

U.S. MMRCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY
DIGITAL OZONESONDE CHECKLIST

FLT # HU568

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/2/09 PUMP CURRENT: 98.61 30 MINUTES HI O₃ (N)
INITIALS: WC/PB PUMP PRESSURE: 11 5 MINUTE NO O₃ (N)
PUMP NUMBER: 228096 PUMP VACUUM: 22

ADD 3.0 CC CATHODE SOLUTION: (N) Short the cell leads: (N)
WAIT 2 MINUTES: (N) Add about 2.5 CC more Cathode Solution (2Z) (N)
ADD 1.5 CC ANODE SOLUTION: (N) Place Instrument inside plastic bag: (N)
RUN 20 MINUTES ON NO O₃ (N) Store inside Styrofoam flight box: (N)
Record the current after the 20 MINUTES ON NO O₃: = 0.356 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/13/09
INITIALS: WC
Cathode solution date written on bottle: 4/17/09
CHANGE CATHODE SOLUTION (3cc): (N)
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (N)
RECORD THE NO O₃ BACKGRND#1: BG1 = ~~0.013~~ 0.013 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (N)

T100 FLOWRATE TIMES:

FLOWRATE #1: 30.08 sec
FLOWRATE #2: 30.27
FLOWRATE #3: 30.13
FLOWRATE #4: 30.13
FLOWRATE #5: 30.03
AVERAGE T100: 30.12
DRY T100
#1: 28.23
#2: 28.27
#3: 28.17
DRY AVG: 28.22
WET T100
#1: 28.67
#2: 28.69
#3: 28.64
WET AVG: 28.66

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 22.04 sec.
RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 50
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.55%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU568
GMT DATE: 5/13/09 LOCAL DATE: 5/13/09
GMT LAUNCH TIME: 17:39:14 LOCAL TIME: 12:39:14

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (None)

O₃ BACKGROUND (μ amps from F9 key): 0.013

VAISALA NUMBER (9 digit): 723106207
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Cloudy, rain

~ BURST PRESSURE (mb): 7.235
Altitude: 33.45 km

REMARKS: _____

weighoff = _____ grams

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