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- material features (e.g., Cavallo and Hakim 2010)
- Simmonds and Rudeva 2012; Tao et al. 2017)

- (Hersbach and Dee 2016)
- Zhang et al. 2013)

- for AC12
- minimum SLP



Table 1. Lifetimes of TPVs and surface cyclones			
Feature	Date of Genesis	Date of Lysis	Lifetime (d)
TPV 1	23 Jul	19 Aug	~27
TPV 2	3 Aug	9 Aug	~6
TPV 3	4 Aug	6 Aug	~3
L1	31 Jul	5 Aug	~5
AC12	2 400	15 Aug	~13



Linkages Between Tropopause Polar Vortices and the Great Arctic Cyclone of August 2012 ¹University at Albany, SUNY

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