DC3 potential intercomparisons 26 January 2012			= 3 platforms =2 platforms						
Intercomparable			-						
species		GV	07070	DC-8		Falcon			
	500	02	CSD CL	03					
03	FO3	03	DIAL HSRL	O3 profiles	UV Absorption	03			
	· · · · · · · · · · · · · · · · · · ·			NO2					
NO,NO2	CL NOx	NO2	TD-LIF	NO2 NO2					
	CL NOx	NO	CSD CL	NO	CL	NO			
HNO3	GT-CIMS	HNO3	SAGA CIT-CIMS	HNO3 HNO3	CIMS	HNO3			
NOy			CSD CL	NOy	CL	NOy			
PAN			GT-CIMS	PANs SANG SPNG	CIMS	PANs			
	GT-CIMS	HNO4	CIT-CIMS	HNO4					
			Carbon						
нсно	CAMS	нсно	DFGAS	НСНО					
снзсно	TOGA	СНЗСНО	PTR-MS	СНЗСНО					
со	UV Fluorescence	CO	DACOM	CO	UV Fluorescence	СО			
СО2 СН4	PICARRO	СО2	AVOCET	CO2	PICARRO	CO2			
СНЗСМ	TOGA	CH3CN	PTR-MS	CH3CN	FICALINO	CII4			
			CIT-CIMS	organic acids (Table 2)					
				selected OVOCs (Table 2) isoprene hydroxynitrates.	<u> </u>				
			CIT-CIMS	hydroxyperoxides,					
				dihydroxyepoxides					
etc (Table 2)	TOGA	VOCs, OVOCs, CFCs	PTR-MS	Fast OVOC and NMHC	canisters	VOCs, halocarbons			
			HOx and Perox	kides		I			
Peroxides	P-CIMS	Peroxides	CIT-CIMS	Peroxides					
			Radiation	ОН, НО2					
Spectral Irradiance	HARP	Irradiance	SSFR	Solar and near IR Irradiance					
Actinic Flux	HARP	Actinic Flux	CAFS	Actinic flux	Filter Radiometer	J(NO2)			
Broadband Irradiance	RAF-Irradiance	broadband UV, shortwave, IR	BBR	Broadband solar and IR					
	VCSEL	water vapor							
H ₂ O vapor	RAF-EDPC	water vapor	DLH	water vapor					
Dew/Frost point	RAF-DPX CU Total Water	Dew/Front Point temperature	X	Dew/Front Point temperature					
	RAF-LWC	Liquid water content							
			Other						
<i>SO2</i>	GT-CIMS	SO2	GT-CIMS	SO2	CIMS	SO2			
	GT-CIWIS		CIT-CIMS	HCN					
			DACOM	N2O					
			CIT-CIMS	organic acids	absorption tubes	PFC tracer			
			Cloud Droplet & Pa	rticle Size					
Particle Number	CN	particle number, >10nm	CN	particle number, >10nm	3 x CPC	particle number, >5nm			
				and the sumbar of the second	2	particle number, >10 nm, non-			
			CN	particle number, >10nm, neated	3 X CPC	volatile			
		particle size distribution, 10-	CN	particle number, >3nm					
Particle Size	SMPS	500nm	SMPS	300nm					
		particle size distribution 60	SPEC	Aerosol parameters		particle size distribution 70			
	UHSAS	1000nm	UHSAS	1000nm	UHSAS-A	1000nm			
Particle Size			UHSAS	particle size distribution, dry and					
				humidified		narticle size distribution 140-			
					PCASP-100X	1000nm			
			LAS	particle size distribution, 0.1-5 um					
			APS	particle size distribution, 0.5-5um					
			DASH-SP 02 Apr	f(RH) clouds & precipitation					
			021710						
	3V-CPI	cloud particle imaging							
Claud Dantiala Ciaa	2D-C	cloud particle imaging	5000	alarrah alarah sina aliakatkan kiran	500 200	sing distribution 0.4.20			
Cioua Particle Size	CDP	cloud droplet size distribution	FCDP	cloud droplet size distribution	F225-300	size distribution 0.4-20um			
					2 x Grimm OPC 1.29	size distribution 0.25-2um (total/non-volatile)			
Particle Composition and Optical Properties									
			PALMS	Single particle composition					
			AATS-14	Aerosol Optical Depth					
				Aerosol scattering (Total,					
			Anderson-Neph	submicron), f(RH) @450, 550, 700					
				nm					
			Anderson-PSAP	Aerosol absorption (Total,					
				nonvolatile) @467, 530, 660 nm					

			Brock-Filter	Total absoption @467, 530, 660 nm						
			Brock-Photoacoustic	Total (@405, 532, 660 nm), RH @ 532 (dry, 85% RH), λ dependence, BC-clear coatings (@532), BC- brown coatings (@405 nm)						
			Brock-CRD PI-Neph DIAL-HSRL DIAL-HSRL DIAL-HSRL CCN Dibb-filters Dibb-filters Dibb-filters (+Weber) Dibb-mist chamber	aerosol extinction (dry @405, 532, 660 nm; wet @75%, 95% RH, λ dependence, gas-phase @405, 532, 660 nm) polarized phase function aerosol backsctter profiles depolarization profiles aerosol extinction profiles CCN number bulk inorganic ions (Table 3) organic compounds (Table 3) fine sulfate						
			LARGE	Aerosol measurements - includes Martin Polar Neph	3-lambda-PSAP	absorption coefficient				
Black Carbon			HD-SP2	Black carbon aerosol, dry & wet	SP2	black carbon				
Meteorology										
Winds	RAF-WINDS	wind direction & speed	MMS	wind direction & speed	Х	wind direction & speed				
Temperature	RAF-ATX	temperature	MMS	temperature	Х	temperature				
Pressure	RAF-PSXC	corrected static pressure	MMS	corrected static pressure	X	corrected static pressure				
37	32	-	67	-	23	_				