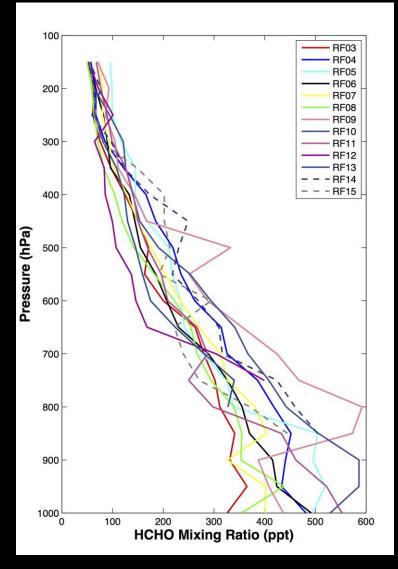
# Overview of Formaldehyde (HCHO) during CONTRAST

#### 27 Feb. 2014 CONTRAST Science Team Meeting Dan Anderson

#### **HCHO Vertical Profiles**

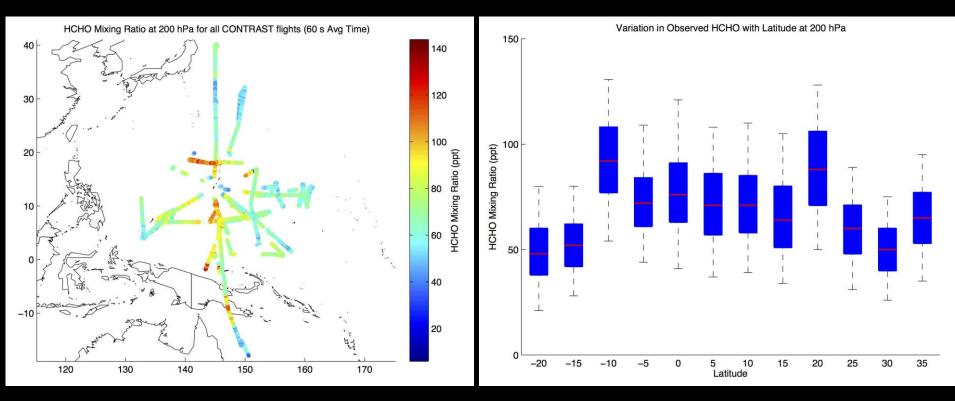
#### Median HCHO Values for CONTRAST Research Flights



- Evidence of elevated HCHO aloft:
  - RF05 at 150 hPa
  - RF14 & 15
    between 300
    and 500 hPa

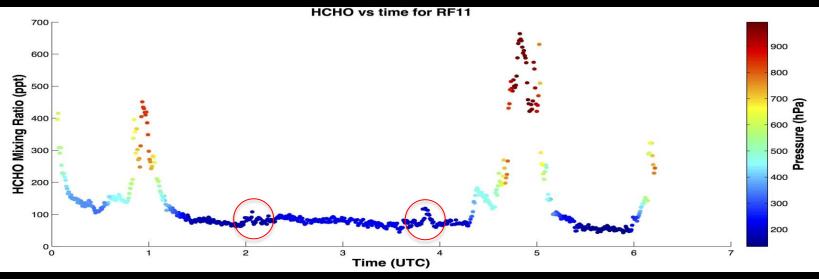
— RF09

## Latitudinal HCHO Distribution

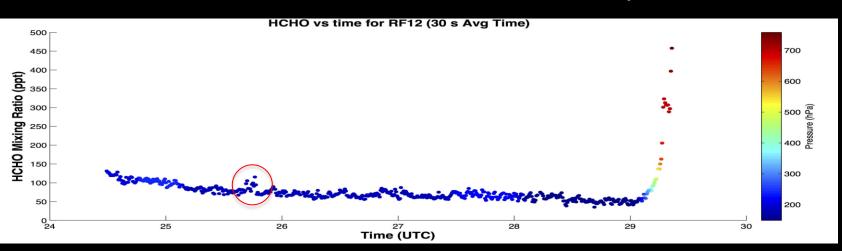


- Influence of emissions from PNG evident
- Southern Hemisphere has slightly lower median HCHO mixing ratios

