



2011 NOAA's Intensity Forecasting Experiment (IFEX)

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Intensity Forecasting Experiment (IFEX; Rogers et al., BAMS, 2006) THE INTENSITY FORECASTING EXPERIMENT ANDA MUltipur lied from the Program for Incroving Tracked Cycles Intensity Forecasts return forecast, and many the Auto 200 miles (institute in the Intensity Forecasts) return forecast, and many the Auto 200 miles (institute in the Intensity Forecasts) return forecast, and many the Auto 200 miles (institute in the Intensity Forecasts) return forecast, and the Auto 200 miles (institute in the Intensity Forecasts) return forecast, and the Auto 200 miles (institute in the Intensity Forecasts) return forecast in the Auto 200 miles (institute in the Intensity Forecasts) return forecast in the Auto 200 miles (institute in the Intensity Forecasts) Intensity of the Intensity of the Intensity Forecasts Intensity of the Intensity Forecasts Intensity of the Intensity of the Intensity Forecasts Intensity of the Intensit

IFEX Goals



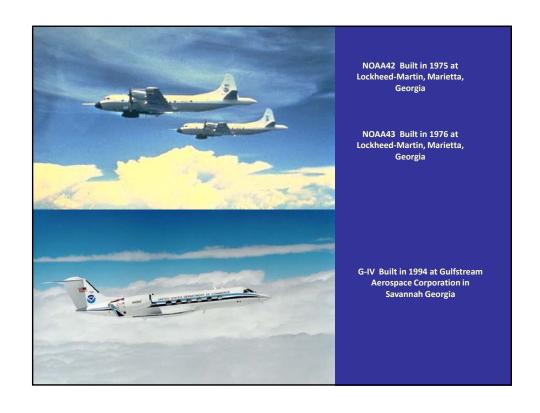
- Intended to improve prediction of TC intensity change by:
 - 1. collecting observations throughout the TC life cycle for model initialization and evaluation
 - 2. developing and refining measurement technologies for real-time monitoring of TC intensity, structure, and environment
 - 3. improving understanding of physical processes important in TC intensity change

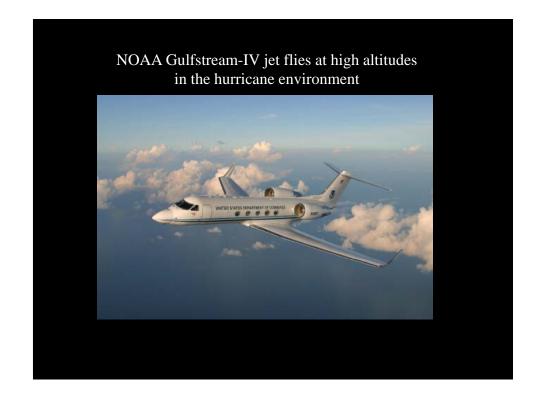
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2011 IFEX Plans

- Continue addressing IFEX/HFIP goals
- Sustain our partnerships with EMC and NESDIS
 - Continue TDR missions and real-time Doppler data transmission
 - Collaborate with NESDIS Ocean Winds Experiment
 - Coordinate with 53rd on float/drifter deployments
- Strengthen our interactions with NHC
- Fly operationally tasked missions
 - Based on EMC's and/or NHC's operational need
 - Selected modules may be attempted
- Encourage greater awareness in broader TC community

