Wx Proj Component: Precipitation

Weather Observation & Analysis Project (WxProj) Screen X Instrument #

Example Data Collection Sheet

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DATE	TIME	TEMF	PERA	TURE	Note	Note wick state & instrument					when	TATIC precip is rain gau	,	SKY	Cor	nditi	on	& C	LO	UD		WIN	N D		PRESSURE				COMMENTS
Entered from earliest to late date & time	latest	Max Temp. (יֻֻC)	Min Temp. (💢)	Present Air Temp. (පූදු)	Wet bulb Temp. (۲۵)	F = wick is frozen	Dry bulb Temp. (پير)	e (hPa)	B = Bacharach W = Weksler	Snow Depth (mm)	Snow Water Equivalent (mm)	Rain gauge (<u>mm.)</u> T = Trace	from melted rain	SKY CLR FEW SCT BKN OVC OBSCD MISG		pi Amount (8ths)				희 의 see.	Visu Observ Direction Bearing as an 8 point compass	ntion uper	UNE Weat Stati Direction Azimuth as degrees (°) from north	her on (s/w)	Barometer (mm Hg)	Barometer Temp. (°C)	Corrected Pressure (D.R.a.)		
								<u> </u>	7														110121						
								ervatio			ations.		7														tions.		
								ed obs			observations		T														bserva		
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								a from					╛														m reco		
) value			values from																res fro		
								& RH (%) values from recorded observations.			SWE va																pressu		
								(LP2a) 8			own o		\dashv				-										ir own	H	
								own e			te their																ate the		
								their			calculate																calcul		
								siculate			student will		\dashv				+										Each student will calculate their own pressures from recorded observations.	+	
								t will G			stude																h stude		
								h student will calculate their own e			Each																Eac		
	ı							Each s			<u></u>	-	_									<u> </u>					Ш		

The WxProj data collection sheet remains on the roof top clipboard at all times!

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Example Data Collection Sheet

DATE	TIME	TEM	PERA	TURE	Note	wick	JMIE state & in RH	& inst	trument	Note	when g	TATION precip is ain gauge	Ι~'	(Y C	ond	ition	1 & C	LO	UD		WIN		PRE	SSU	RE	COMMENTS	;	
Entered from earliest to latest date & time		Max Temp. (♀♀)	Min Temp. (💢)	Present Air Temp. 😲	Wet bulb Temp. (ع)	F = wick is frozen	Dry bulb Temp. (🥨)	e (npa)	RH (%) A = Assmann B = Bacharach W = Weksler	Snow Depth (mm.) Ruler measurement	Snow Water Equivalent (mm)	in gauge (mm.) T	CLF FEN SCT BKI OV	W F N C SCD	s g: Amount (8 ^{ths})	ĭ			igi layers you cannot igh see.	Visu Observ Direction Bearing as an 8 point compass	/ation	UNE Weat Station Direction Azimuth as degrees (°) from north	her on (s/w)	Barometer (mm Hg)	Barometer Temp. (°C)	Corrected Pressure (DR3)		
									tions.		JS.															·		
						\dashv			(DDs) & AT (%) values from recorded observations.	\vdash	observations		\perp	_												recorded observations		
								A i) Joen																	d obse		
									M IEV		recorded															ecorde		
						\dashv		1	i G	\vdash	s from		+	+												from		
								11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	1 (36)		E values															pressures		
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	Check dry & present a											ten	1p				s a			nsis							y the same).	
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Wx Proj Component: Precipitation

