

# DATA ANALYSIS AND UNCERTAINTY

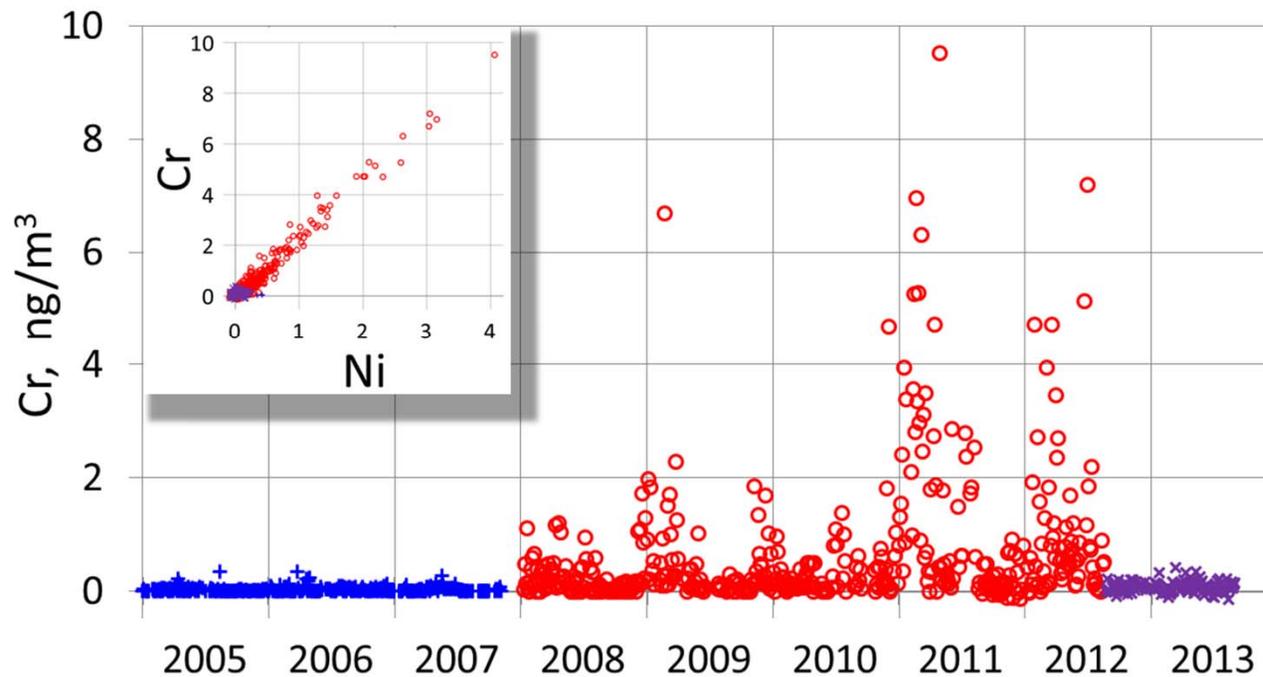
Warren White and Nicole Hyslop

IMPROVE Steering Committee

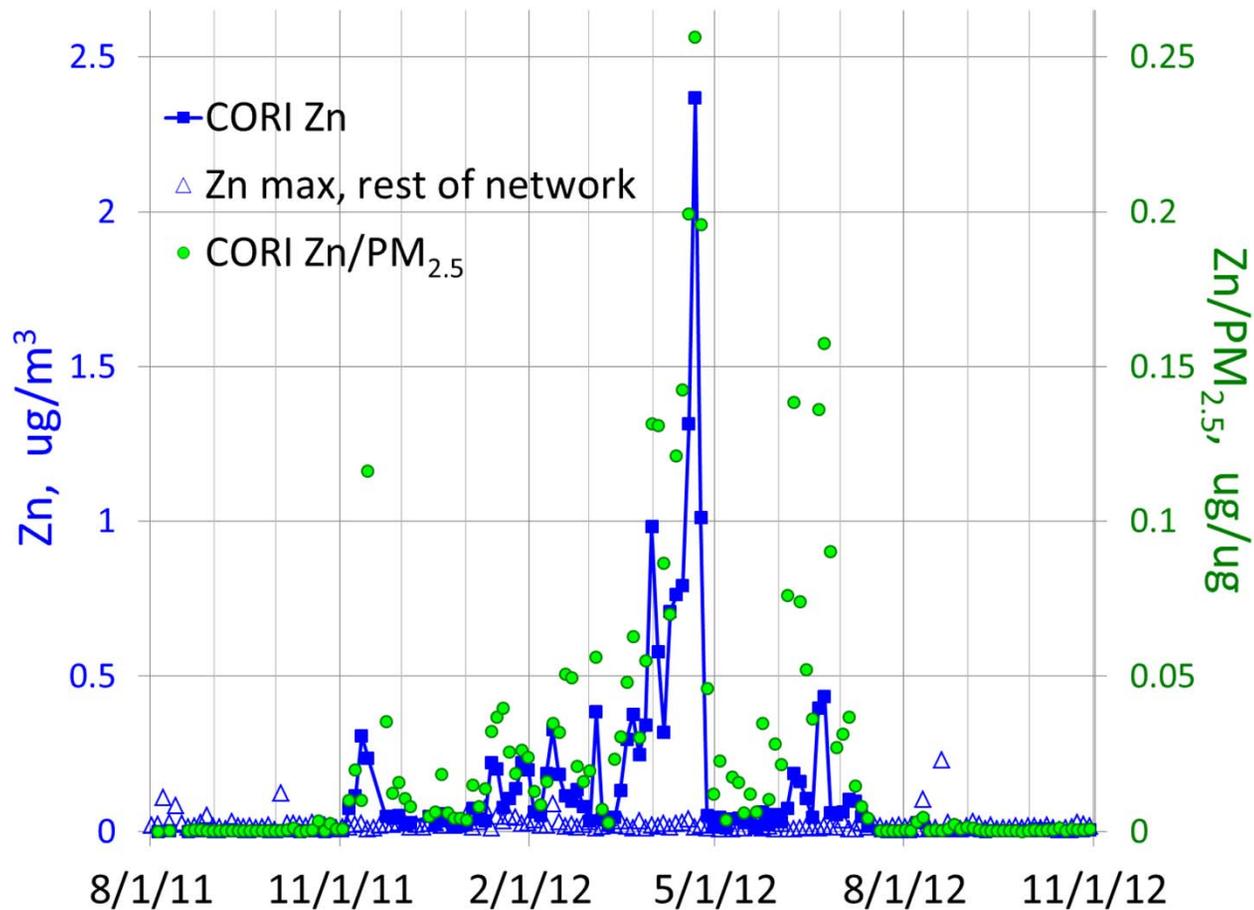
Cape Romain, South Carolina, 15 October 2014



