NASA Global Hawk Overview

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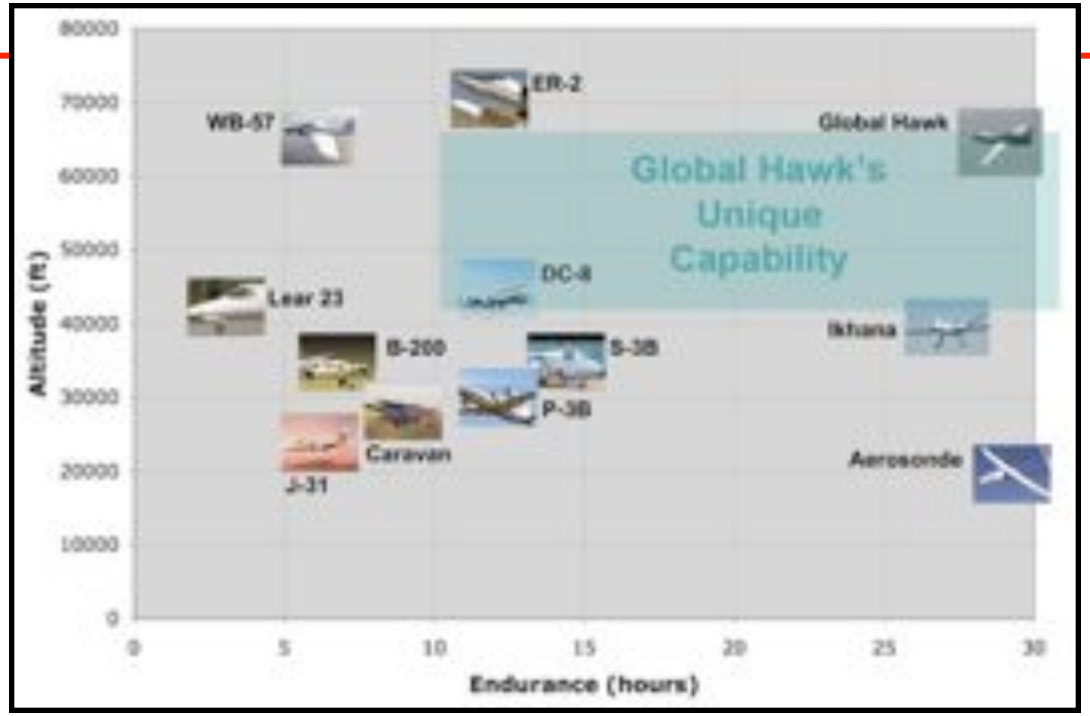
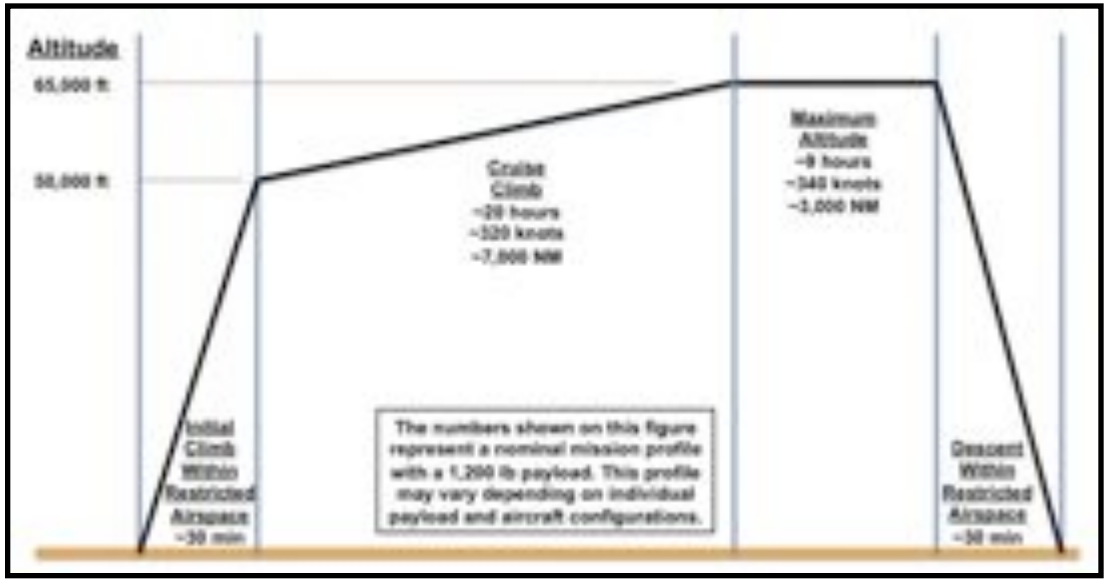
Why Global Hawk For NASA?

