

2019 HRD HFP Experiments and Modules

Genesis Stage

1. Favorable Air Mass (FAM) Experiment >> *Alaka*
2. Pouch Evolution during Genesis Experiment >> *Alaka*
3. Precipitation Mode (PMODE) Experiment >> *Zawislak*

Early Stage

1. Analysis of Intensity Change Processes Experiment (AIPEX) >> *Rogers & Zawislak*
2. Convective Burst (CB) Structure and Evolution Module (CBM) >> *Rogers*
3. Airborne Doppler Wind Lidar (DWL) Module >> *Bucci*
4. Gravity Wave Module >> *J. Zhang & Nolan*
5. Stepped-Frequency Microwave Radiometer (SFMR) Module >> *Holbach*
6. Tail Doppler Radar (TDR) >> *Reasor and Gamache*

Mature Stage

1. Environment Interaction (TC in Shear) >> *Reasor*
2. Eye-Eyewall Mixing >> *Aberson*
3. Gravity Wave >> *J. Zhang*
4. NESDIS Ocean Winds Experiment >> *Chang*
5. Secondary Eyewall Formation Module >> *Rogers*
6. Stepped-Frequency Microwave Radiometer (SFMR) Module >> *Holbach*
7. Tail Doppler Radar (TDR) Experiment >> *Reasor & Gamache*
8. Tropical Cyclone Diurnal Cycle (TCDC) Experiment >> *Dunion & O'Neill*

End Stage

1. Extratropical Transition Experiment >> *Aberson*
2. Tropical Cyclones at Landfall Experiment >> *Alaka & Holbach*

Ocean Survey Experiment >> *J. Zhang & Shay*

Satellite Validation Experiment

1. ADM-Aeolus Satellite Validation Module >> *Dunion, Curcurull, & Hardesty*
2. NESDIS JPSS Satellite Validation Experiment >> *Dunion & Zawislak*

Synoptic Flow Experiment >> *Dunion & Aberson*