

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

FLT # HU528

Huntsville

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

DATE (LOCAL): 08/16/08 PUMP CURRENT: 87.62 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: SL/BM PUMP PRESSURE: >10 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 227864 PUMP VACUUM: 25

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>: = 0.538  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 8/17/08 **DRY T100**  
INITIALS: SL & BM #1: 28.77  
Cathode solution date written on bottle: 8/24/07 #2: 28.85  
CHANGE CATHODE SOLUTION (3cc):  (v) #3: 28.69  
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No) DRY AVG: 28.77  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v)  
RECORD THE NO O<sub>3</sub> BACKGRND#1: **BG1**= 0.087  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

**T100 FLOWRATE TIMES:**  
FLOWRATE #1: 29.59 sec  
FLOWRATE #2: 29.58  
FLOWRATE #3: 29.55  
FLOWRATE #4: 29.54  
FLOWRATE #5: 29.56  
**AVERAGE T100:** 29.56

**WET T100**  
#1: 29.00  
#2: 29.07  
#3: 29.03  
WET AVG: 29.03

**RESONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 52.47 sec.

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 48

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 0.90%

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

FLIGHT NUMBER: HU528  
GMT DATE: 8/17/08 LOCAL DATE: 8/17/08  
GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_

BALLOON TYPE 1200 Gram: Kaymont  Scientific Sales \_\_\_\_\_ (v one)

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.087

VAISALA NUMBER (9 digit): 119203314

SURFACE PRESSURE: \_\_\_\_\_

SURFACE TEMP. (C): \_\_\_\_\_

SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb): 9.249/ALT: 31,900

REMARKS: Launch with coincident Lidar and MAX-DOAS measurements

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

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