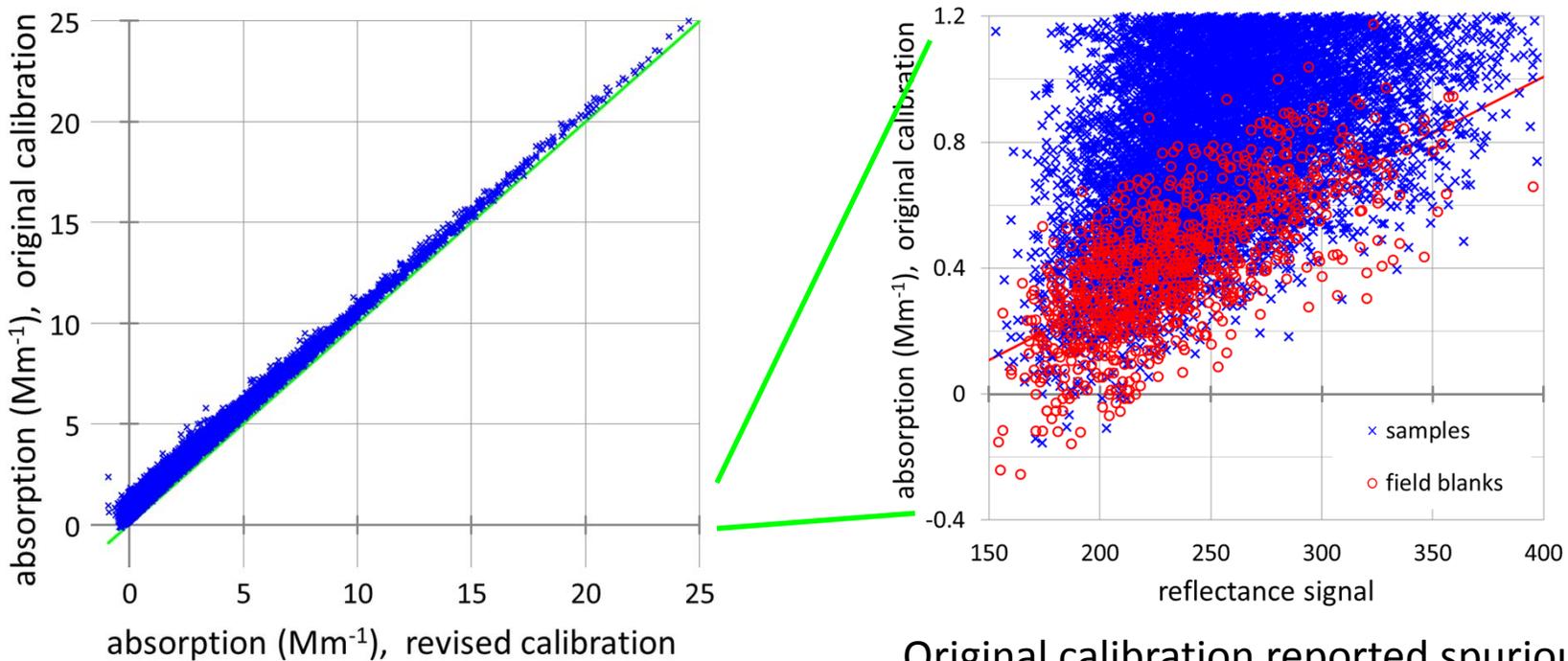
**Posting type**      Advisory  
**Subject**            Contamination associated with new sampler shed  
**Module/Species**    A/ Cr, Ni  
**Sites**                NOAB  
**Period**              1 January 2008 – 16 August 2012  
**Recommendation**   Exclude Cr and Ni from analysis



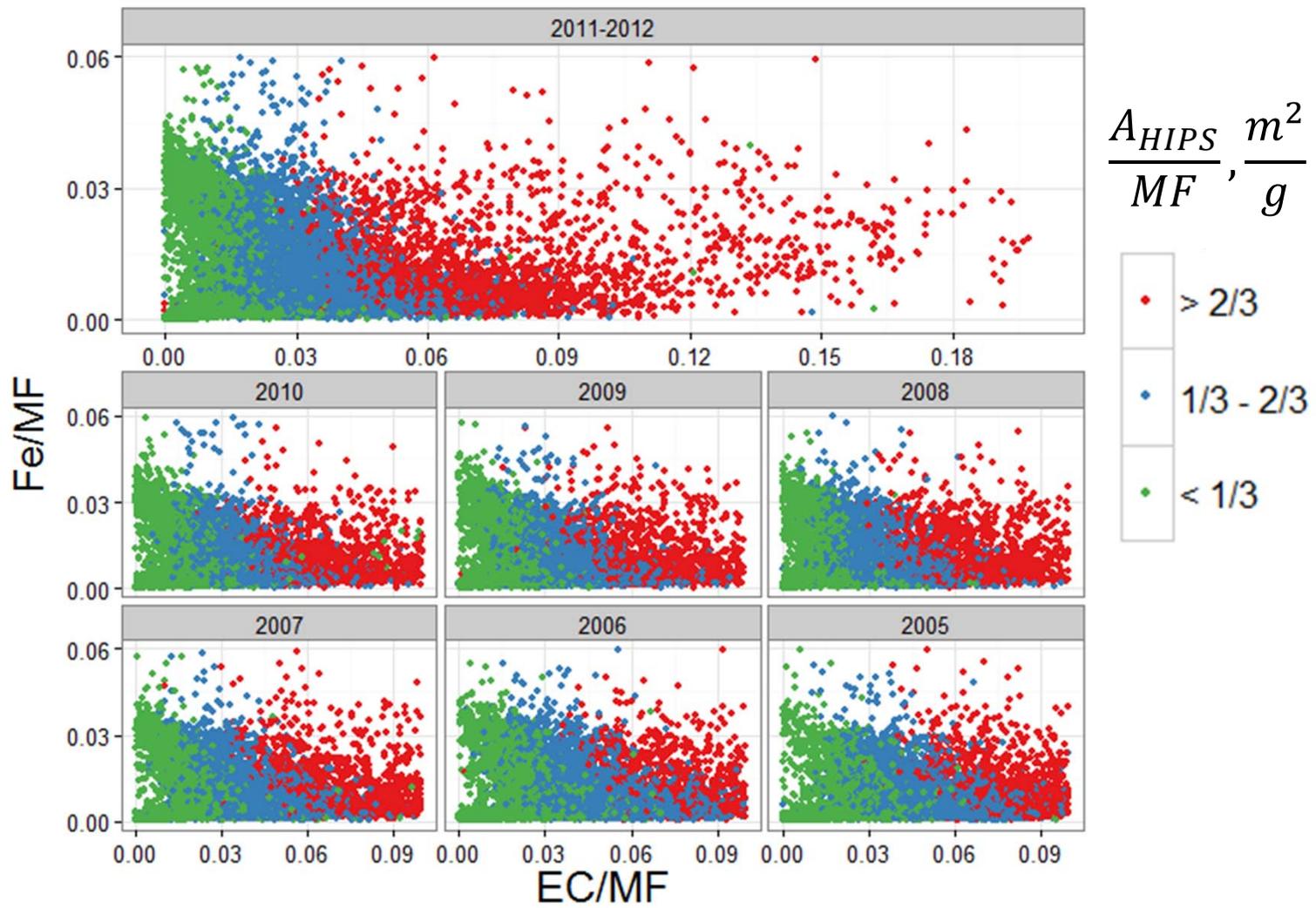
**Posting type**      Advisory  
**Subject**            Temporary contamination of Columbia River A-module samples  
**Module/Species**    A/ Zn, MF  
**Sites**                CORI  
**Period**              5 November 2011 – 14 July 2012  
**Recommendation**   Exclude Zn from analysis and consider possible impacts on MF

