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

DIGITAL OZONESONDE CHECKLIST

FLT # HU57

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/20/09
INITIALS: WC
PUMP NUMBER: 278244

PUMP CURRENT: 83.37
PUMP PRESSURE: 11
PUMP VACUUM: 21

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: = 0.522 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 05/30/2009
INITIALS: BH
Cathode solution date written on bottle: 04/17/09
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**= 0.040 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: 39.19 (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.22 sec
FLOWRATE #2: 29.14
FLOWRATE #3: 29.22
FLOWRATE #4: 29.19
FLOWRATE #5 29.12
AVERAGE T100: 29.19

DRY T100
#1: ~~28.59~~ 28.5
#2: ~~28.42~~ 28.4
#3: ~~28.64~~ 28.3
DRY AVG: ~~28.55~~ 28.3

WET T100
#1: 28.59
#2: 28.42
#3: 28.64
WET AVG: 28.55

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 39.19 sec.
RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 48
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 10.6 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU57
GMT DATE : 05/30/09
GMT LAUNCH TIME : 18:18

LOCAL DATE: 05/20/09
LOCAL TIME: 13:18

BALLOON TYPE 1200 **Gram :** Kaymont___ Scientific Sales___ (√ one)

O_3 BACKGROUND (µamps from F9 key):

VAISALA NUMBER (9 digit): 108322655
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: no wind.

~ BURST PRESSURE (mb) : ~~28.96~~ 3.229mb

REMARKS:

weighoff =_____ grams

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