

**POSIDON Science Team Meeting, 21-22 June 2017, Boulder, Colorado
NOAA ESRL CSD, Rm 2A-305**

Wednesday June 21, 2017

830 Registration / Lunch orders

Welcome, Introduction, POSIDON meteorological setting (chair: Ru-Shan Gao)

900 Welcome / Introduction	R.-S. Gao, T. Thornberry, E. Jensen, D. Fahey
915 Program manager comments	K. Jucks
930 POSIDON overview and comparisons with ATTREX-3	E. Jensen
1000 A Meteorological Overview of the POSIDON campaign	L. Pfister
1030 Break	
1100 Convective Influence of Air Parcels Sampled during POSIDON	R. Ueyama

TTL transport and trace gas concentrations (chair: Leonhard Pfister)

1130 Tropical cyclone influence on upper tropospheric trace gas distributions from in situ measurements	E. Ray
1200 Lunch	
1330 Potential impact of Asian convection on trace gas distributions in the UTLS during POSIDON	E. Atlas
1400 Comparison of POSIDON WAS measurements with ATTREX 2014 and WACCM	S. Schauffler
1430 Western Pacific TTL ozone distribution	T. Thornberry
1500 Tropopause definitions, TTL structures, and the dehydration process from ATTREX and POSIDON observations	L. Pan
1530 Break	

UTLS sulfur and aerosols (chair: Eric Jensen)

1600 SO ₂ observations during POSIDON	A. Rollins
1630 POPS measurements of UTLS aerosols	R.-S. Gao
1700 Measurements of aerosol composition in the TTL	K. Froyd or D. Murphy
1730 Adjourn	

Thursday, June 22

Global modeling of UTLS aerosols and gases (chair: Brian Toon)

830 Balloon-borne Ozone Measurement from a New Station in Palau	K. Mueller
900 Vertical distribution of sulfur species (SO ₂ +sulfate) seen in AEROCOM models	Q. Tan
930 Modeled Aerosol Composition and Physical Properties in Global Tropical Tropopause	P Yu
1000 Composition and sources of aerosol above the UTLS: results from the NASA GEOS-5 model	V. Aquila

1030 **Break**

1100 Sources and Uncertainties in the Stratospheric Sulfur Budget

M. Mills

TTL water vapor and cirrus clouds (chair: Rei Ueyama)

1130 Airborne measurements of water vapor during the 2016 POSIDON campaign

G. Diskin

1200 **Lunch**

1330 Comparing POSIDON Observations of Water Vapor to MLS Measurements

M. Schoeberl

1400 UTLS water vapor and ozone evaluation during the NASA POSIDON mission using WB-57F
high-altitude research aircraft and balloons

E. Hall

1430 TTL cirrus microphysics: insights from POSIDON and ATTREX

S. Woods

1500 **Break**

1530 Seasonal and inter-annual differences in TTL cirrus cloud distributions and qualities between
the ATTREX III

M. Avery

1600 Vertical distributions of TTL cirrus and tracers observed during POSIDON

T. Thornberry

1630 Heterogeneous ice nucleation in the TTL

E. Jensen

1700 **Discussion and Wrapup**