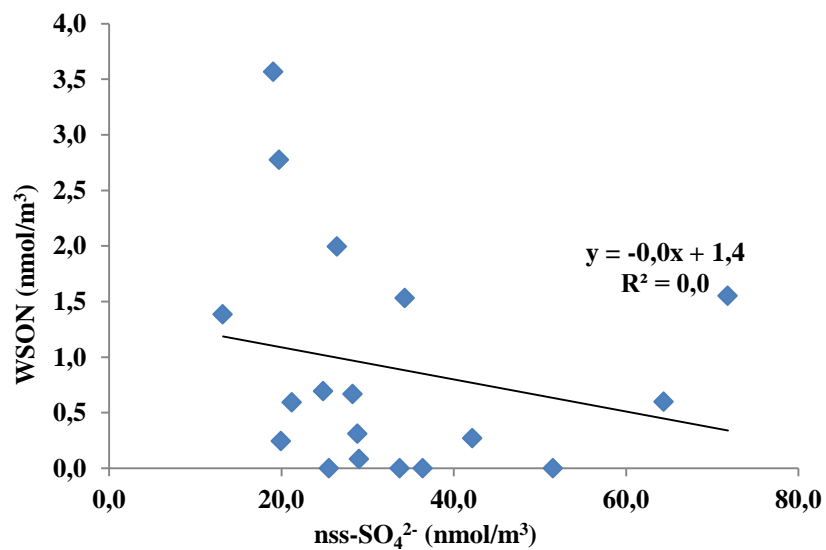
**Fig.S1:** Correlation between WSON & nss-Ca<sup>2+</sup> in coarse mode particles ( $Da > 2\mu\text{m}$ ) during Meteor cruise (N=18).



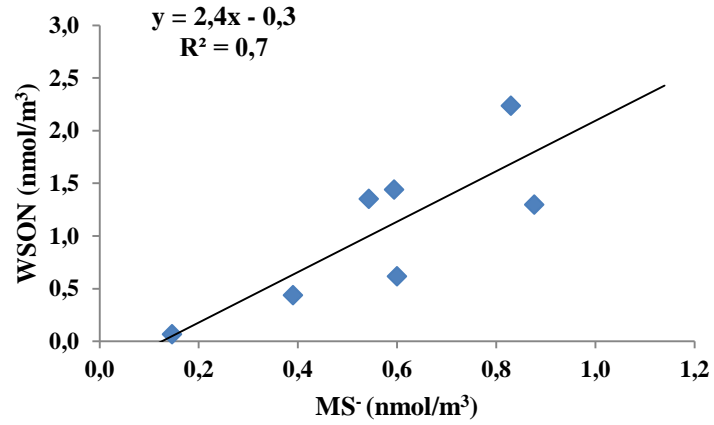
**Fig.S2:** Correlation between WSON & nss-Sulfate in coarse mode particles ( $Da > 2\mu\text{m}$ ) during Meteor cruise (N=18).



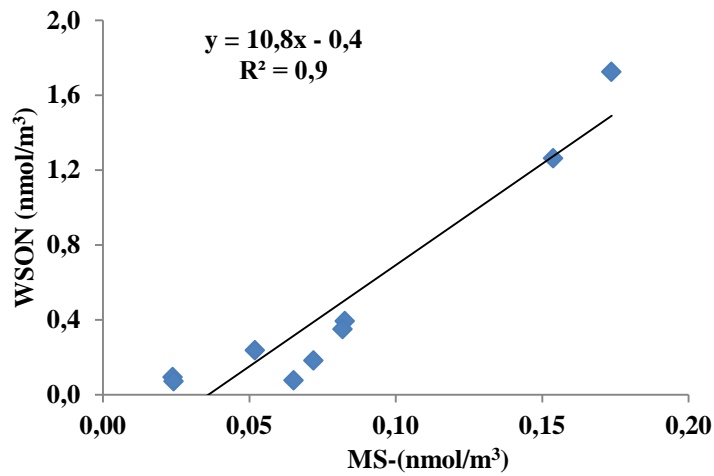
**Fig.S3:** Correlation between WSON & nss-Calcium in fine mode particles ( $Da < 2\mu m$ ) during Meteor cruise.



**Fig.S4:** Correlation between WSON & nss-Sulfate in fine mode particles ( $Da < 2\mu m$ ) during Meteor cruise.



**Fig.S5:** Correlation between WSON & MS<sup>-</sup> in fine mode particles in Amsterdam Island (N=7).



**Fig.S6:** Correlation between WSON & MS<sup>-</sup> in coarse mode particles in Amsterdam Island (N=9).