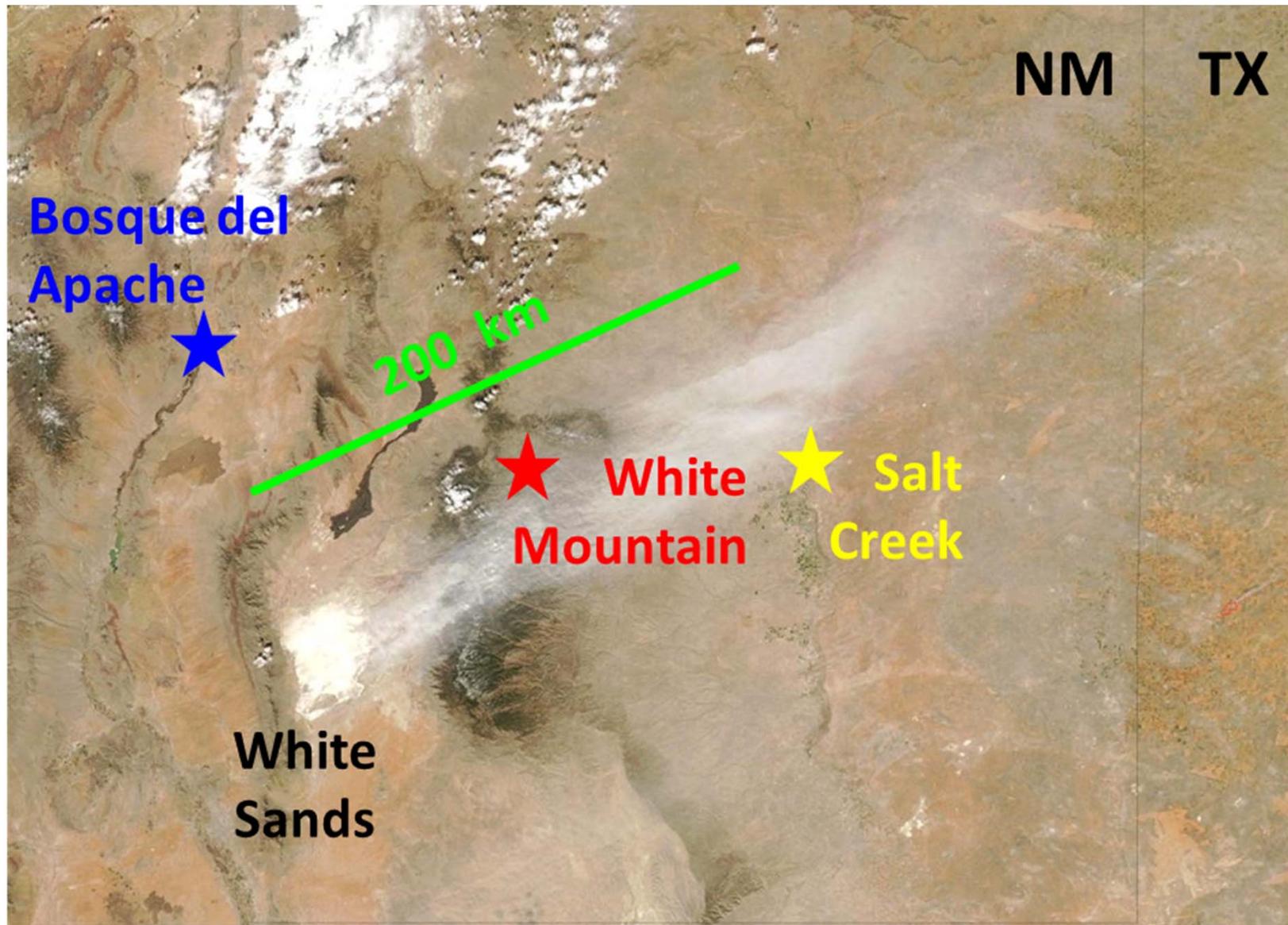


**Posting type** Informational *(in preparation)*  
**Subject** Revised of optical absorption (HIPS) measurements  
**Module/Species** A/  $F_{\text{abs}}$   
**Sites** entire network  
**Period** 2003 and later  
**Recommendation** Substitute for data downloaded before 2014



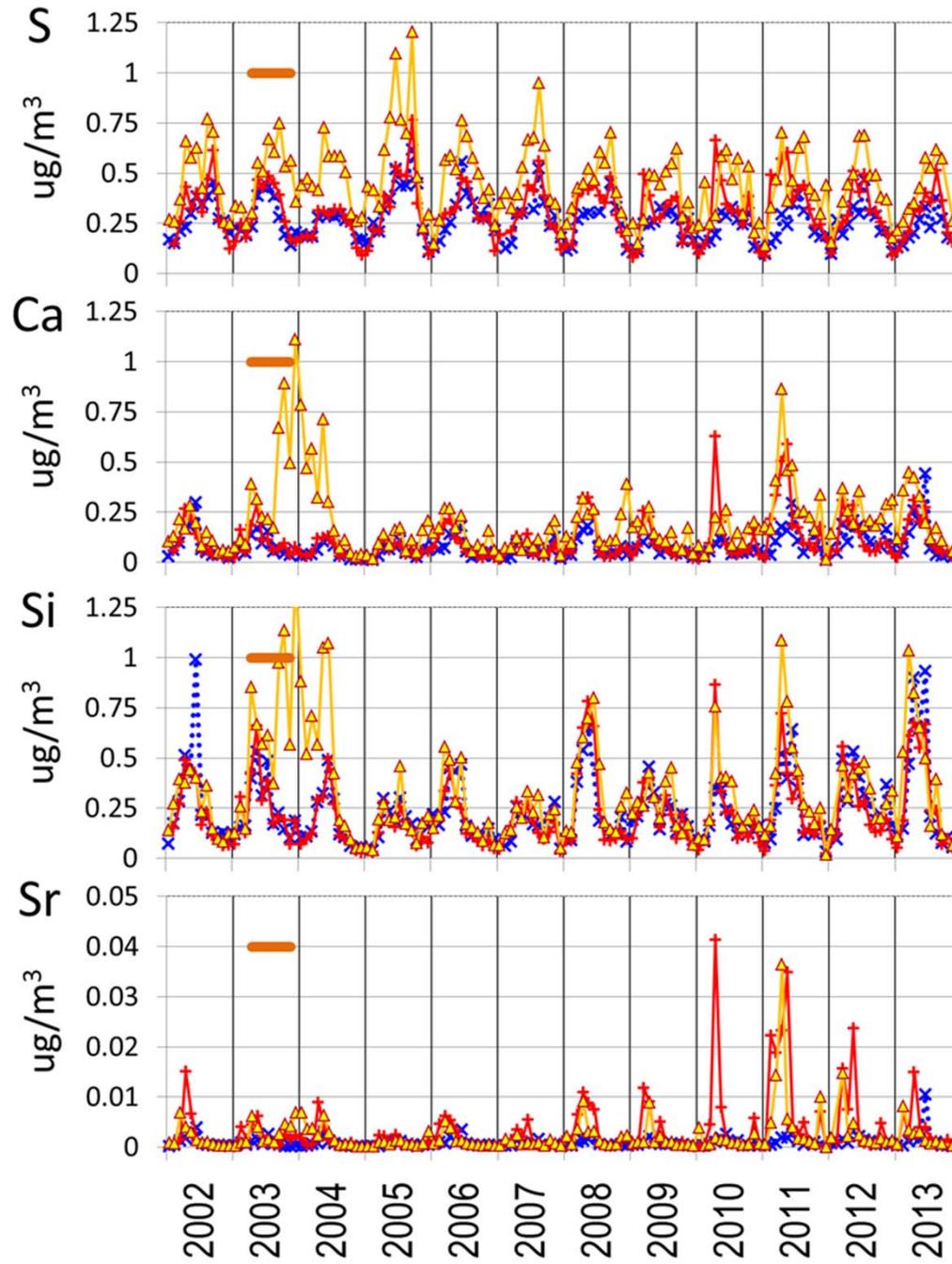
Original calibration reported spurious absorption for samples collected on optically thick filters.