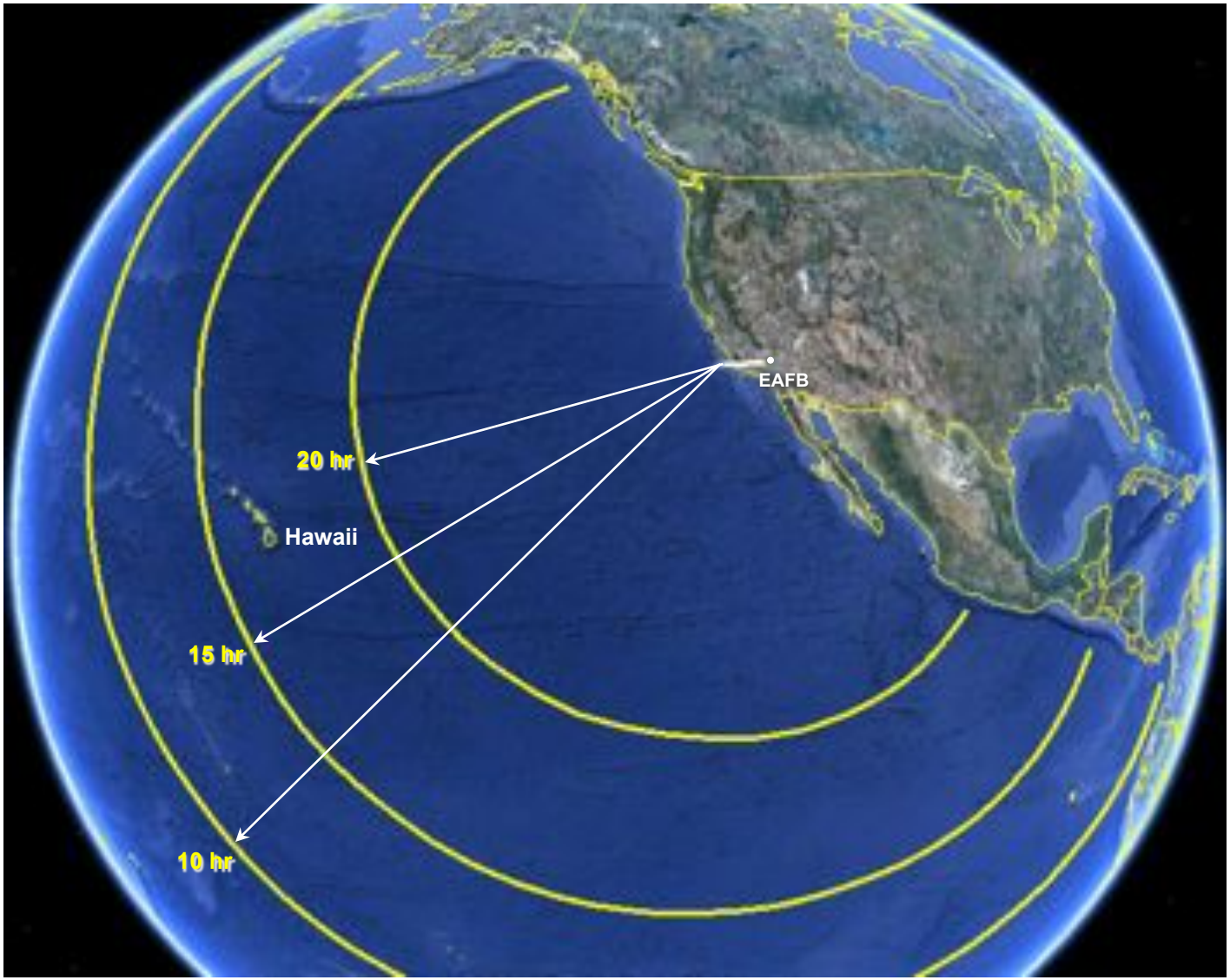


Endurance	> 30 hours
Range	>10,000 nmi
Service Ceiling	65,000 ft
Airspeed (55K+ ft)	335 KTAS
Payload	1,000-1,500 lb