Weather Observation & Analysis Project (WxProj) Screen X Instrument #

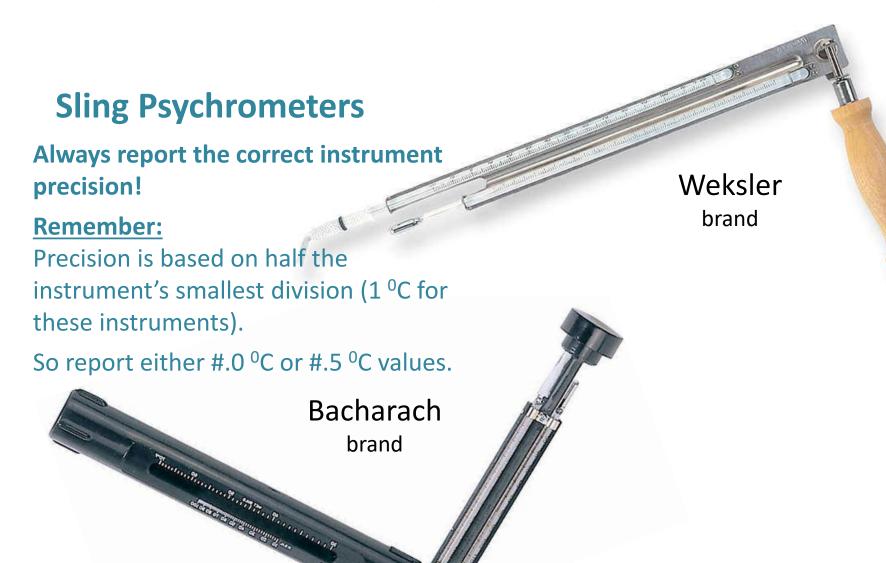
Example Data Collection Sheet

DATE	TIME	IME TEMPERATURE HUMIDITY Note wick state & instru type in RH column									ITATI o precio rain ga	is	SKY	Cor	nditio	n & (CLO	UD		1IW	PRESSURE				COMMENTS		
Entered earliest to date &	o latest	Max Temp. (♀Ç)	Min Temp. (💢)	Present Air Temp. (දුර)	Wet bulb Temp. (⁰Ç)	F = wick is frozen	Dry bulb Temp. (ৣÇ)	e (hPa)	B = Bacharach W = Weksler	Snow Depth (mm) Ruler measurement	Rain gauge (mm.) T = Trace	M = from melted rain gauge	SKY CLR FEW SCT BKN OVC OBSCD MISG		pis Amount (8ms)	Cloud type: Use 2-	3 abbreviations & double dashes for	를 layers you cannot 주 see.	Visu Observ Direction Bearing as an 8 point compass	/ation	Stati Direction Azimuth	her on (s/w)	Barometer (mm Hg)	Barometer Temp. (°C)	Corrected Pressure (DP3)		
						N		ons.	7																		
								servati																	ations.		
					L			(hPa) & RH (%) values from recorded observations.		Each reading: Use the correct code & report																	
								regor		which psychrometer you used here.																	
					L			ls from																			
					L			e) value																			
								S RH (9					n IV n Tv												pressures		
					\vdash			(FPa)								_					<u> </u>	i	I		eir own		
								own e																	ate their		
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The L	NxP	roj	i da	nta	C	oll	lec	Each	on	she	et	re	ema	aiı	15 (on	th	e i	roof	^F to	p cl	ipl	boa	rd .	at	a	oll times!

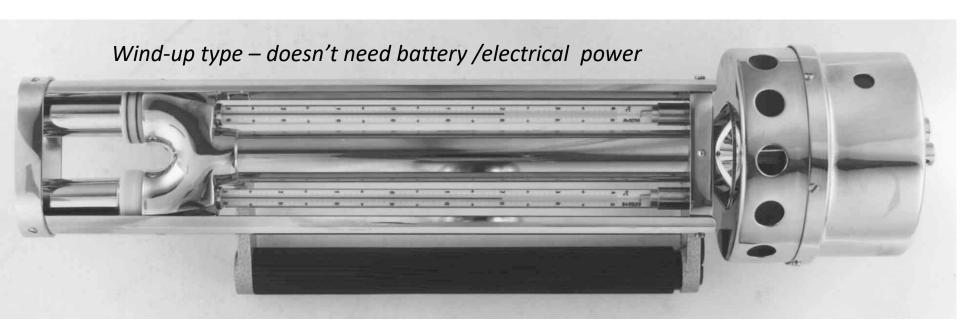
Which instrument we use outside depends on the weather conditions at the measurement time.

Always think about being time efficient.

Psychrometers can cool, T_w can even freeze while you make other observations /measurements!



Aspirated Psychrometers (also known as Assmann psychrometers)



We have one battery powered & one wind-up aspirated psychrometers.

Aspirated Psychrometers

(also called Assmann psychrometers)

Expensive due to very sensitive thermometers!

Responds to people reading it.....

Ours: 2 types:

Battery & Wind-up

What is the most precise reading?

Smallest increments: 0.2 °C

Reading precision: 0.1 °C

To determine the scale:

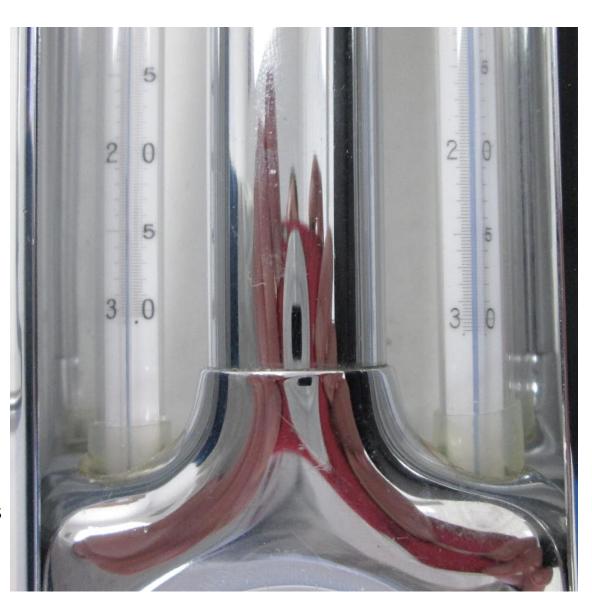
Find (in this order):

0 °C to see the + or - temperatures

5 °C markings

1 ⁰C markings

 $0.2~^{0}C$ markings



Electronic relative humidity & temperature probes

