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*The TexAQS 2000
Field Study Newsletter
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A High time in the ol' town today & tomorrow!

Weather Report

Karl Schulze and Stephanie Naumann provided the weather forecasts today. Today begins with low background ozone levels - 28 ppbv over Galveston and single digits inland.

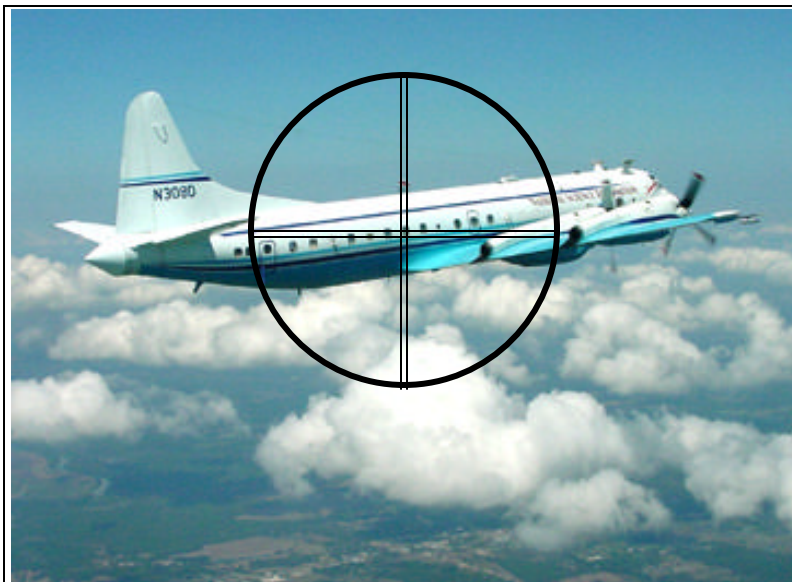
The former "Louisiana" high pressure system has now become the south Texas high pressure system. It was just east of Houston this morning and should be centered over us later this afternoon. The winds should continue to lighten - easterly aloft and southeasterly at the surface. The weak synoptic conditions should support a good sea/bay breeze this afternoon.

The high pressure center should continue to move to the west and, depending on which model you choose, tomorrow morning's surface flow should be light and from the northwest. This northwesterly surface flow should enhance the land breeze circulation - bringing the low level emissions from Houston and the ship channel out over Galveston Bay and

Gulf. This should reverse as the sea/bay breeze comes back mid-day. This, coupled with the elevated background ozone created today should make for a very interesting pollution scenario tomorrow.

unusually elevated, several of the crew did note that it was considerably more hazy than the previous day's flight.

The Electra will be back in action on Wednesday, August 30th, with a morning to mid-day urban characterization flight.



NCAR/NOAA Electra from G-1 Gun Mount Camera

Electra N308D

Monday, the Electra conducted a sea breeze/urban area characterization flight - similar to the Sunday flight - from the Gulf through the north side of Houston. The maximum ozone level encountered was 120 ppbv just north of the city at about 2:00 PM and maximum carbon monoxide levels were about 200 ppbv. While the pollution levels encountered were not

shift its emphasis more to the northern half of the Houston area as the polluted air mass is pushed to the northwest of Houston by the afternoon sea/bay breeze.

The G-1 - again in concert with the Twin Otter - will fly two similar urban characterization flights tomorrow.

G-1 N701BN

The G-1 will conduct two flights today, alternating with the Twin Otter to get improved temporal coverage across the day. The G-1 morning flight (9:30 AM) will emphasize characterization of the chemistry and transport over the bay and to the southeast quadrant of the Houston area with a single loop around the city. The afternoon flight at 2:30 PM will

DC-3 N56KS

As predicted, it's a beautiful day in the neighborhood for the TexAQS 2000 eye-in-the-sky DC-3/Lidar crew and a full flight is planned. A noon takeoff is anticipated for the DC-3 with the flight lasting for 4 to 6 hours while crossing and criss-crossing the Houston metro area.

A similar mid-day flight is planned for tomorrow.

Twin Otter N153BU

Today's Twin Otter flights will be sandwiched between G-1 flights to provide good temporal coverage of what promises to be a most excellent ozone day - the noon to 1 PM maximum surface ozone is 110 ppbv at the Baytown (HRM-7) with the second high (80 ppbv) further east at Mont Belvieu.

The early morning flight will takeoff at 7:00 AM. This land breeze characterization flight will be followed at noon by a sea breeze & source characterization flight.

The Twin Otter will conduct similar flights tomorrow.

VIP Day

Two Congressional staffers will be visiting TexAQS 2000 on Wednesday, August 30th. Mr. Tom Vanek from the Energy and Environment Subcommittee of the House Science Committee will be travelling from Washington DC. Mr. Vanek will be accompanied by Mr. Andrew Larkin of NOAA's Office of Legislative Affairs. Both Mr. Vanek and Mr. Larkin will fly on board the NCAR/NOAA Electra during its Wednesday research flight. Also visiting will be Mr. Chris Devaney of Texas Senator Phil Gramm's Staff.

VIP Agenda

8:30 AM Study Briefing (CapRock Building) - Peter Daum, Fred Fehsenfeld, and Jim Meagher

9:30 AM NCAR/RAF Safety Briefing (NASA Hangar)

10:30 AM Electra Takeoff for research flight (Ellington Field)

12:30 PM Electra Landing (Ellington Field)

1:00 PM Box Lunch (CapRock Building)

1:30 PM Leave for LaPorte Airport Site

1:45 PM Tour of La Porte Airport Site

4:00 PM Leave for Intercontinental Airport

Upcoming Events

Don't forget to park in the Employee's/Deliveries Lot.

TNRCC/EPA Region 6 Data Analysis Meeting Tuesday, August 29th - 10:00 AM to 4:00 PM (Ellington, CapRock Conference Room)

VIP Day - Wednesday, August 30th (Ellington, Southwest Services)

Aerosol Group Meeting - Thursday,

August 31st, 2:00 PM (Ellington, CapRock Conference Room)

LaPorte Team Meeting - Thursday, August 31st, 3:00 PM (Ellington, CapRock Conference Room)

Mystery Meeting - Thursday, August 31st, 4:30 PM (Ellington, CapRock Conference Room) - I don't remember who called me about this or what the meeting's for but I did remember that there **is** a meeting!

Labor Day Holiday - Monday, September 4, 2000. Business as usual for TexAQS 2000.



Trooper of the Day

Chuck Brock has been named the Trooper of the Day by Cathy Burgdorf for providing the proper answer to the declarative "jump," to which Chuck replied "how high?" For his willingness to go the extra mile, Chuck is today's TOD!

Thought for the Day

"I have not failed. I've just found 10,000 ways that won't work."

-Thomas Edison



Plumes from Ship Channel businesses punch through inversion and initiate formation of cumulus clouds (8:30 AM)