Take-off Weight	26,750 lb
Length	44 ft
Wingspan	116 ft



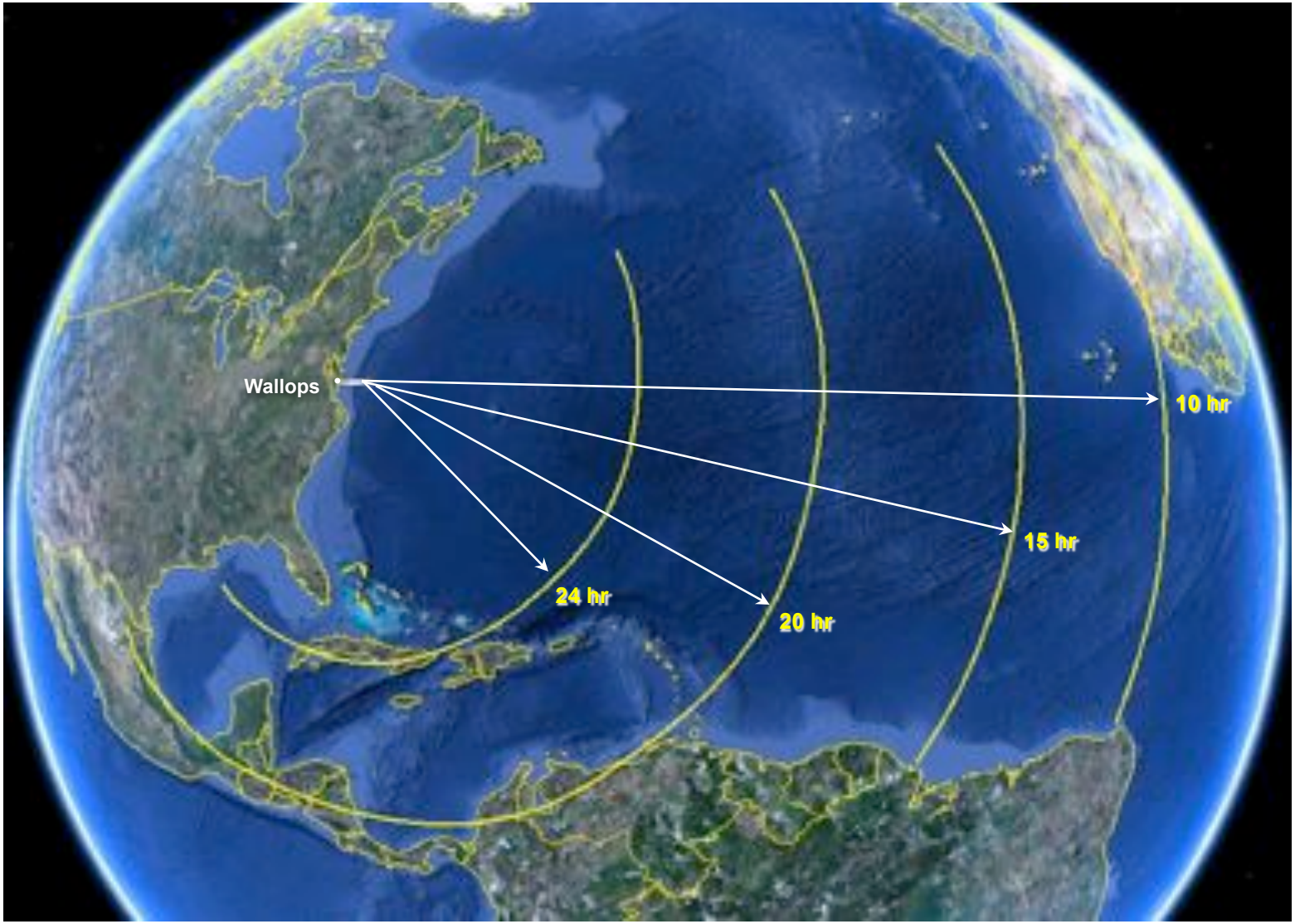
NASA Global Hawk
Operational Capability - Pacific