### Possible Evidence of Recent Convection



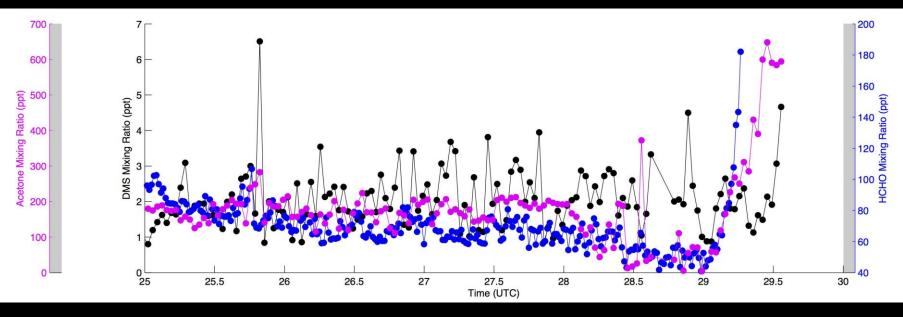
#### Elevated HCHO in RF11 coincides w/ TOGA data



4

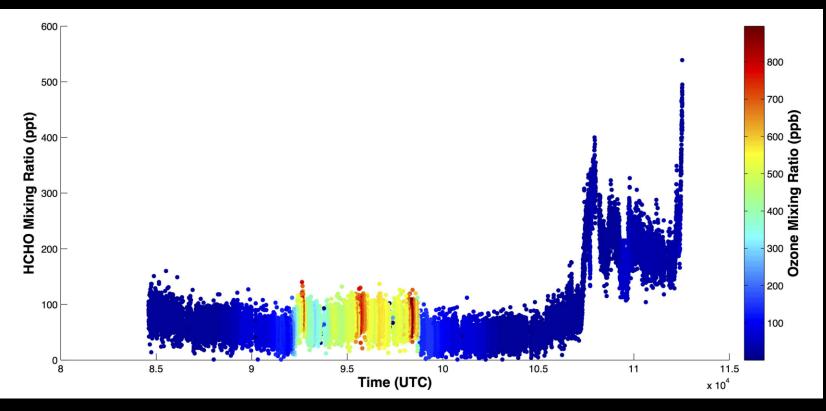
### Possible Evidence of Recent Convection

**RF12 Time Series from ISAF and TOGA Quick Look Data** 



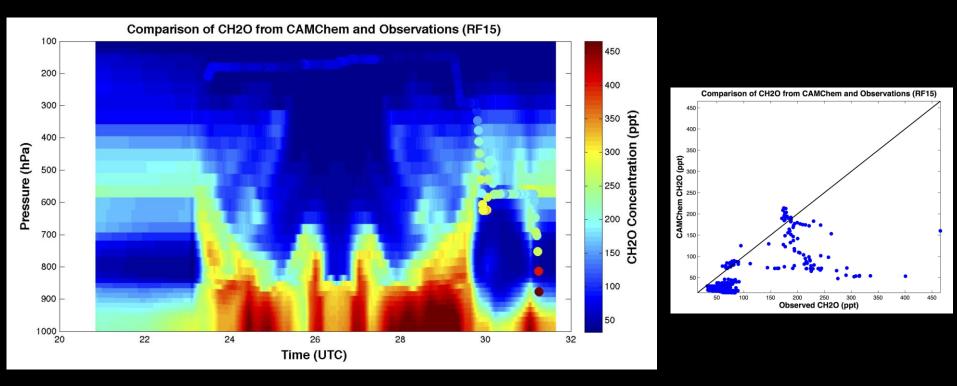
 Slight offset between peak ISAF HCHO and TOGA measured tracers.

#### **Enhanced Stratospheric HCHO?**



- Mixing ratios in stratosphere ~30 ppt higher than in upper free trop.
- Possible enhanced production?

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