

## **Image: Contrails carry clues to more ecofriendly flights**

March 12 2013



Credit: NASA/Eddie Winstead

Puffy white exhaust contrails stream from the engines of NASA's DC-8 flying laboratory in this image taken from an HU-25 Falcon flying about 300 feet behind.

NASA researchers have begun a series of flights using the agency's



DC-8 to study the effects of alternate <u>biofuel</u> on engine performance, emissions and aircraft-generated contrails at altitude.

The DC-8 is using conventional JP-8 jet fuel, or a 50-50 blend of JP-8 and an alternative fuel of hydroprocessed esters and <u>fatty acids</u> that comes from <u>camelina</u> plants.

More than a dozen instruments mounted on the Falcon jet are characterizing the soot and gases streaming from the DC-8, monitoring the way exhaust plumes change in composition as they mix with air, and investigating the role emissions play in contrail formation.

Provided by NASA

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