Arcs Represent On-Station Times – Launch & Recovery from EAFB



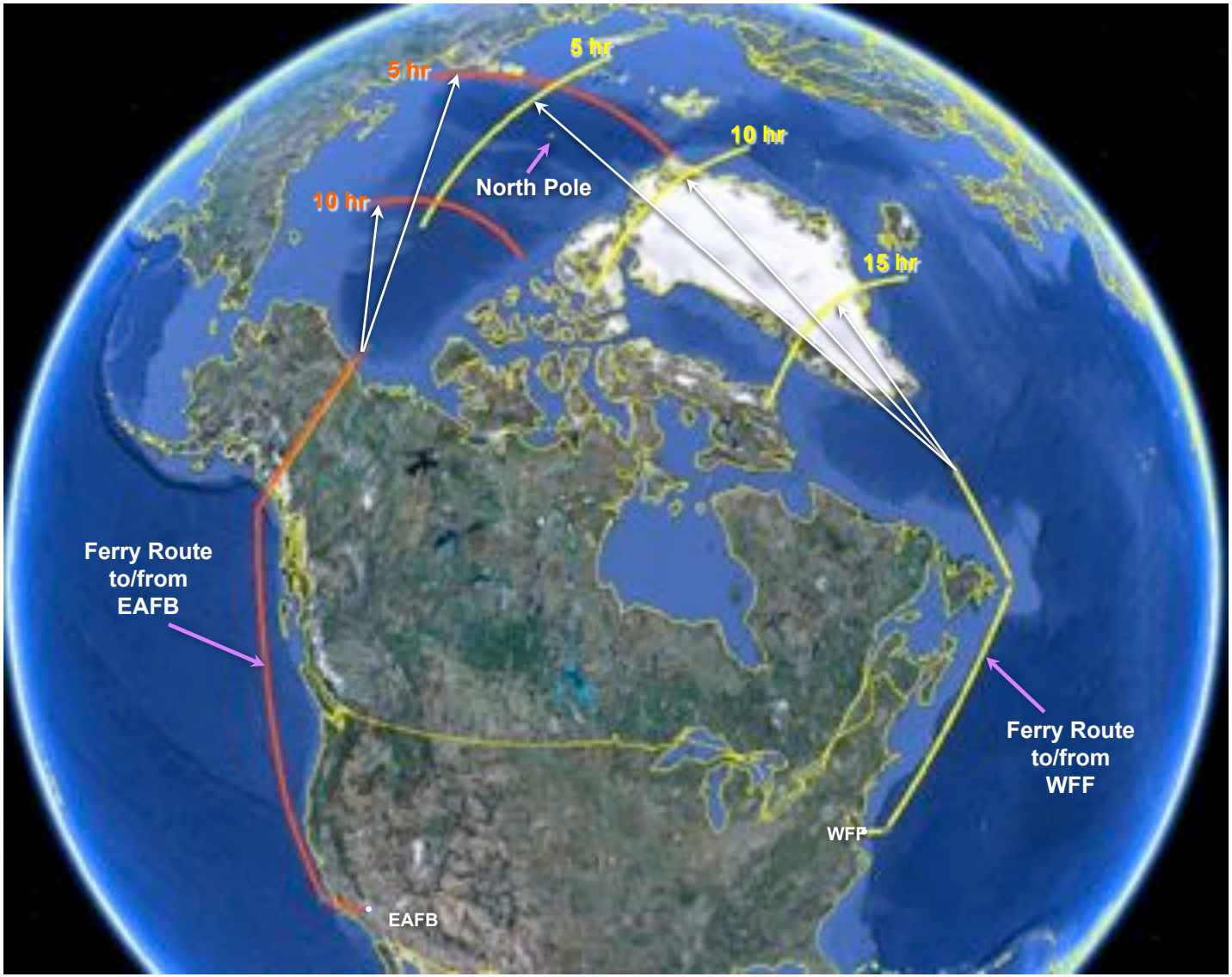
NASA Global Hawk
Operational Capability – Gulf/Atlantic