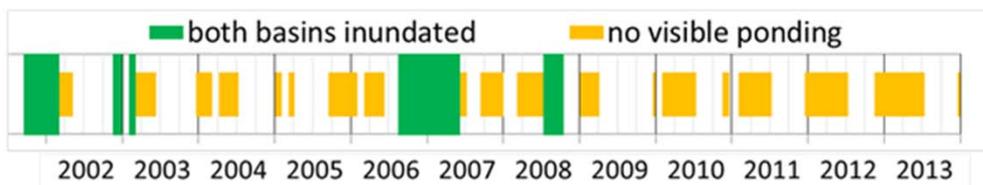
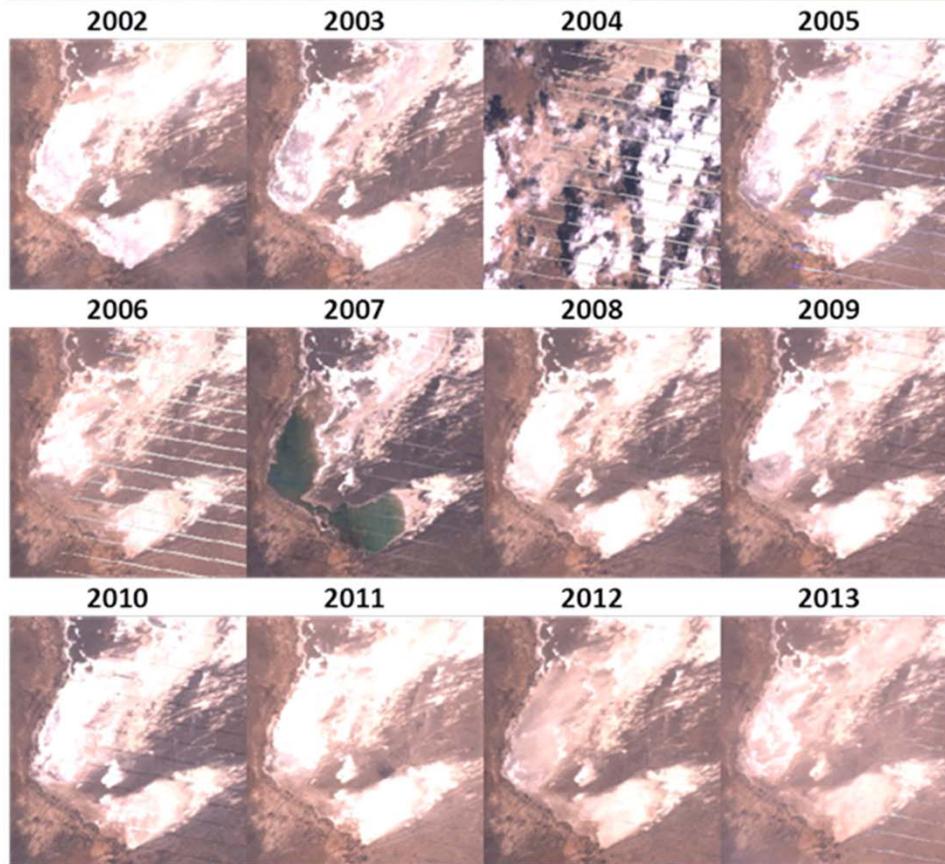
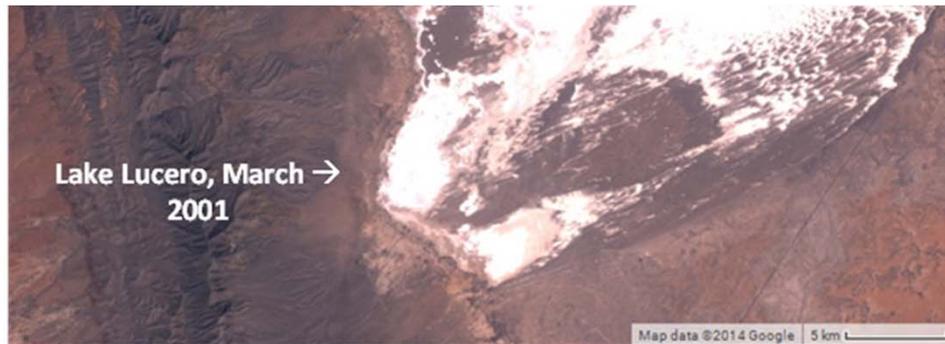


