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

FLT # HU 851

DIGITAL OZONESONDE CHECKLIST — Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 1/28/2014
INITIALS: WTC
PUMP NUMBER: 2223098

PUMP CURRENT: 70.00
PUMP PRESSURE: 10 16
PUMP VACUUM: 22

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: = 0.145 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 02/08/2014
INITIALS: NLP
Cathode solution date written on bottle: 239
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**= 0.054 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.39 sec
FLOWRATE #2: 28.47
FLOWRATE #3: 28.33
FLOWRATE #4: 28.21
FLOWRATE #5 28.29
AVERAGE T100: 28.34

DRY T100
#1: 29.07
#2: 29.18
#3: 29.13
DRY AVG: 29.13

WET T100
#1: 29.47
#2: 29.53
#3: 29.53
WET AVG: 29.51

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.03 sec.
RECORD: ROOM TEMP (C) 18.9 ROOM REL. HUMID. (%) 18
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.30%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 851
GMT DATE : 02/08/2014
GMT LAUNCH TIME : 19:00
LOCAL DATE: 02/08/2014
LOCAL TIME: 13:00

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

O_3 BACKGROUND (µamps ~~from F9 key~~): 0.054

VAISALA NUMBER (~~9~~ 5 digit): 21386
SURFACE PRESSURE: 1004.5
SURFACE TEMP. (C): -3.2 C
SURFACE HUMIDITY : 74

SKY CONDITIONS:

~ BURST ~~PRESSURE (mb)~~ ALT. : 33.37

REMARKS:

weighoff = 1700 grams

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