

Highlights

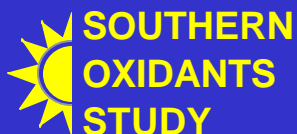
- Hot & stagnant weather continues
- P-3 and Helicopter & Caribou fly tomorrow.
- "Official" VIP Tour Schedule for Thursday, July 8.

Inside

- VIP Tour Schedule for Friday, July 9.
- Meetings moved!
- SOS Directors Dr. Ellis Cowling to visit.

The Daily Plan-it

*The SOS Field Study
Newsletter
Issue 20
July 7, 1999*



News to use from around the SOS world

Weather Update

Continuing hot and humid with chance of precipitation increasing over the weekend. hot and humid weather..

SOS Airforce Schedule



The **P-3** will depart BNA at 11:00 AM CDT to conduct a brief combined Nashville/TVA Gallatin Steam Plant plume characterization study. The aircraft will undertake a series of northwest-to-southeast crosswind legs (assuming the transport direction is north east) in the planetary boundary layer (nominally 1500 ft AGL) beginning immediately downwind of Gallatin Steam Plant and ending about 20 km downwind of Nashville. Seven crosswind legs are anticipated. The plume characterization flight will be preceded by a calibration flight to the west of Nashville between 15000 ft AGL and 25000 ft AGL. Total flight time is estimated at 2 hours and so it should return to BNA at about 1:00

PM It is anticipated that Congressional Staffers will be on board for this short flight.

The **Caribou** will depart John Tune Airport at 12:00 noon CDT to fly an urban characterization pattern consisting of a sequence of five 20 nautical miles (n mi.) crosswind legs centered on Nashville's Cornelia Fort Air Park at a separation of 5 n mi. This pattern will be repeated once (i.e., flown a total of twice), as illustrated. The initial crosswind leg to be flown 10 n mi. upwind of Nashville. Pattern orientation will depend on wind direction. The aircraft will return to John Tune at approximately 3:30 PM CDT.



The **Bell 205** will depart Dickson Municipal Airport at about 0715 CDT for an urban characterization flight.. The aircraft will ferry to a point near the SW corner of Davidson County (expected to be downwind of the Downtown (Polk Building) sampling site), traverse to the Cornelia Fort site at about 500 ft. AGL, and do an ascent to approximately 2500 ft AGL.

The aircraft will then traverse to directly over the Downtown sampling site and, subject to BNA FAA controller limitations, descend to minimum altitude. It will then traverse at about 500 ft AGL to approximately the SE corner of Davidson county (I-24) and begin a series of four crosswind traverses (expected to be about 60°) ending near the SW corner of Davidson county, then traversing to BNA and landing at Signature.



During the second portion of the flight, the helicopter will depart BNA at about 1330 CDT, traverse to the Cornelia Fort Air Park at about 500 ft. AGL, and do an ascent to the top of the boundary layer or approximately 5000 ft MSL (whichever is lower). The aircraft will then traverse to directly over the Downtown sampling site and, subject to FAA controller limitations, descend to minimum altitude. It will then traverse at about 500 ft AGL to near the SE corner of

Davidson county (intersection of Davidson, Williamson and Rutherford counties) and begin a series of four traverses perpendicular to the wind direction (expected to be about 60°) ending about 5 km E of Fairview. The helicopter will then ferry back to Dickson, using a dolphin pattern to the top of the boundary layer. If time permits, helicopter will go north of Dickson airport and overfly the Dickson sampling site before landing.

VIP Tour Thursday, July 8

Several NOAA and TVA invited Congressional Staffers will be here Thursday for a day-long fact finding tour of SOS that may include an experimental flight on the P-3. The following congressional staffers will be accompanied by **Andrew Larkin** from NOAA Legislative Affairs, **Tom White** from Department of Commerce Legislative Affairs and **Mary Anne Whitcomb** from OAR headquarters and **Tim Meeks** from TVA.

Tom Vanek/House Science Committee, **Brian Wagner**/Rep. Ken Calvert, **Bart VerHulst**/Sen. Bill Frist's Field Representative, **Emily Brooks**/Sen. Fred Thompson's Field Representative.

9:00 AM - Gassaway Building. Overview of study by Ellis Cowling, Jim Meagher, and others. All aircraft

should be in position (near the P-3) at Signature Aviation by 9:30 AM.

10:00 AM to 1:00 PM - BNA Airport. Tour of P-3, Caribou, Bell 205, and, G-1.

1:00 PM - Box Lunch at Gassaway Building. SOS planning tools.

2:30 to 3:30 PM - Cornelia Fort Airpark. Eric Williams, Len Stockburger, and Jochen Stutz should be on standby for presentations.

4:00 PM - Return to Hotel. Wrap-up.

VIP Tour Friday, July 9

A second formal half-day tour is scheduled for Friday, July 9, 1999 for some TVA dignitaries, representatives of Tennessee Environmental Organizations, and EPRI. The schedule for this visit is as follows

9:00 AM - Gassaway Building. Overview of study by Jim Meagher and Fred Fehsenfeld.

10:00 AM to 11:30 AM - BNA Airport. Outside Tour of P-3 and inside tour of Bell 205.

12:00 PM - Lunch at Gassaway Building. Question and answer session

1:30 PM - Arrive at Cornelia Fort Airpark. Eric Williams, Len

Stockburger, and Jochen Stutz should be on standby for presentations.

2:30 PM - Return to Gassaway. Wrap-up.

Meetings & Changes

The **PBL Team Meeting** moves to Wednesday afternoon at 3:30 PM

The **Science Team Meeting** moves to Friday Night at 8:00 PM due to VIP visit schedule.

Don't forget to mark your calendars!

Thoughts for the Day

“We must use time creatively, and forever realize that the time is always ripe to do right.”

- Nelson Mandela

“When you are content to be simply yourself and don't compare or compete, everybody will respect you.”

- Lao-Tzu

“If you were going to die soon and had only one phone call you could make, who would you call and what would you say? And why are you waiting?”

- Stephen Levine