#### Peripheral East Antarctic ice core sites as unique recorders of climate variability



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# Driving questions for Antarctic LIG ice records

- Were there major differences in temperature, atmospheric circulation during LIG?
- What was the response of climate to a warmer LIG world?
- Was the WAIS diminished or completely collapsed?



Data from Jouzel et al., 2007; Lambert et al., 2008

#### Dust in the ice core record



# Mt. Moulton (W. Antarctica)



Map adapted from Steig et al., 2015



Korotkikh et al., 2011

### Talos Dome



Narcisi et al., 2016

# Taylor Glacier







# Allan Hills



Spaulding et al., 2013

#### Summary & future questions...



BIA locations adapted from Bintanja, 1999

- Records hint at increased volcanism or volcanic dust signature & perhaps variations in WAIS coverage?
- Expansion of BIA LIG records close to WAIS & EAIS boundary may provide spatially relevant paleoclimate information
- Continue exploring/testing BIA areas for LIG (and older) ice
- More BID drilling of LIG ice for continuous, high-resolution, largesample size record for probing nuances in regional climate

### Questions?

### References

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