

Constraining Ammonia Emissions Over the Southeast US Using CrIS Observations

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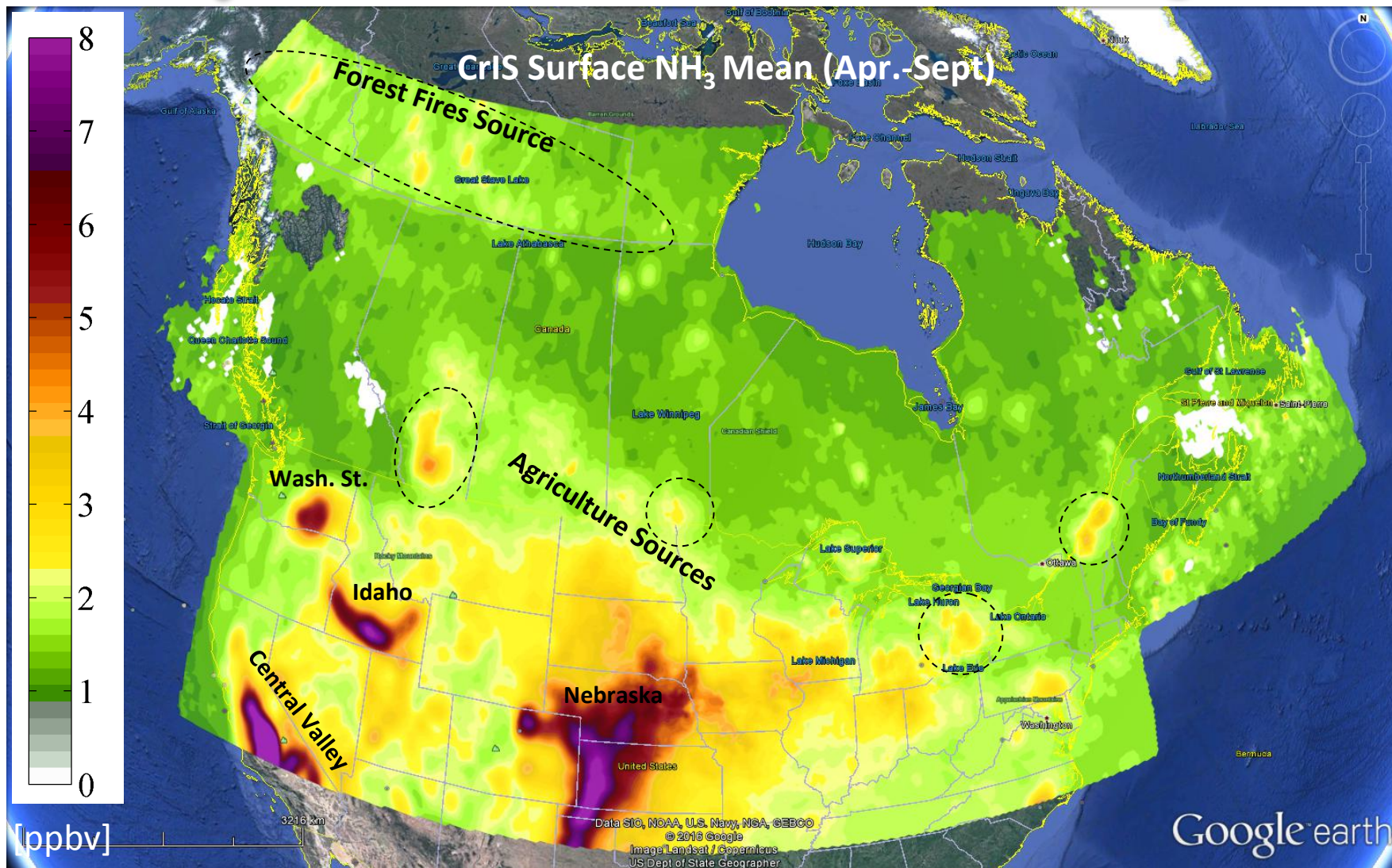
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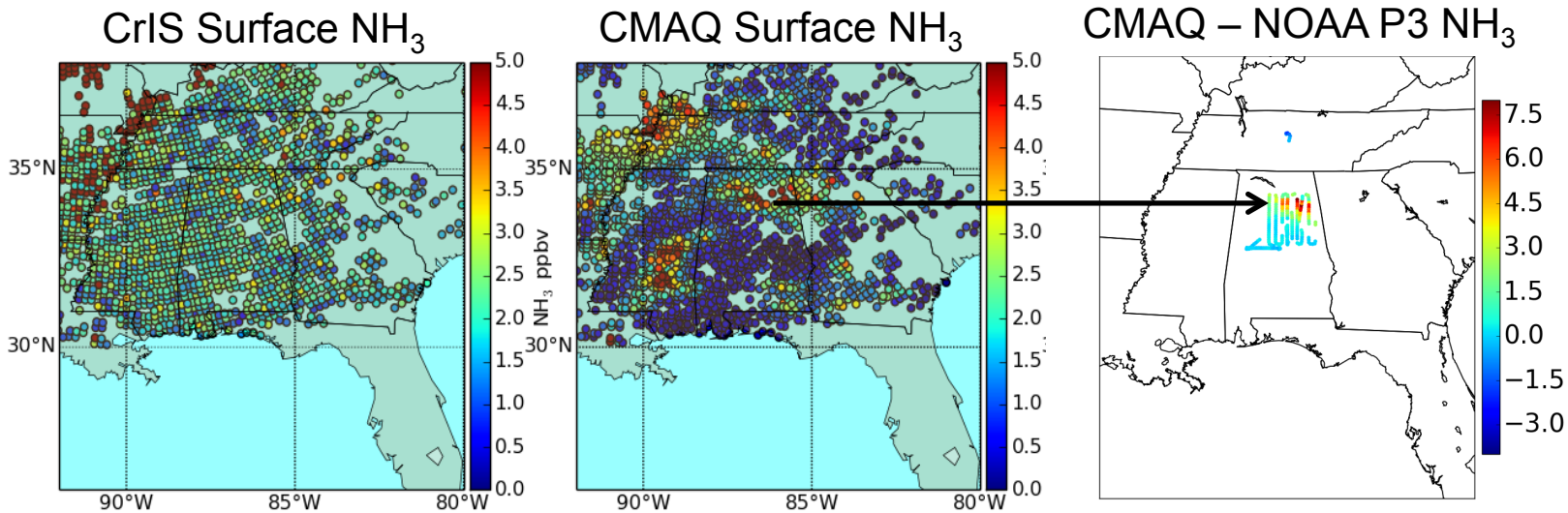
*Now At Drexel University