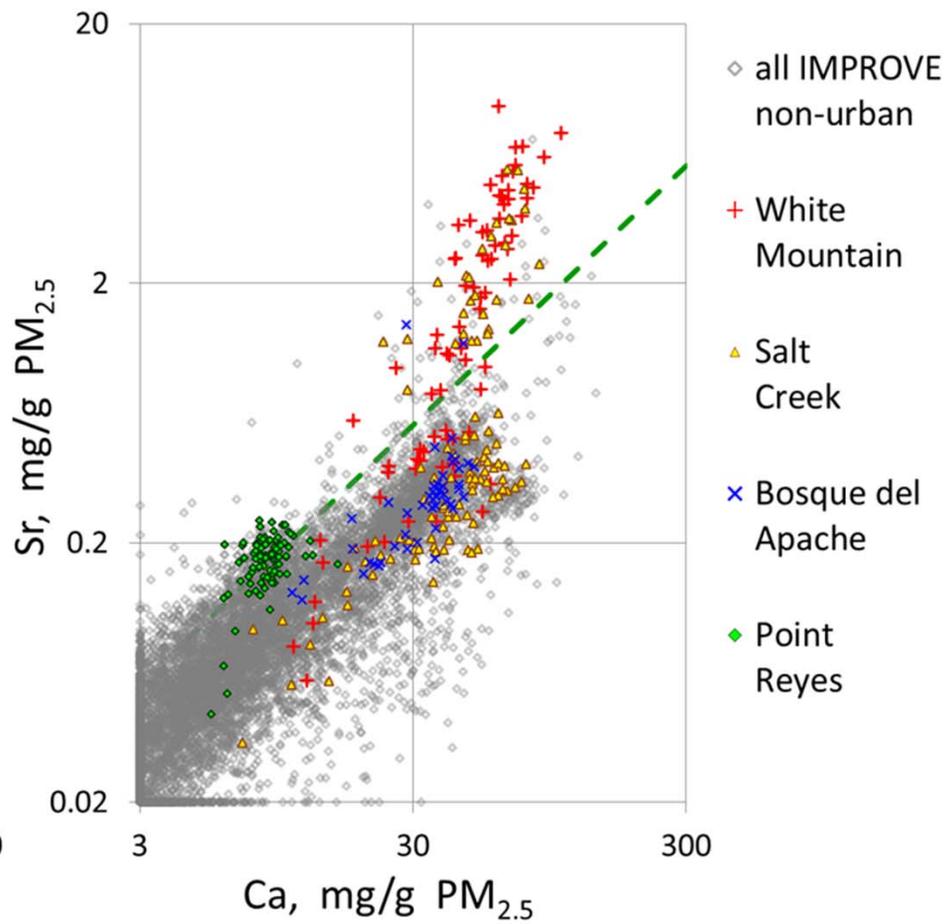
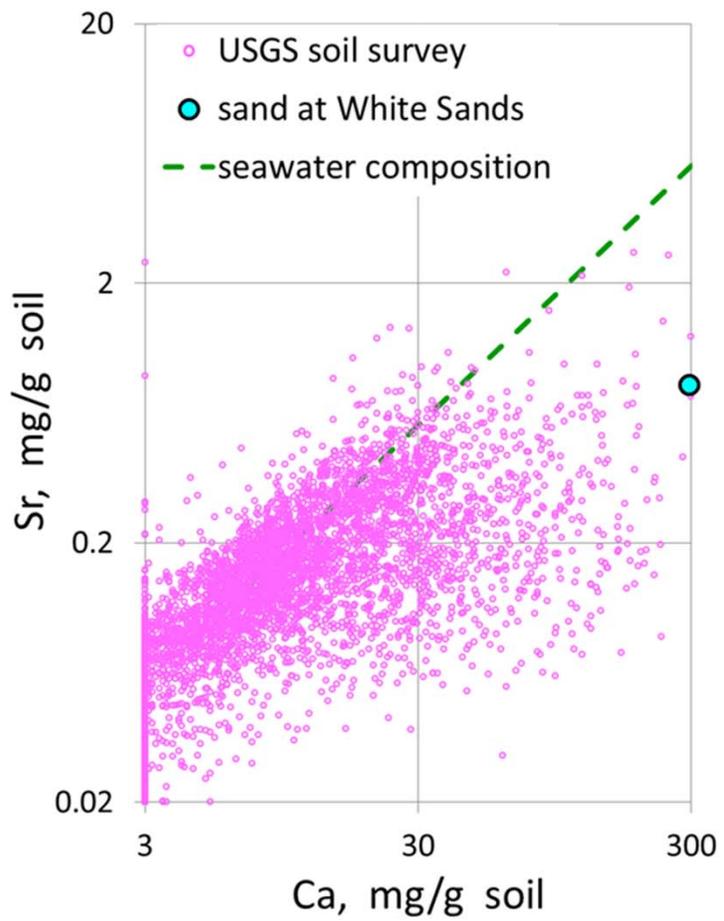


**Regional transport of a chemically distinctive dust:**  
to appear in  Aeolian Research

··· Bosque del Apache    + White Mountain    ▲ Salt Creek



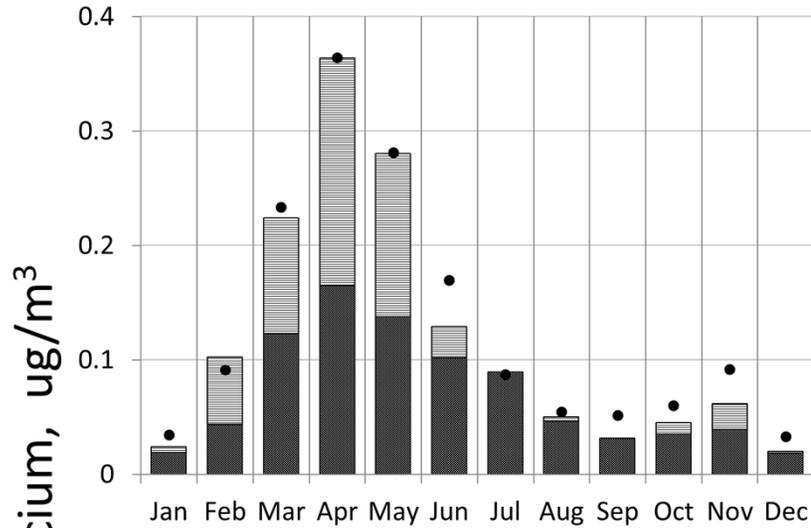




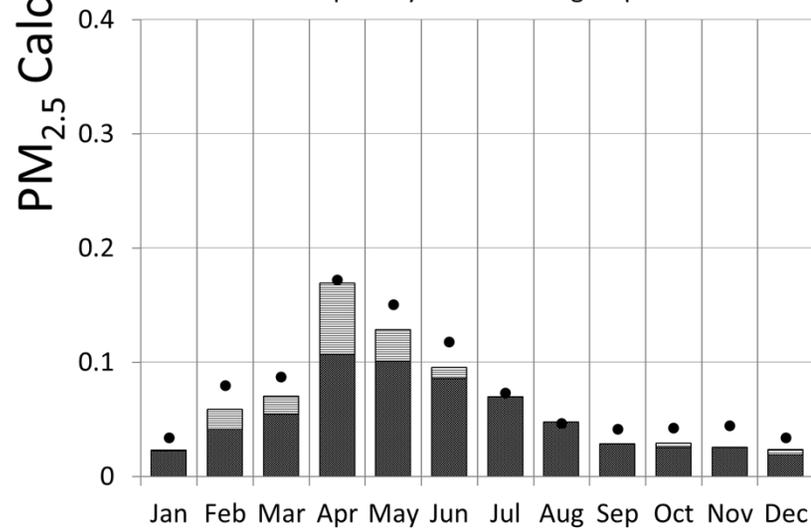
# White Mountain, New Mexico, 2008 - 2013

