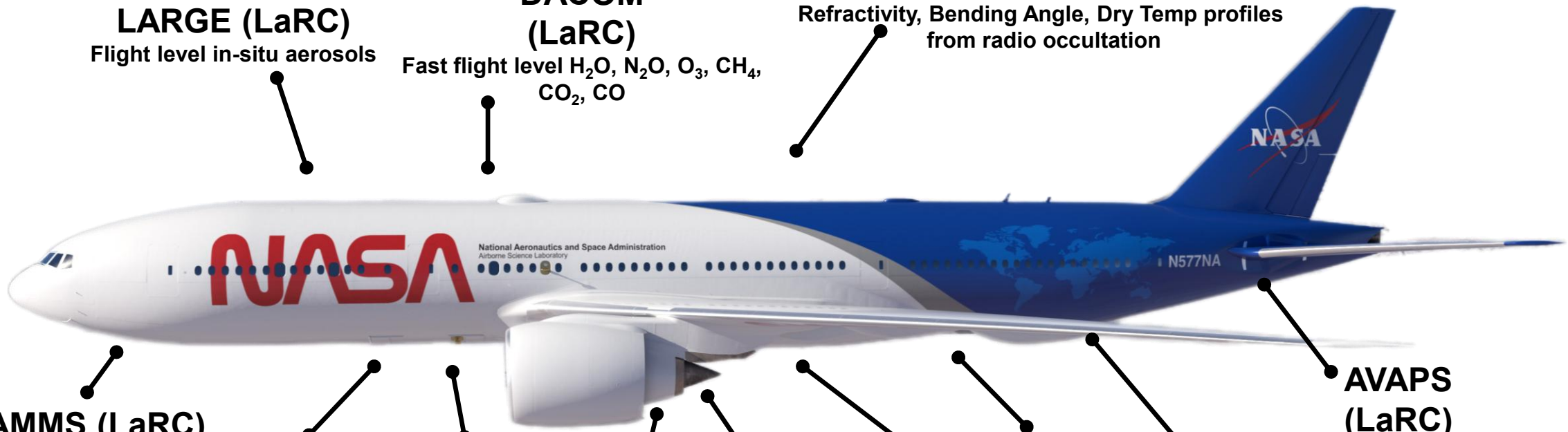
NURTURE LaRC B777 Scientific Payload



LARGE (LaRC)
Flight level in-situ aerosols

DLH
DACOM
(LaRC)
Fast flight level H_2O, N_2O, O_3, CH_4, CO_2, CO

ARO (Scripps Oceanographic Inst.)
Refractivity, Bending Angle, Dry Temp profiles from radio occultation

AVAPS
(LaRC)
Temp profiles
H_2O profiles
Pressure profiles
3-D wind profiles

TAMMS (LaRC)
Fast flight level 3-D winds

HALO
HSRL-2
(LaRC)
H_2O profiles
O_3 profiles
Aerosol profiles
Cloud profiles

AWP (LaRC)
3-D wind profiles

S-HIS
(U. Wisconsin)
Temp profiles
H_2O profiles

COSMIR-H
COSSIR
(GSFC)
Cloud properties
Snow fall rate
Temp profiles
H_2O profiles

APR-3
VIPR
Cloud Cube
(JPL)
Ka-, Ku-, W-, G-band reflectivity, precipitation rates, Doppler velocity, In-cloud H_2O profiles

MBARS
(GSFC)
Surface pressure

BBR
(Naval post graduate school)
Upwelling radiation

NURTURE LaRC G-III Scientific Payload

Trace Gasses (LaRC)
Fast flight level N_2O, O_3, CH_4, CO_2, CO

ARO (Scripps Oceanographic Inst.)
Refractivity, Bending Angle, Dry Temp profiles from radio occultation



Cloud Cube (JPL)
Ka-, W-, G-band reflectivity, precipitation rates

HALO (LaRC)
H_2O profiles
Aerosol profiles
Cloud profiles

AVAPS (LaRC)
Temp profiles
H_2O profiles
Pressure profiles
3-D wind profiles