CrIS NH₃: N. America Warm Season Average 2013

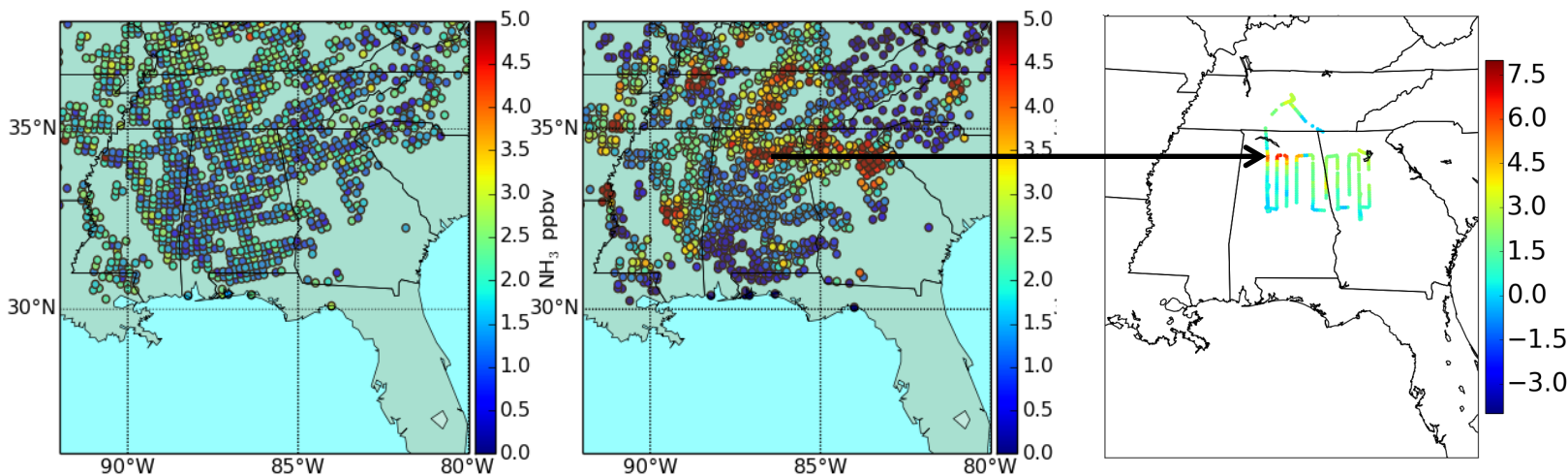


Feed lot NH₃ emissions overestimated in AL

06/11/13
(Tuesday)

