

SPICE CARE Geonor R2 R3 Field Verification Results

July 15 - 26, 2013

CARE Geonor Transducer Coefficients

Reference Type	Gauge Prefix	Base	Serial #	Transducer Coefficients		
				A	B	f0
R3 Single Alter in DFIR	H2	DFIR	N: 12512	0.0167911	9.14335E-06	1051.7
			SE: 12812	0.0166180	9.16127E-06	1063.6
			SW: 13312	0.0166875	9.13974E-06	1064.3
R2 Single Alter	H6	9	N: 73109	0.0166800	9.19660E-06	1041.1
			SE: 73009	0.0166600	9.18470E-06	1039.0
			SW: 73209	0.0166930	9.17570E-06	1041.7
R2 No Shield	H7	5	N: 76609	0.0165630	9.19730E-06	1049.5
			SE: 76709	0.0167870	9.16090E-06	1044.6
			SW: 76809	0.0169330	9.14920E-06	1051.7

H2 Field Verification Data (Serial #: N - 12512, SE - 12812, SW - 13312)

Date: July 24, 2013

Scale uncertainty (+/-): 0.1 g

Time (UTC)	Approx. Water Volume (L)	Applied Mass		Measured Transducer Frequency						Total Applied Precipitation [Δmflask/20] (mm)		Measured Precipitation						Notes
		mflask, full (g)	mflask, empty (g)	North (Hz)		Southeast (Hz)		Southwest (Hz)		Value	+/-	North (mm)		Southeast (mm)		Southwest (mm)		
				Value	+ / -	Value	+ / -	Value	+ / -	Value	+/-	Value	+/-	Value	+/-	Value	+/-	
14:33:19	0	-	-	1065.9	0.04	1066.2	0.08	1074.6	0.05	0	0.00	2.403	0.001	0.433	0.001	1.729	0.001	0 kg
14:46:26	1	2309.62	1314.94	1320.4	0.04	1327.1	0.05	1333.1	0.05	49.73	0.01	51.719	0.001	50.149	0.001	51.460	0.001	Water

Note: Geonor correction has not been applied to derive measured precipitation where empty bucket frequency difference exceeds 10 Hz (applies to N & SW transducers)

H6 Field Verification Data (Serial #: N - 73109, SE - 73009, SW - 73209)

Date: July 24, 2013

Scale uncertainty (+/-): 0.1 g

Time (UTC)	Approx. Water Volume (L)	Applied Mass		Measured Transducer Frequency						Total Applied Precipitation [Δmflask/20] (mm)		Measured Precipitation						Notes
		mflask, full (g)	mflask, empty (g)	North (Hz)		SE (Hz)		SW (Hz)		Value	+/-	North (mm)		Southeast (mm)		Southwest (mm)		
				Value	+ / -	Value	+ / -	Value	+ / -	Value	+/-	Value	+/-	Value	+/-	Value	+/-	
18:44:19	0	-	-	1058.0	0.06	1068.7	0.06	1059.1	0.13	0	0.00	2.850	0.001	5.032	0.001	2.933	0.002	0 kg
18:54:19	1	2315.96	1312.40	1315.0	0.03	1325.7	0.03	1315.2	0.03	50.18	0.01	52.596	0.001	55.308	0.001	52.521	0.001	Water

Note: Geonor correction has not been applied to derive measured precipitation where empty bucket frequency difference exceeds 10 Hz (applies to N, SE & SW transducers)

H7 Field Verification Data (Serial #: N - 76609, SE - 76709, SW - 76809)

Date: July 22, 2013

Scale uncertainty (+/-): 0.1 g

Time (UTC)	Approx. Water Volume (L)	Applied Mass		Measured Transducer Frequency						Total Applied Precipitation [Δmflask/20] (mm)		Measured Precipitation						Notes
		mflask, full (g)	mflask, empty (g)	North (Hz)		SE (Hz)		SW (Hz)		Value	+/-	North (mm)		Southeast (mm)		Southwest (mm)		
				Value	+ / -	Value	+ / -	Value	+ / -	Value	+/-	Value	+/-	Value	+/-	Value	+/-	
15:39:10	0	-	-	1052.9	0.04	1041.5	0.28	1045.5	0.11	0	0.00	0.572	0.001	-0.522	0.005	-1.053	0.002	0 kg
13:50:55	1	2310.70	1312.40	1314.0	0.03	1300.0	0.08	1305.6	0.07	49.92	0.01	50.247	0.001	48.847	0.002	48.888	0.002	Water

H7 Field Verification Data After Bucket Relevelled (Serial #: N - 76609, SE - 76709, SW - 76809)

Date: July 23, 2013

Scale uncertainty (+/-): 0.1 g

Time (UTC)	Approx. Water Volume (L)	Applied Mass		Measured Transducer Frequency						Total Applied Precipitation [Δmflask/20] (mm)		Measured Precipitation						Notes
		mflask, full (g)	mflask, empty (g)	North (Hz)		SE (Hz)		SW (Hz)		Value	+/-	North (mm)		Southeast (mm)		Southwest (mm)		
				Value	+ / -	Value	+ / -	Value	+ / -	Value	+/-	Value	+/-	Value	+/-	Value	+/-	
13:07:39	0	-	-	1050.6	0.04	1042.2	0.04	1051.7	0.04	0	0.00	0.176	0.001	-0.409	0.001	-0.006	0.001	0 kg
13:17:00	1	2308.56	1315.86	1312.8	0.02	1296.5	0.02	1308.6	0.02	49.64	0.01	49.977	0.000	48.109	0.000	49.532	0.000	Water