2014 Western Pacific Airborne Campaigns Science Team Meeting (ATTREX, CONTRAST, and CAST)			
NCAR Mesa Lab, main conference room			
Monday, October 20			
Title	**Presentor**	**Duration (min)**	**Time**
Welcome/introduction	B. Randel, L. Pan	15	830
Program manager comments	K. Jucks, others?	15	845
ATTREX overview	E. Jensen	20	900
CONTRAST overview	L. Pan	20	920
CAST overview	N. Harris	20	940
Preliminary findings from the LAPAN-SOWER collaborative observations at Biak, Indonesia in February 2014	Fumio Hasebe	20	1000
Break		30	1020
Jan-Mar Western Pacific meteorological overview	L. Pfister, J. Bresch	60	1050
Education and Public Outreach	Alison Rockwell, E. Jensen	30	1150
Lunch		70	1220
Data archive/submission/access discussion	E. Jensen, E. Atlas, N. Harris, S. Honomichl	30	1330
Transport and Dynamics			
TTL cooling and drying during the January 2013 Stratospheric Sudden Warming	K. Rosenlof	20	1400
The relationship between small and resolved-scale variability in the Tropical Tropopause Layer (TTL)	J. Bergman	20	1420
A fine vertical wave structure and its relation with trace gas transport	J.-E. Kim	20	1440
Analysis of TTL wave properties using ATTREX observations	M. J. Alexander	20	1500
Break		30	1520
Identification of the tropical tropopause using O3-H2O tracer correlation from the ATTREX experiments	L. Pan	20	1650
TTL Transport Rates Across the Equatorial Pacific during Boreal Winter	J. Pittman	20	1550
NAME modelling activities for the CAST-CONTRAST-ATTREX VSLS measurements	Michal Filus	20	1610
Analysis of trace gas measurements made near the outflow of active and aged convection during CONTRAST	Johnny Luo	20	1630

Discussion		20	1710
Adjourn			1730
Tuesday, October 21			
UTLS humidity and clouds			
Horizontal variability of water and its relationship to cloud fraction near the tropical tropopause	H. Selkirk	20	830
Evaluation of CESM microphysics using ATTREX data	C. Bardeen	20	850
A comparison of cirrus cloud observations from the NASA ATTREX-3 field mission with simulations from the NCAR atmospheric CESM model (CAM5) coupled with an advanced cirrus cloud model (CARMA)	C. Maloney		910
Cloud microphysical properties in cirrus during the Airborne Tropical TRopopause Experiment (ATTREX)	S. Woods	20	930
What do ATTREX measurements tell us about the size distributions of ice crystals detrained from deep convection?	E. Jensen	20	950
How much ice is there in the Tropical Tropopause Layer? Observations from the ATTREX mission, from the Global Hawk and from Space	M. Avery	20	1010
Break		30	1030
In situ observations of water vapor and cirrus IWC in the Pacific TTL during ATTREX	T. D. Thornberry	20	1100
Relative humidity distributions in the tropical tropopause layer measured during NASA ATTREX	A. Rollins	20	1120
Comparison of Trajectory Cloud Model Results with ATTREX and CALIOP Observations	M. Schoeberl	20	1150
Lunch		80	1210
Trajectory and Microphysical Modeling of TTL Water	R. Ueyama	20	1330
Effects of Non-Spherical Ice Crystal Shape on Modeled Properties of Thin Tropical Tropopause Layer Cirrus	R.D. Russotto	20	1350
Discussion		20	1410
Ozone structure and controling processes			
Structures of tropical tropospheric ozone profiles observed in CONTRAST and analyses of the controlling mechanisms	Laura Pan	20	1430
Ozonesonde Measurements of Low Ozone during CAST	Geraint Vaughan	20	1450
Low ozone in the Tropical Tropopause Layer (TTL) over the western tropical Pacific	E. J. Hintsa	20	1510
Break		30	1530

