

## CalNex Forecast Notes - Saturday, May 22, 2010

### Anticipated Activities of Platforms

#### WP-3D

**Sat May 22:** No Flight (50-hour maintenance work).

**Sun & Mon May 23 & 24:** Expect a flight Sunday, weather permitting, and a flight Monday, weather permitting, to tour LA and to tour the southern San Joaquin Valley once (each) during the day and repeating the tour after the sun sets. These would be slated for 4 PM takeoffs and 10 PM landings, plus or minus.

**Wed May 25:** No Flight.

**NOAA Twin Otter:** Sunday afternoon "test flite" in LA Basin & Mojave Desert (stratospheric intrusion, satellite comparison)

**CIRPAS Twin Otter:**

**NASA King Air:**

**R/V Atlantis:** LA Bight

### Local Features:

**Sunday:** P3 afternoon & evening flight

**SoCal:** WNW winds 25-30kts offshore, 20-25kts coast, and 15-20kts over basin; 20-25kt winds in mts & desert; good AQ

**Bkfld:** NW winds 5kts in valley, 15-20kts in mtns; chance of showers; good AQ

**Monday:** P3 afternoon & evening flight

**SoCal:** WNW winds 20-25kts outer waters, 15-20kts inner waters, and 5-10kts over basin; 10-20kt winds in mts & desert; good AQ

**Bkfld:** NNW winds 5-10kts in valley, 15-20kts in mtns; small chance of showers; good AQ

**Recommendation:** fly SoCAB on Sunday and San Joaquin Valley on Monday

**California Synoptic Overview** - NO FORECAST TODAY

**Large Scale Transport Notes** - Brad Pierce (brad.pierce@noaa.gov))

**LA/Arvin AIRNOW Site Comparison**

Good O3 AQ at LA and Arvin during FX period

Moderate PM2.5 LA AQ during FX period

Good PM2.5 Arvin AQ during FX period

Recent O3 analysis underestimates LA peak good agreement at Arvin. PM2.5 low at LA and Arvin

**LA/SF AIRNOW Ensemble**

LA Long-range transport to northeast during FX period.

North Eastward component of SF Long-range transport aligns with LA transport during FX period.

**500m RDF FX 00Z 05/23 (Sat Afternoon)**

Intercontinental CO enhancement over western US, mixture of

Intercontinental+Western US pollution along cold front with significant

(~70ppbv) O3 enhancement over Eastern CO

Low (<5 ppbv/day) background O3 P-L over LA&SF. Moderate (5-10ppbv/day) along cold front

**500m RDF FX 00Z 05/24 (Sun Afternoon)**

Intercontinental CO enhancement over western US, mixture of

Intercontinental+Western US pollution along cold front with significant

(~60ppbv) O3 enhancement over NM

Low (<5 ppbv/day) background O3 P-L over LA&SF. Enhanced (10-15 ppbv/day) O3 P-L ahead of Cold front

**500m RDF FX 00Z 05/25 (Mon Afternoon)**

Intercontinental CO enhancement over western US with weaker CO/O3 gradient across front then previously predicted. Clean maritime airmass coming onshore

Moderate (5-10 ppbv/day) background O3 P-L over LA

Moderate (5-10 ppbv/day) O3 P-L ahead of old front

**500m RDF FX 00Z 05/26 (Tue Afternoon)**

Intercontinental CO enhancement over western US. Clean maritime airmass coming onshore

Moderate (5-10 ppbv/day) background O3 P-L over LA&SF

Moderate (5-10 ppbv/day) O3 P-L ahead of cold front

**Area Forecast Details**

**San Francisco Bay Area** - NO FORECAST TODAY

**Sacramento Valley** - NO FORECAST TODAY

**San Joaquin Valley** – NO FORECAST TODAY

**Central Coast** - NO FORECAST TODAY

**SoCal Coastal Waters** - Lee Eddington (Lee.Eddington@navy.mil)

See slides for COAMPS modeled winds and clouds

**South Coast** - NO FORECAST TODAY