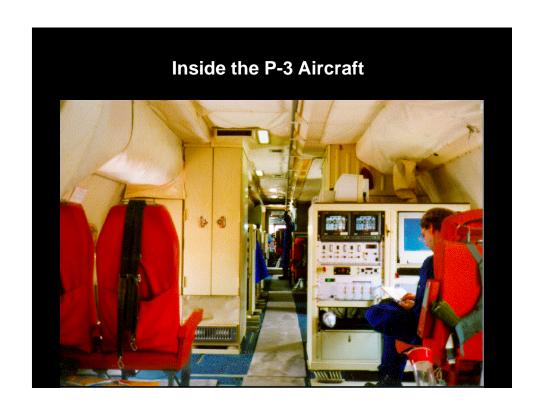
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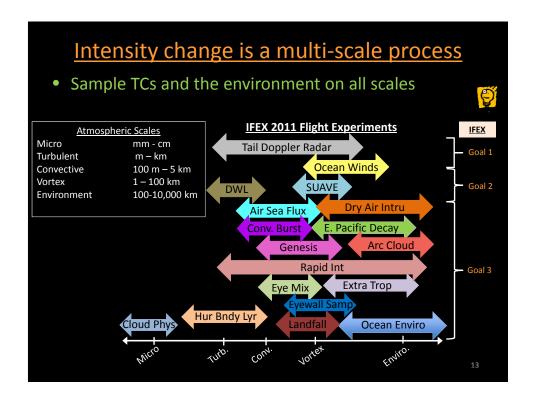


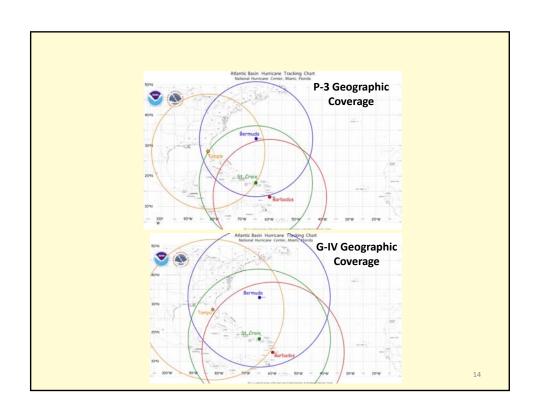






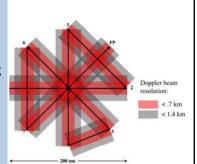






Tail Doppler Radar Experiment (TDR)

- Provide a comprehensive wind data set for initialization and evaluation of hurricane models (e.g. HWRF)
- Provide data sets to increase understanding of intensity change, using regular, periodic, collection
- 2 P-3 Flights per day--on-station time centered on 0 and 12 UTC analysis periods (8 and 20 UTC take-off)
- -optimum 3 days of flights in a row starting at tropical depression or maybe pre-depression stage

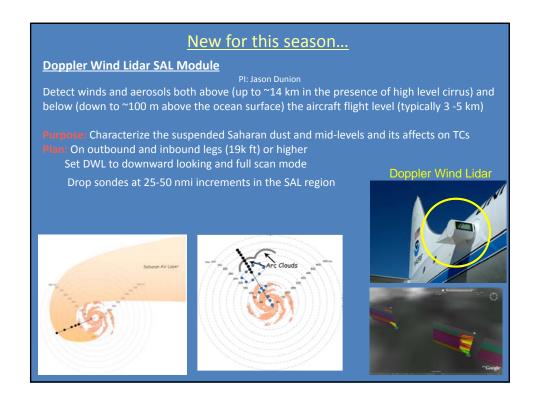


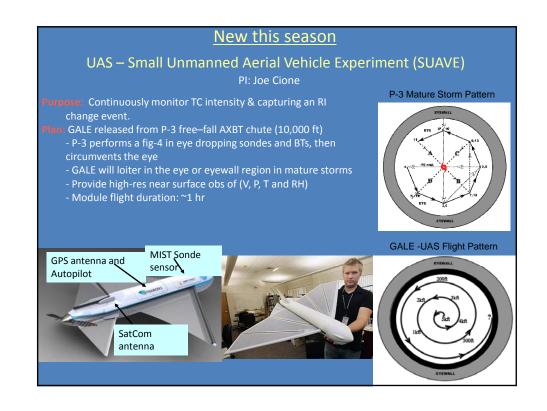
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Resulting data analyses from TDR missions

- Assimilation development at HRD
- Composite storm-structure studies
- Observing System Experiments (OSEs)
- Evaluation of error characteristics of airborne
 Doppler data and analyses

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Logistics

Daily Schedule

- 9AM Conf call/meeting with IFEX participants (if needed)
- noon Wx Discussion
- 1PM issue alert to AOC (if needed)
- HRD daily map discussions (25 July-29 October)
 - noon start time
 - goto meeting info available

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