Determination of stratospheric and anthropogenic contributions to enhanced mid-tropospheric O3 in the tropical western Pacific	Dan Anderson	30	1600
Origin of the dry layer from domain filling	Bill Randel	20	1630
Dry intrusion events during CONTRAST	J. Bresch	20	1650
Discussion		20	1710
Adjourn			1730
Wednesday, October 22			
Composition and chemistry (VSLS/VOC)			
Organic Halogen and Related Trace Gases in the Tropical Atmosphere: Results from Recent Airborne Campaigns Over the Pacific	E. Atlas	20	830
VSLS, DMS and NMHC measurements over the west tropical Pacific during the Co-ordinated Airborne Studies in the Tropics (CAST) campaign	Steve Andrews	20	850
CAM-chem model evaluation of the emissions and distribution of VSLS in the lower and free troposphere over the eastern and western Pacific using observations from TORERO and CONTRAST	Becky Hornbrook	20	910
Geographical distribution of selected organic trace gases in the UT/LS region of the Pacific	M. Navaro	20	930
Quantifying VSLS Emissions using the TOMCAT 3-D CTM	Hannah Mantle	20	950
Break		30	1010
Spatial distributions and inter-hemispheric gradients observed for NMHCs, OVOCs and HVOCs observed during CONTRAST and compared to models and previous research missions	Eric Apel and Nicola Blake	20	1040
Ground-based measurements of trace gases in Manus and the W. Pacific	Neil Harris	20	1100
Characterization of transport and dynamical boundaries during CONTRAST using chemical tracers	S. Schauffler	20	1120
Discussion		20	1140
Lunch		80	1200
Posters		120	1320
Preliminary Box Modeling Results of Formaldehyde During CONTRAST	Dan Anderson		
Measurements of NO, NO2, and O3 on the GV during CONTRAST	Andy Weinheimer		
Data quality and coverage of the CO, CO2, and CH4 observations during CONTRAST	Teresa Campos		
Assessment of DLH Instrument Performance During ATTREX 1-3	G. Diskin		
Tests on the CAST Ozonesondes	Richard Newton		
Airborne measurements over the west tropical Pacific during the Co-ordinated Airborne Studies in the Tropics (CAST) campaign	Steve Andrews		
Distributions and Correlations of organic trace gases in the Western Pacific Atmosphere	Valeria Donets		
CAST (Co-ordinated Airborne Studies in the Tropics): Overview and highlights	Neil Harris		

Measurements of Iodine Monoxide Levels During the CAST Campaign Using Broadband Cavity Enhanced Absorption Spectroscopy	Bin OuYang		
Age of air analysis in GEOS-CHEM	Robyn Butler		
TOGA and AWAS measurements during CONTRAST	E. Apel		
Inter-comparisons of TOGA and AWAS measurements during CONTRAST	Becky Hornbrook		
CO2 Variation in the Tropical Upper Troposphere Associated with Surface CO2, Convective Activity, a	Yoichi Inai		
Break		30	1520
Composition and chemistry (BRO/partitioning)			
The First Simultaneous Airborne Measurements of BrO, BrCl and HOBr in the Tropics: An Assessment on the HOx Budget and O3 Depletion	Mike Le Breton	20	1550
Airborne Observations of BrO and HOBr by Chemical Ionization Mass Spectrometry (CIMS) during the	Dexian Chen	20	1610
BrO in the Tropical and Subtropical UTLS: Longitudinal Gradients over the Pacific Ocean	Rainer Volkamer	20	1630
Bromine Chemistry in the Tropical UTLS during the ATTREX Experiments	J. Stutz	20	1650
Adjourn			1710
Thursday, October 23			
Composition and chemistry (BRO/partitioning continued)			
Stratospheric Injection of Bromine from Very Short Lived Sources	Ross Salawitch	20	830
Bromine radicals in the tropical troposphere: a GEOS-Chem perspective	Johan Schmidt	20	850
Discussion		20	910
Composition and chemistry (IO, modeling, and other measurements)			
IO in the Lower Stratosphere and Vertical Profiles over the Tropical Eastern and Western Pacific	Ted Koenig	20	930
Global modelling of tropospheric iodine: Assessment and implications.	Mat Evans	20	950
Break		30	1010
Examining the Oxidative Capacity of the Troposphere in the Remote Tropical Western Pacific	Julie Nicely	20	1040
Atmospheric Lifetimes and Stratospheric Removal Rates for Greenhouse Gases and Ozone Destroying Substances from CO2-tracer relationships	S. Wofsy	20	1100
Measurements of NO and O3 from the BAe 146 aircraft during the CAST project	James Lee	20	1120
CO, CO2 measurements during CAST	James Lee	20	1140
Discussion		20	1200

Lunch		70	1220
Breakout discussions of collaborations, coordinated research, publication plans (details will be provided)		120	1330
Break		30	1530
Reports from breakout groups		40	1600
Wrapup discussion		30	1640
Adjourn			1710