2008 - 2013

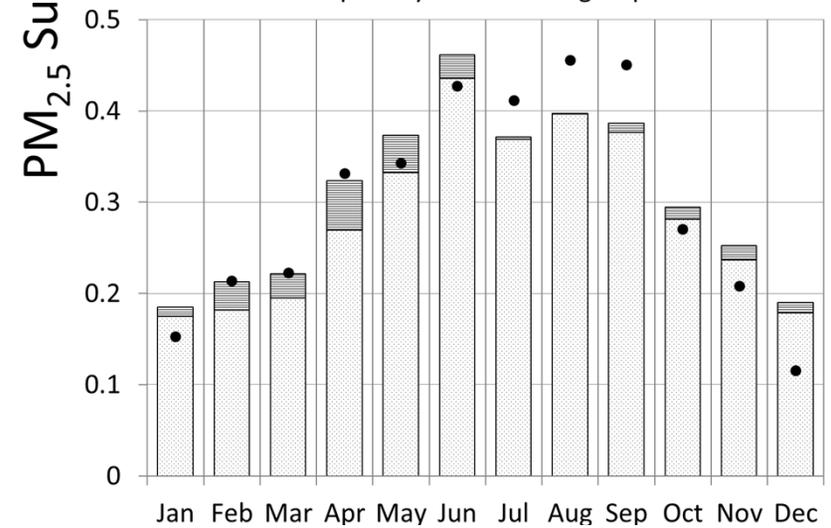
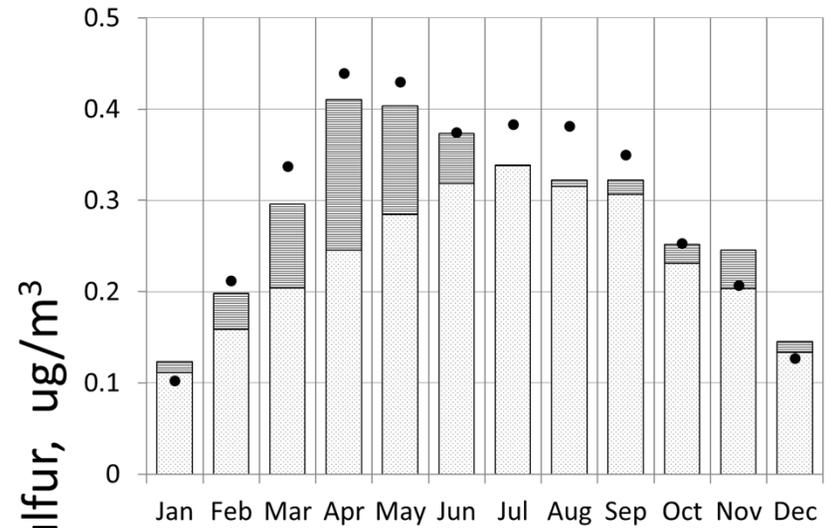
■ background   ■ gypsum   • measured

