

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

FLT # HU555

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 2/7/09 PUMP CURRENT: 92.05 30 MINUTES HI O₃ (v)
INITIALS: SL PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 227960 PUMP VACUUM: 21

ADD 3.0 CC CATHODE SOLUTION: (v) Short the cell leads: (v)
WAIT 2 MINUTES: (v) Add about 2.5 CC more Cathode Solution (2Z) (v)
ADD 1.5 CC ANODE SOLUTION: (v) Place Instrument inside plastic bag: (v)
RUN 20 MINUTES ON NO O₃ (v) Store inside Styrofoam flight box: (v)
Record the current after the 20 MINUTES ON NO O₃ = 0.304 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 2/21/09
INITIALS: SK
Cathode solution date written on bottle: 3/4/08
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: **BG1** = 0.01 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.13 sec
FLOWRATE #2: 29.09
FLOWRATE #3: 29.04
FLOWRATE #4: 29.19
FLOWRATE #5: 29.09
AVERAGE T100: 29.11

DRY T100

#1: _____
#2: _____
#3: _____
DRY AVG: _____

WET T100

#1: _____
#2: _____
#3: _____
WET AVG: _____

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.6 sec.

*T100 Flowrate correction: 1 %

RECORD: ROOM TEMP (C) 16 ROOM REL. HUMID. (%) 11

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU555
GMT DATE: 2/21/09 LOCAL DATE: 2/21/09
GMT LAUNCH TIME: 19:37:18 LOCAL TIME: 13:37:18

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 148752444
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: cloudy southerly wind

~ BURST PRESSURE (mb): 31.77 km

REMARKS: _____

weighoff = _____ grams

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