FALL 2002 MAINTENANCE PASS SPECIFIC POINTS OF EMPHASIS (Ver 1.00). To be completed by 12-20-2002.

Note: This signed ORIGINAL must be submitted to the Mesonet F&L Operations Manager for a station visit to be counted against the required visit quota. (Please use BLACK INK for this form to facilitate scanning.)

SITE ID	DATE	ARRIVAL TIME (GMT)	DEPARTURE TIME (GMT)	Tech(s)

Photos of Station, Soil Temp, Heat Flux, and Soil Moisture Plots Taken Upon Arrival 1.

□ Soil temperature plots | SP1; BP1

□ Soil moisture | SS1; SN1

□ Net rad footprint | NF1

□ Inside SE to NW photo across site showing veg height gauge placed 6ft S and 6 ft E of tower taken @ veg height | IH1 □ Outside photo from the south showing vegetation height gauge placed 10 ft S of south fence taken @ veg height | OH

Vegetation Maintenance 2.

□ Vegetation at required height (See reverse side for guidelines)

□ Heat Flux & SPRT plots | HA1 (East); HC1 (Center); HB1 (West)

Bare plot _% covered with veg. upon arrival | Vegetation removed:
Yes
No | Sterilant applied:
Yes
No Bare plot edging installed correctly: □ Yes □ No | Corrected: □ Yes □ No

Bare depth indicator correct on arrival: □ Yes □ No->____cm □ Too Deep □ Too Shallow | Corrected: □ Yes □ No Sod depth indicator correct on arrival:
Yes No->____cm Too Deep Too Shallow | Corrected: Yes No->____cm No->____cm Yes No->____cm No->___cm Yes No->____cm No->___cm No->___cm No->___cm No->___cm No->___cm No->___cm No->__cm No->__cm No->_cm No->

Conduct Pre- and Post-Cleaning Rain Gauge Drip Tests (Location 45 on Keypad with Rain Shunt) 3.

SERIAL NO.	TIME	# of TIPS	# of TIPS	# of TIPS	TIPS	ERROR
		at START	at FINISH	for TEST	EXPECTED	TIPS
Pre-Cleaning						
Post-Cleaning						
Extra - as needed						

General Maintenance (Enter Y or N in every box) [*NOTE* Clean IRT lens with Methanol and Q-Tip]

CLEANING/ LEVELING	CLEAN ON ARRIVAL	CLEANED	LEVEL ON ARRIVAL	LEVELED	CLEANING	CLEAN ON ARRIVAL	CLEANED	WIND SPEED	NOISY BEARINGS	CUPS CLEANED
SRAD					T&RH Shelter			WSPD		
RNET					TA15 Shelter			WS2M		
IRT					TA9M Shelter			WS35		
RAIN					Solar Panel			WS9M		
CNR1					Battery Terminals					
KRYPTON					Volt Reg Terminals					
SONIC								-		

MesoComp Results – If performed at this site 5.

	RELH	TAIR	TA15	SRAD	PRES
1 min. err					
5 min. err					
15 min. err					

Sensor Replacements

Equip. Type	S/N Removed	S/N Installed	TT # (if any)	Ops Notified	Comment

7. Photos of Station, Soil Temp, Heat Flux, and Soil Moisture Plots Taken Upon Departure □ Soil temperature plots | SP2; BP2 □ Soil moisture | SS2: SN2 □ Heat Flux & SPRT plots | HA2 (East); HC2 (Center); HB2 (West) □ Net rad footprint | **NF2** □ Inside SE to NW photo across site showing veg height gauge placed 6ft S and 6 ft E of tower taken @ veg height | IH2 □ Inside photo from NW fence corner to SE showing extent of 3-inch cut | CH

8. Desiccant Replaced (At least every 6 months, replace 4 packs of desiccant and write date on new packs at edge) □ Station departure time from data logger (* 5 mode) recorded at top of form and logger placed in * 0 mode just before securing data logger enclosure

(PLEASE SEE BACK FOR PASS 'NOTES' SECTION AND REMINDERS)

SPECIFIC INSTRUCTIONS

2. Vegetation Maintenance

If outside of station enclosure is **LESS** than **18 inches**, cut inside to **match**. If outside of station enclosure is **GREATER** than **18 inches**, cut inside to **18 inches**.

* Note: Area around rain gauge and tower must be cut to less than 3 inches (to provide firebreak and ease of movement during maintenance). This area should never go past the North guy wire anchor to the East nor closer than 3 feet to the soil moisture stakes (for the North soil moisture plot) to the South. Entry to the station will now be made at the NW corner near the rain gauge to avoid trampling vegetation in the southern area of the enclosure.



3 inch cut should extend no more than 12 inches to south a tower base plate.

7. Install/Replace Plot ID Stakes

Replace all faded, broken, or improperly placed plastic stakes with pine stakes that have been painted safety red or orange.

Place stakes at each end of the south soil moisture plot in the following locations:

- 3 ft south and 2 ft east of the soil moisture reference stake
- 3 ft south and 2 ft west of the soil moisture reference stake

Place stakes 1 foot south of the center of the hole for each soil moisture sensor in the north soil moisture plot and mark the depth of the sensor on the stake with a black paint pen

Place stakes at the point that the heat flux sensor conduit enters the north edge of the main access trench for the sensors (two stakes for a regular OASIS site; three stakes for a Super Site). **PRTA** is located **200 cm south** and **215 cm east** of the soil moisture reference stake; **HF5B** is located **200 cm south** and **15 cm west** of the soil moisture reference stake.

REMINDERS:

- □ Check tower plumbness □ Check guy wire tension
- □ Place FCC License in door packet and adhere to door
- □ If Heat Flux or Soil Moisture plot stakes are broken or missing, replace with painted pine stakes (see instructions above)
- □ Make sure MUX has Mesonet calibration sticker, if not, replace with Mesonet calibrated unit
- □ Be sure ground rod is no higher above ground level than needed for clamp. If so drive deeper or cut off excess.
- □ Try and visit any 2002 unvisited repeater sites in this area
- □ Try and install any needed telnet power switches at bases in this area

Fall Pass 2002 Notes_