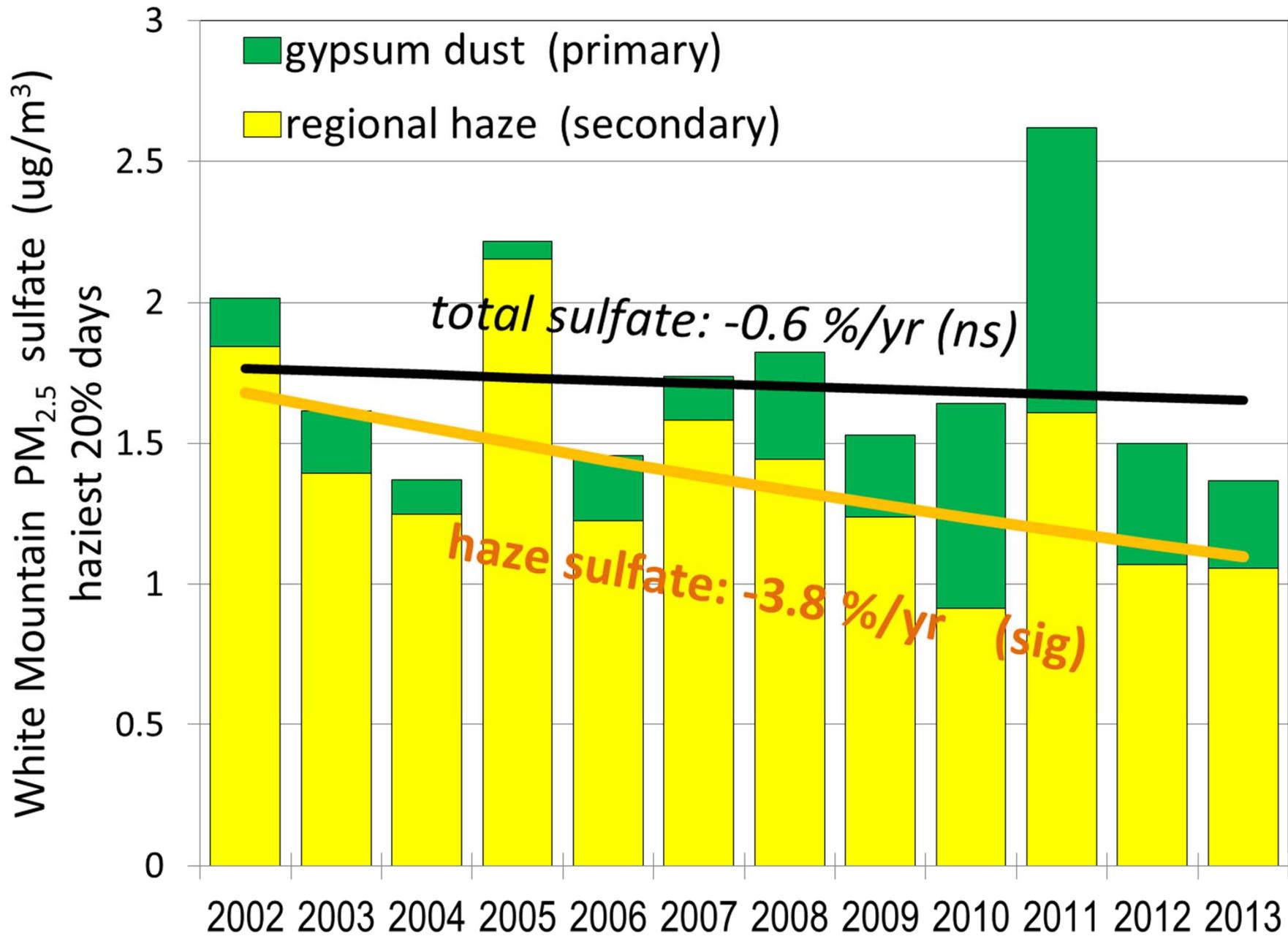


2002 - 2007

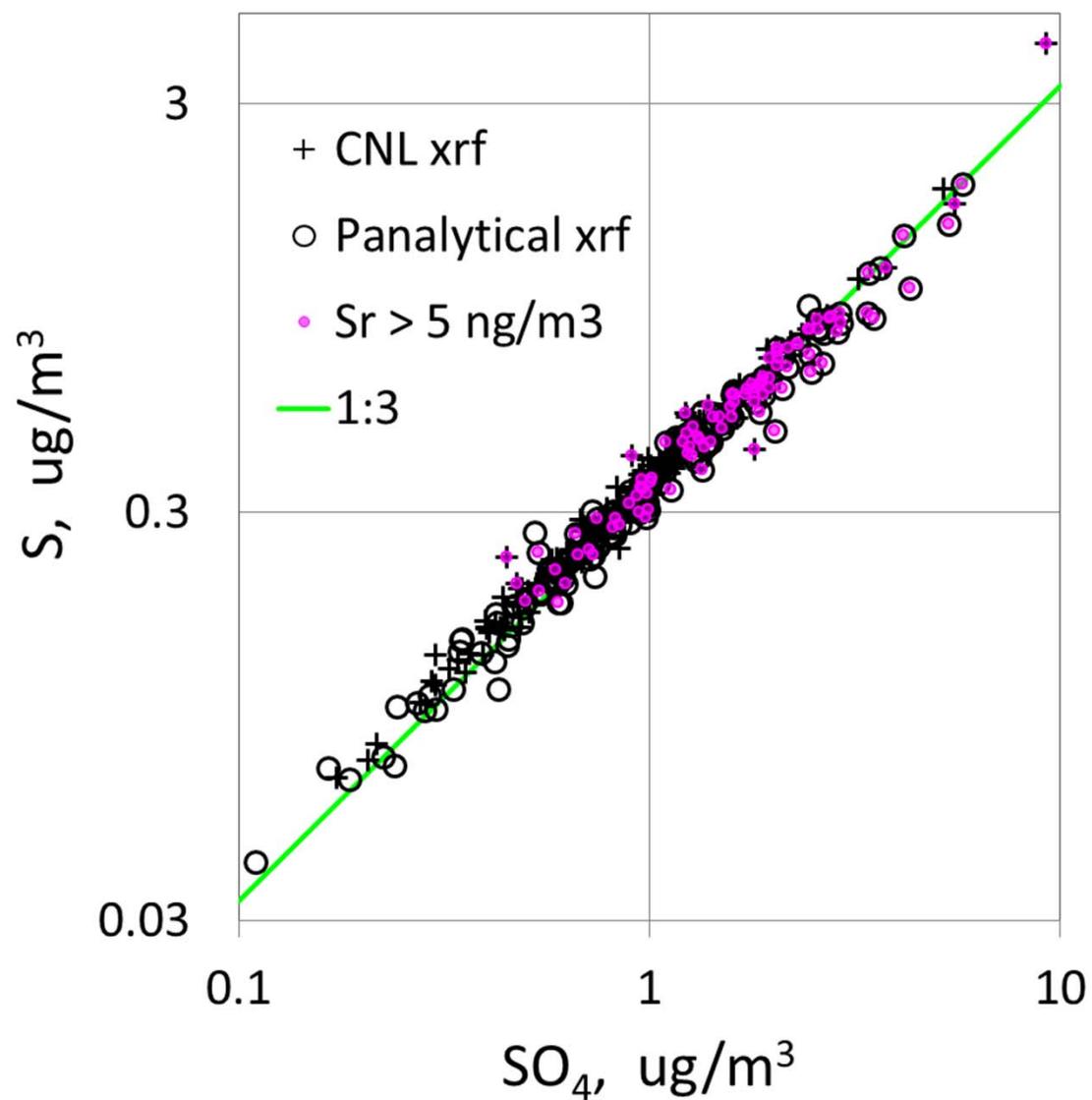


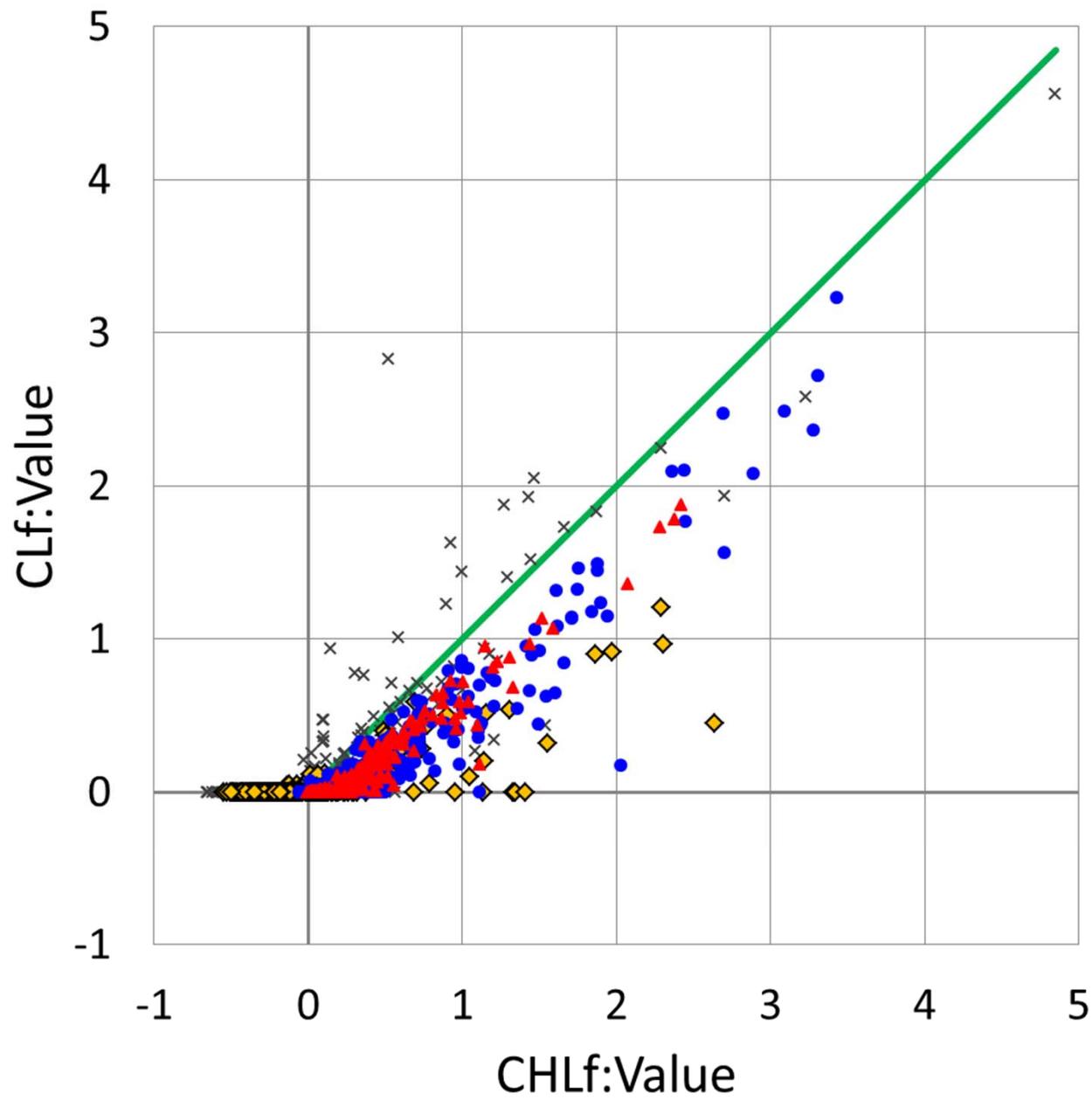
■ haze   ■ gypsum   • measured





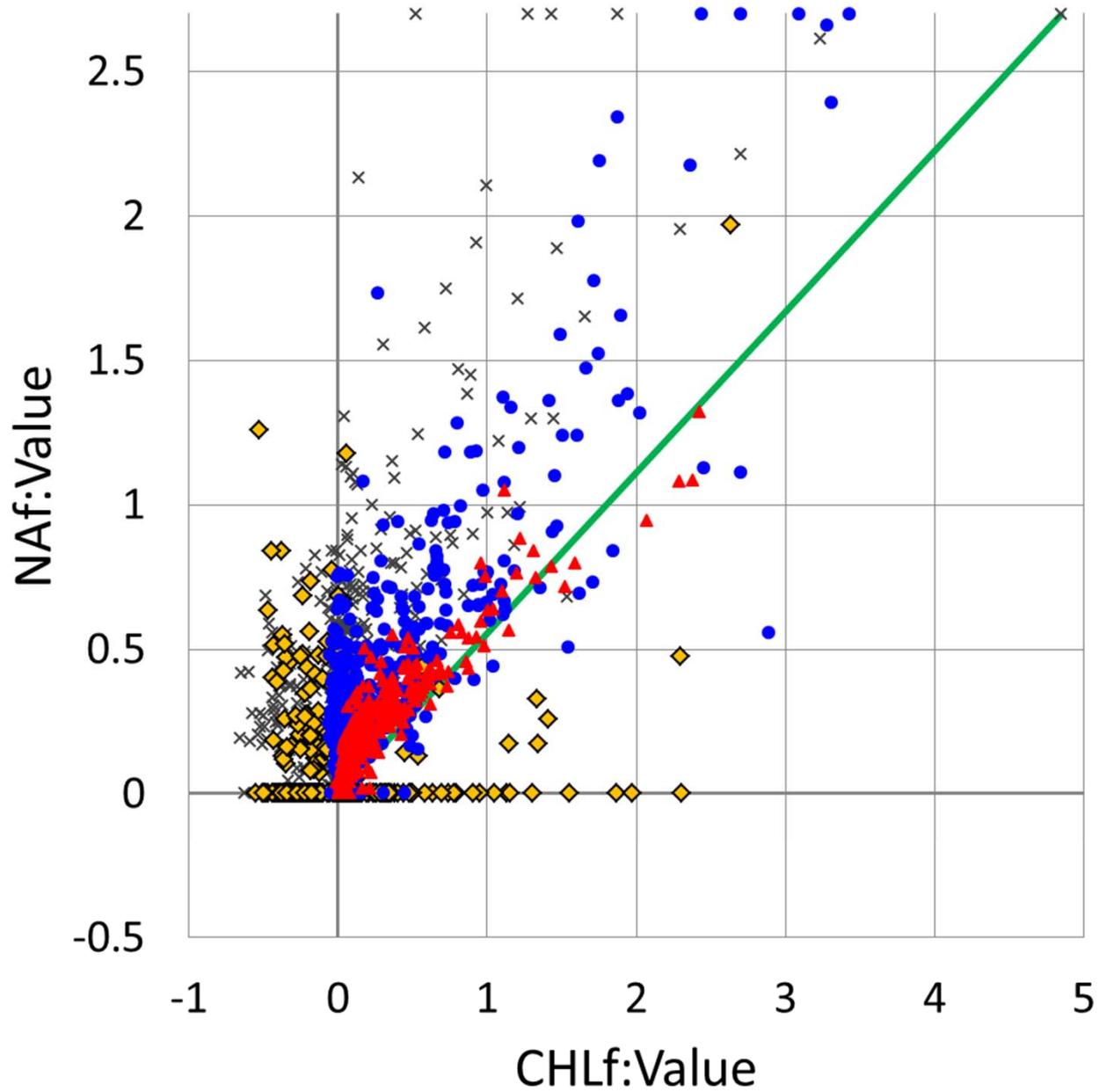