Arcs Represent On-Station Times – Launch & Recovery from Wallops, VA



NASA Global Hawk
Operational Capability – Arctic

Arcs Represent On-Station Times – Launch & Recovery from EAFB or WFF



GHOC Fully Staffed During the First Hurricane Mission

Global Hawk Science Flights Through 2011

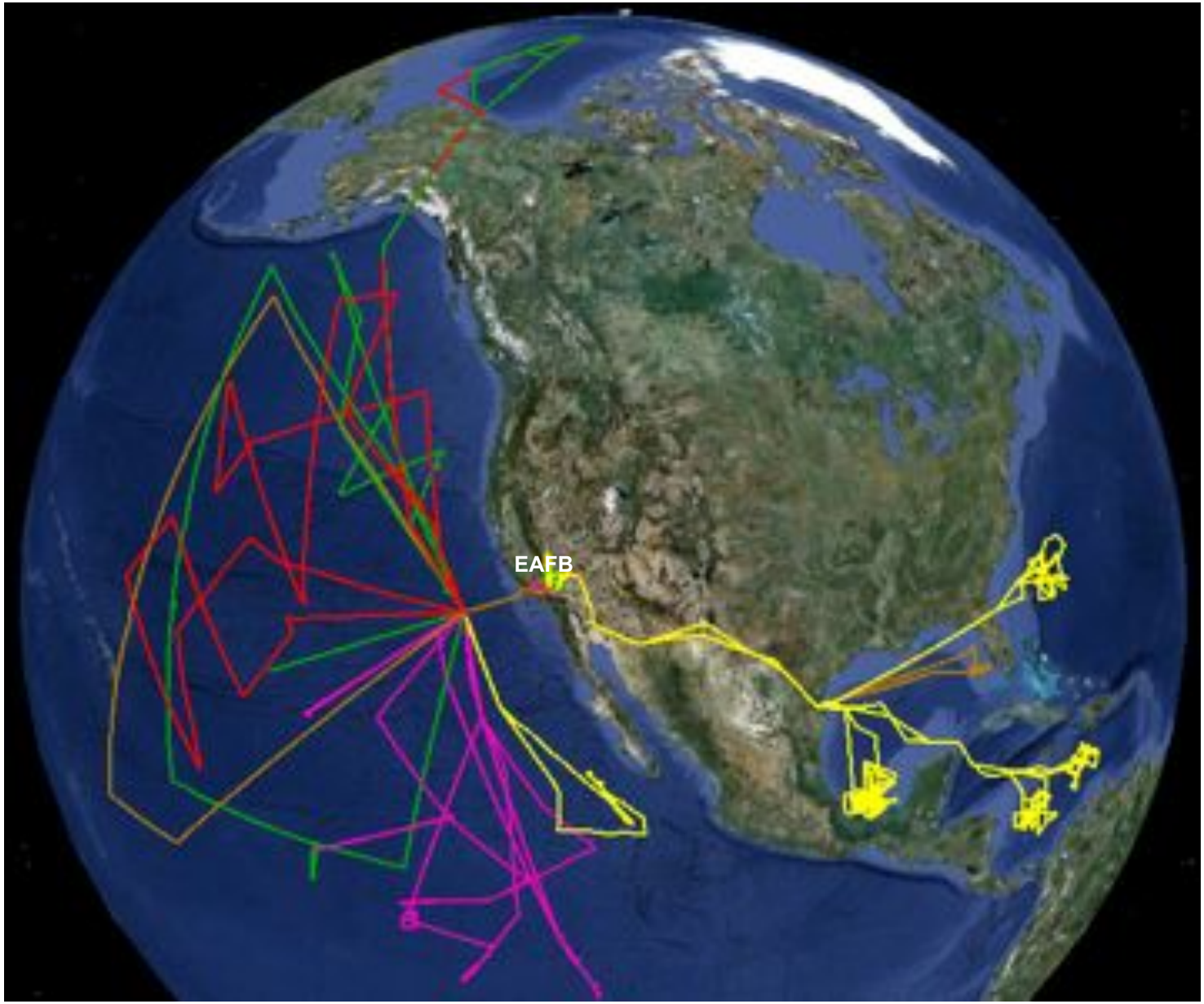
Global Hawk Pacific (GloPac) April 2010

Genesis and Rapid Intensification Processes (GRIP) Aug-Sept 2010

Winter Storms and Pacific Atmos. Rivers (WISPAR) Jan-March 2011

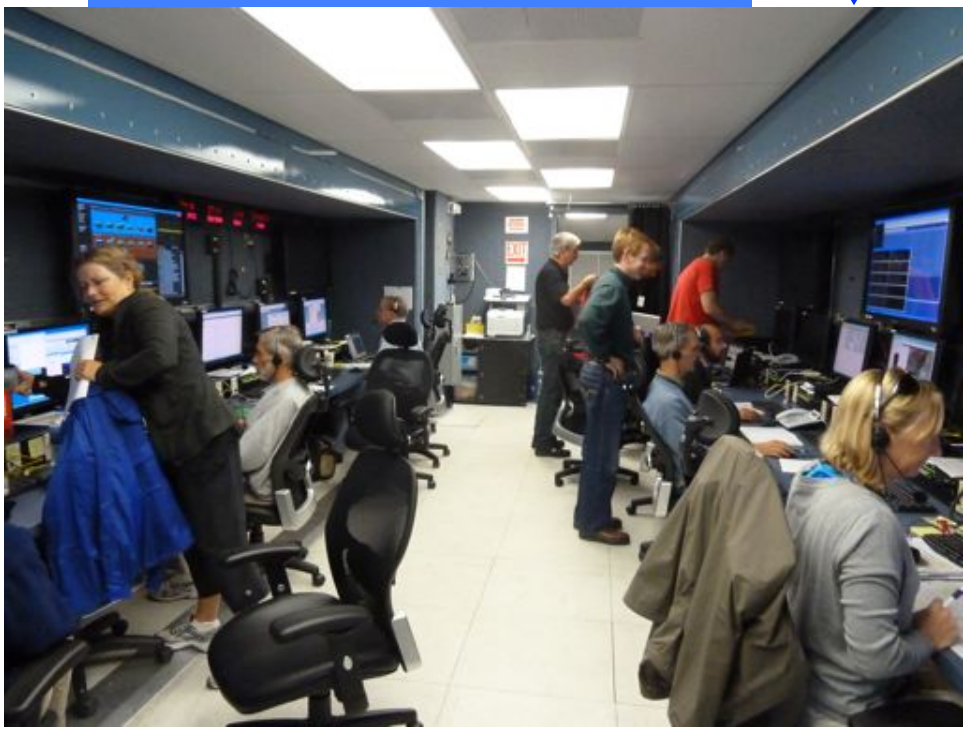
Hurricane and Severe Storm Sentinel (HS3) Sept 2011

Airborne Tropical Tropopause Exp. (ATTREX) Nov 2011



Ground Control Stations at WFF

Payload Mobile Operations Facility



Global Hawk Mobile Operations Facility

First Global Hawk Flight to WFF

September 6-7, 2012

Touchdown at Wallops Flight Facility

Flight Crew – Phil Hall and Jon Neuhaus

Global Hawk Operations Center
Wallops Flight Facility, VA

50th Flight Celebration, Nov 2011

NASA Global Hawk is supported by multiple organizations:

Northrop Grumman Corporation – Program Partnership
NASA Airborne Science Program – NASA Sponsor
National Oceanic and Atmospheric Administration – Science Partnership

Texas Coast During
Ferry to Hurricane Karl