*U.S. DEPT. OF COMMERCE*
*NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION*
*CLIMATE MONITORING AND DIAGNOSTICS LABORATORY*

**DIGITAL OZONESONDE CHECKLIST** **Huntsville**

***FLT #*** HU569

## INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/9/09
INITIALS: WC
PUMP NUMBER: 2Z8121

PUMP CURRENT: 85.13
PUMP PRESSURE: 11
PUMP VACUUM: 24

30 MINUTES HI $O_3$ ✓(√)
5 MINUTE NO $O_3$ ✓(√)

ADD 3.0 CC CATHODE SOLUTION: ✓(√)
WAIT 2 MINUTES: ✓(√)
ADD 1.5 CC ANODE SOLUTION: ✓(√)
RUN 20 MINUTES ON NO $O_3$ ✓(√)

Short the cell leads: ✓(√)
Add about 2.5 CC more Cathode Solution (2Z) ✓(√)
Place Instrument inside plastic bag: ✓(√)
Store inside Styrofoam flight box: ✓(√)

Record the current after the 20 MINUTES ON NO $O_3$: = 0.414 µamps

## FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/16/09
INITIALS: WC
Cathode solution date written on bottle: 4/17/09
CHANGE CATHODE SOLUTION (3cc) : ✓(√)
CHANGE ANODE SOLUTION (1.5cc): ✓(Yes/No)
RUN ON NO $O_3$ FOR 5 MINUTES: ✓(√)
RECORD THE NO $O_3$ BACKGRND#1: **BG1**= 0.026 µamps
RUN ON 5 microamps of $O_3$ for 10 Minutes: ✓(√)

*T100 FLOWRATE TIMES*:
FLOWRATE #1: 28.50 sec
FLOWRATE #2: 28.39
FLOWRATE #3: 28.39
FLOWRATE #4: 28.41
FLOWRATE #5 28.49
**AVERAGE T100:** 28.43

**DRY T100**
#1: 28.19
#2: 28.04
#3: 28.17
DRY AVG: 28.13

**WET T100**
#1: 28.72
#2: 28.68
#3: 28.65
WET AVG: 28.68

*RESONSE* TIME
SWITCH TO NO $O_3$ AIR.
**RECORD:** THE TIME TO DROP FROM 4 TO 1.5 µamps: 23.59 sec.
**RECORD:** ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 67
**RECORD:** 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.95%

## DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU569
***GMT*** DATE : 5/16/09
***GMT*** LAUNCH TIME : 17:56:20

LOCAL DATE: 5/16/09
LOCAL TIME: 12:56:20

BALLOON TYPE 1200 **Gram :** Kaymont ✓ Scientific Sales____ (√ one)

$O_3$ BACKGROUND (µamps from F9 key):

**VAISALA NUMBER (9 digit):** 517104214
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Partly Cloudy

~ BURST PRESSURE (mb) : 9.293
Altitude: 31.37 km

REMARKS:

weighoff =_____ grams

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