# White Mountain, March, April, May, 2008 - 2013





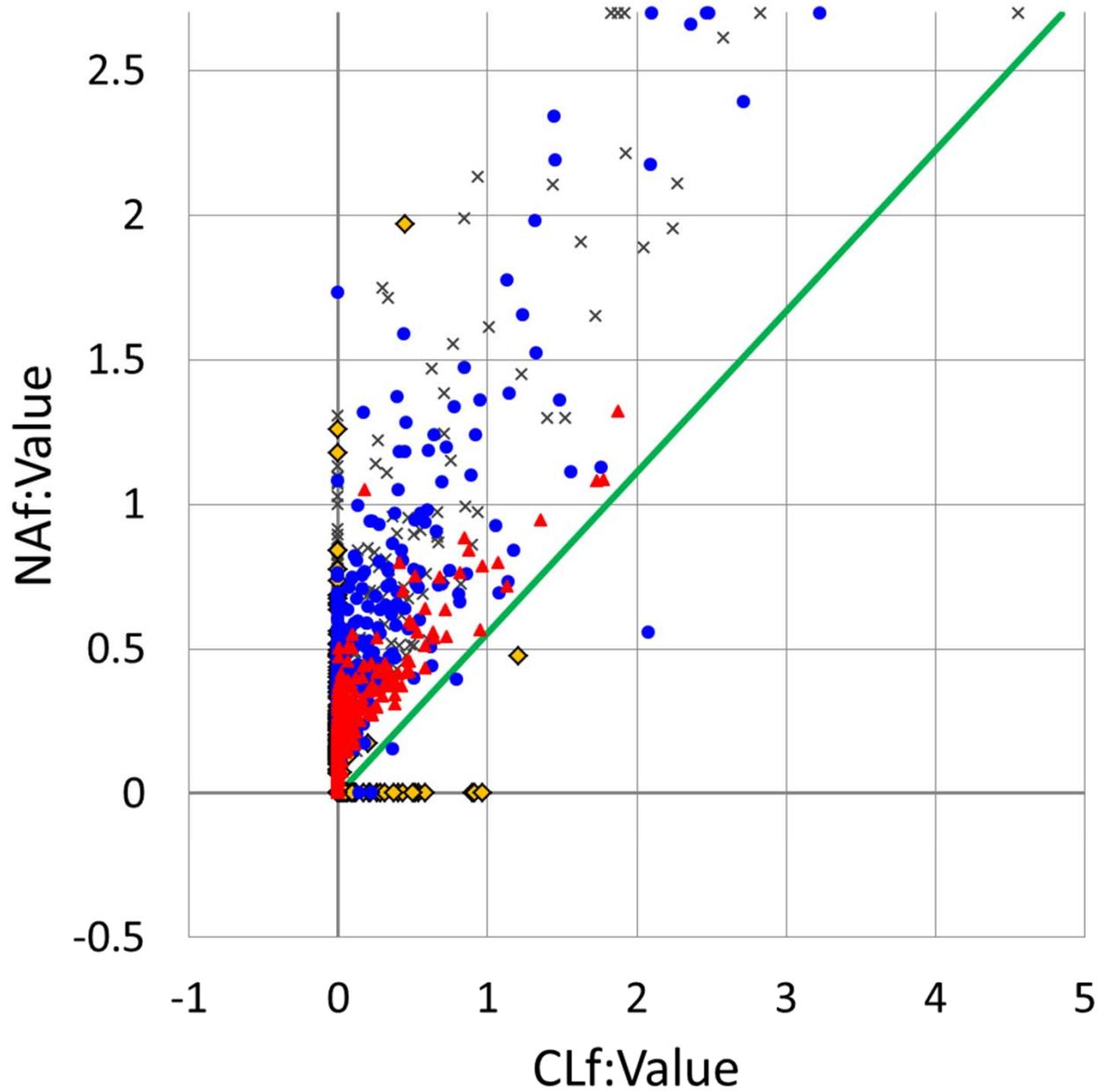
Cape Romain

- × 9/1994 - 11/2001
- ◇ 12/2001 - 12/2004
- 2005 - 2010
- ▲ 2011 - 2013
- SEASALT



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- SEASALT