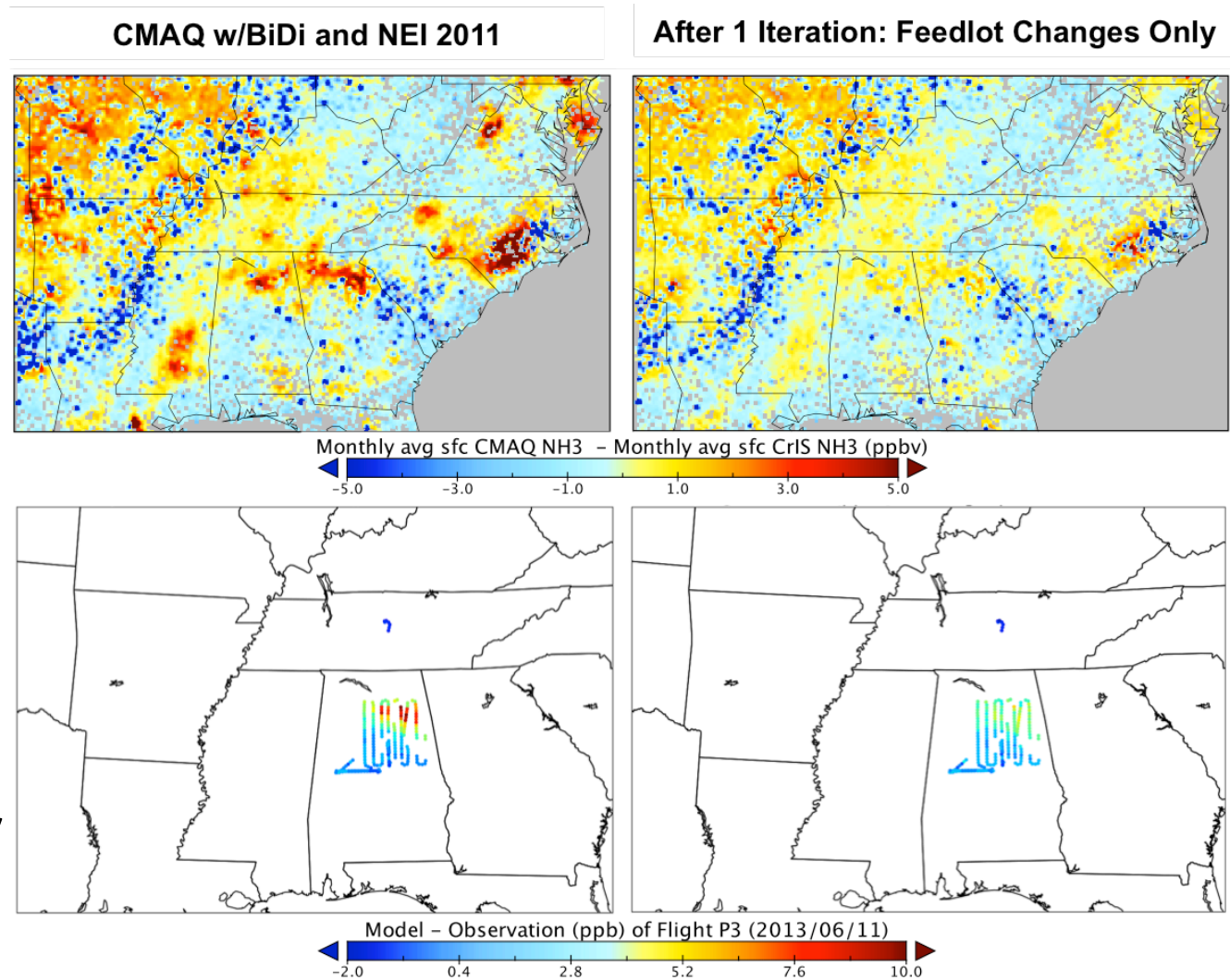


06/22/13
(Saturday)



Proof-of-Concept Inversion

- Finite-difference mass balance (Lamsal et al., GRL, 2011).
- Requires two model runs per iteration to estimate sensitivity to emissions.
- Calculate emission scaling factors and apply to next iteration.



Future: Automated Processing on AWS

Once per month in CrIS Record

