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

DIGITAL OZONESONDE CHECKLIST — Huntsville

FLT # Hn590

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 09/26/09
INITIALS: SL
PUMP NUMBER: 278449

PUMP CURRENT: 90.30
PUMP PRESSURE: 710
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: = 0.450 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/10/09
INITIALS: B
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**= 0.040 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.07 sec
FLOWRATE #2: 28.22
FLOWRATE #3: 28.15
FLOWRATE #4: 28.11
FLOWRATE #5 28.19
AVERAGE T100: 28.15

DRY T100
#1: 27.91
#2: 27.90
#3: 27.86
DRY AVG: 27.89

WET T100
#1: 28.42
#2: 28.47
#3: 28.40
WET AVG: 28.43

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 29.47 sec.
RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 45
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.94 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hn570
GMT DATE : 10/10/09
GMT LAUNCH TIME : 1756

LOCAL DATE: 10/10/09
LOCAL TIME: 1256

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

O_3 BACKGROUND (µamps from F9 key): 0.040

VAISALA NUMBER (9 digit): 308910948
SURFACE PRESSURE: ____
SURFACE TEMP. (C): ____
SURFACE HUMIDITY : ____

SKY CONDITIONS: ____

~ BURST PRESSURE (mb) : ____

REMARKS: ____

weighoff = ____ grams

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