

ABSTRACT FOR CEDAR WORKSHOP 29 June 2012

EXOS and the Evolution of WINCS  
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EXOS is the charged-particle spectrometer on EXOCUBE that will measure the H/He/O and H<sup>+</sup>/He<sup>+</sup>/O<sup>+</sup> densities and temperatures in the exosphere. Its basic approach is based on WINCS; however, EXOS gave the impetus for improvements that led to the 2<sup>nd</sup> generation WINCS. Beginning with a brief description of the WINCS methodology for ionosphere-thermosphere measurements, lessons learned from the first generation WINCS are summarized as introduction to the design of EXOS. The EXOS design is then presented and discussed.