# IFEX 2010 NOAA's plans for Summer 2010 (updated May 2010)

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# **2010 HRD Field Program Updates**

- Continuation of IFEX objectives
- ~700 hours total for all aircraft
- N42RF (P-3) will be available by June 1, N43RF available August 1, N49RF (G-IV) available early June
- Crews available for two-per-day missions starting early July (Tampa and deployments)
- Near completion of Hurricane Field Program Plan

# Focus areas for 2010

### IFEX goal 1: Collecting observations for model initialization/evaluation

- Doppler radar
- Synoptic surveillance
- HWRFx/HFIP real-time runs

### **IFEX goal 2: Developing and refining measurement technologies**

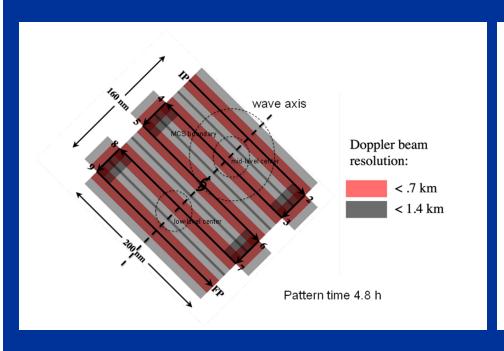
- HIRAD
- Doppler Wind Lidar
- Ocean winds/AWRAP
- Coyote low-level UAS
- Global Hawk high-level UAS

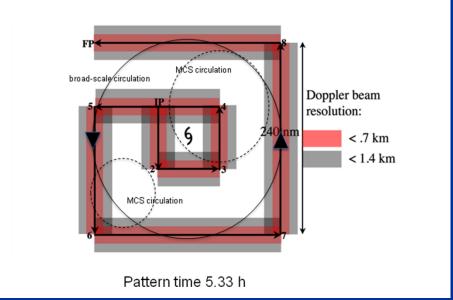
### **IFEX goal 3: Improving understanding**

- Tropical Cyclogenesis Experiment
- Rapid Intensity Change Experiment
- Saharan Air Layer Experiment
- TC-Ocean Interaction Experiment
- Tropical Cyclone Landfall and Inland Decay Experiment
- Arc Cloud Module
- Hurricane Boundary Layer Entrainment Flux Module

# **Genesis Experiment: P-3 pre-genesis survey patterns**

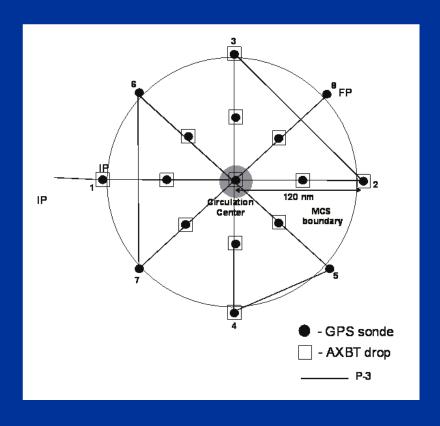
### Aircraft at 10-12,000 ft altitude





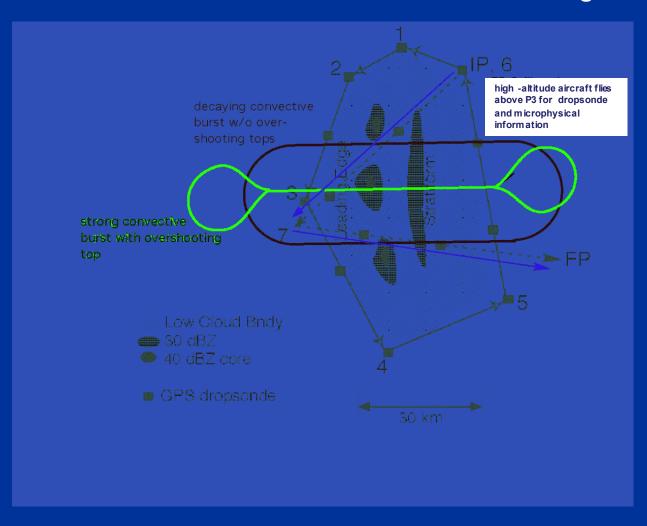
# **Genesis Experiment: P-3 post-genesis patterns**

Aircraft at 10-12,000 ft altitude

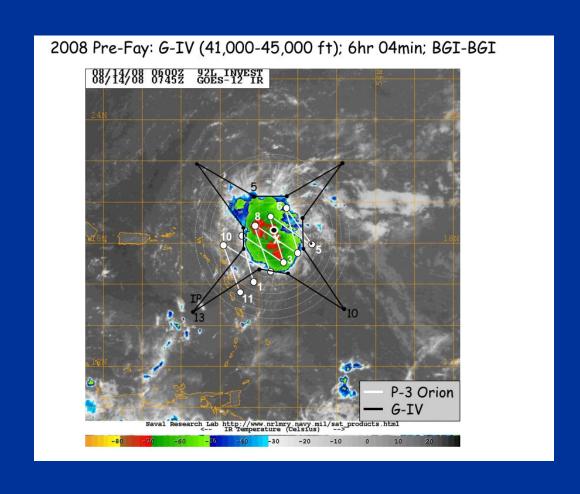


# **Genesis Experiment: P-3 convective burst module**

Aircraft at 10-12,000 ft altitude for first circumnavigation, penetration 2000 ft altitude for second circumnavigation

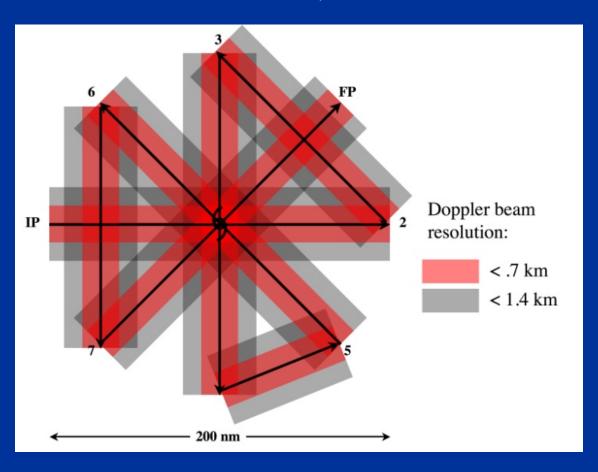


# Genesis Experiment: G-IV starfish pattern (in black)



# Rapid Intensification Experiment: P-3 Rotating Figure-4 pattern

### Aircraft at 10-12,000 ft altitude



# Rapid Intensification Experiment: G-IV pattern

