

U.S. DEPT. OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY  
DIGITAL OZONESONDE CHECKLIST

FLT # 44564

Huntsville

**INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.**

DATE (LOCAL): 4/4/09 PUMP CURRENT: 87.72 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: WC/BH PUMP PRESSURE: > 10 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: ~~878~~ PUMP VACUUM: 22  
228106  
ADD 3.0 CC CATHODE SOLUTION:  (v) Short the cell leads:  (v)  
WAIT 2 MINUTES:  (v) Add about 2.5 CC more Cathode Solution (2Z)  (v)  
ADD 1.5 CC ANODE SOLUTION:  (v) Place Instrument inside plastic bag:  (v)  
RUN 20 MINUTES ON NO O<sub>3</sub>:  (v) Store inside Styrofoam flight box:  (v)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.41  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 4/18/09 **DRY T100**  
INITIALS: WTC/SL #1: 28.09  
Cathode solution date written on bottle: 7/16/08 #2: 28.26  
CHANGE CATHODE SOLUTION (3cc):  (v) #3: 28.23  
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No) DRY AVG: 28.19  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v) **WET T100**  
RECORD THE NO O<sub>3</sub> BACKGRND#1: **BG1**= 0.018  $\mu$ amps #1: 28.67  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v) #2: 28.68  
**AVERAGE T100:** 29.25 #3: 28.62  
WET AVG: 28.65  
**RESONSE TIME**  
SWITCH TO NO O<sub>3</sub> AIR.  
**RECORD:** THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 29.59 sec. \*T100 Flowrate correction. 1.52 %  
**RECORD:** ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 22  
**RECORD:** 5 - T100 FLOWRATE TIMES:

**DAY OF FLIGHT @ THE LAUNCH SITE.**

FLIGHT NUMBER: HU564  
GMT DATE: 4/18/09 LOCAL DATE: 4/18/09  
GMT LAUNCH TIME: 18:12:57 LOCAL TIME: 1:00  
BALLOON TYPE 1200 Gram: Kaymont  Scientific Sales  (v one)  
O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.018  
VAISALA NUMBER (9 digit): 188322840 SKY CONDITIONS: Partly Cloudy  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_ ~ BURST PRESSURE (mb): 5.637  
Altitude: 35.09 km

REMARKS: \_\_\_\_\_

weighoff = \_\_\_\_\_ grams

\*T100 flow corr (%) = [(WET/DRY)-1.0] X 100