



# HydroScat-6 Calibration Certification

Cert Date: **September 25, 2011**

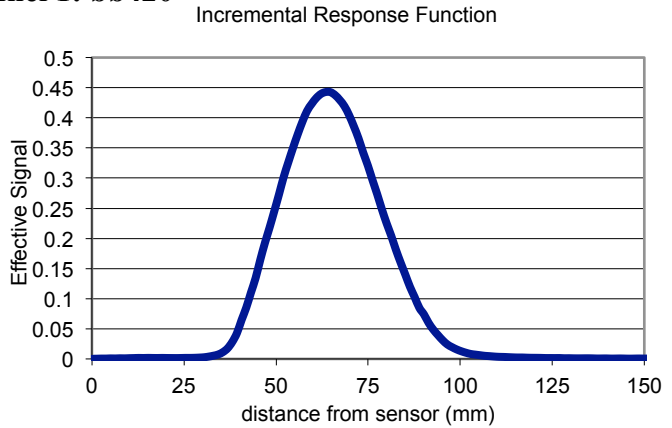
Serial Number: **HS110455**

Configuration: **B2F0**

Technician: CE

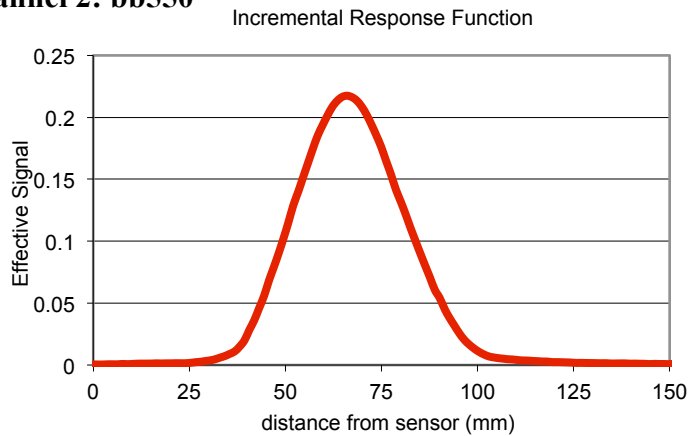
## Channel 1: bb420

mu:	22.43	
mu Rho:	1.1	
SigmaExp:	0.137	
Temp Coeff:	0	
	Gain Factor	Dark Offset
Gain 1:	1.000	6
Gain 2:	9.607	4
Gain 3:	94.965	4
Gain 4:	864.61	13
Gain 5:	9874.1	7



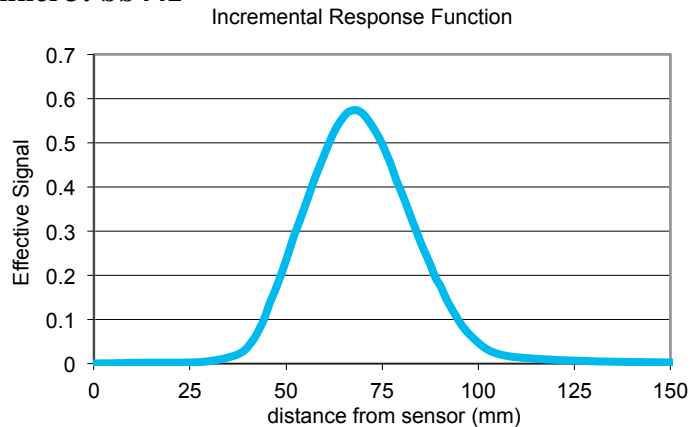
## Channel 2: bb550

mu:	44.51	
mu Rho:	1.1	
SigmaExp:	0.141	
Temp Coeff:	0	
	Gain Factor	Dark Offset
Gain 1:	1.000	8
Gain 2:	9.647	9
Gain 3:	95.075	3
Gain 4:	861.90	6
Gain 5:	9545.9	-4



## Channel 3: bb442

mu:	17.07	
mu Rho:	1.1	
SigmaExp:	0.145	
Temp Coeff:	0	
	Gain Factor	Dark Offset
Gain 1:	1.000	3
Gain 2:	9.563	6
Gain 3:	94.992	6
Gain 4:	869.00	10
Gain 5:	9787.2	54





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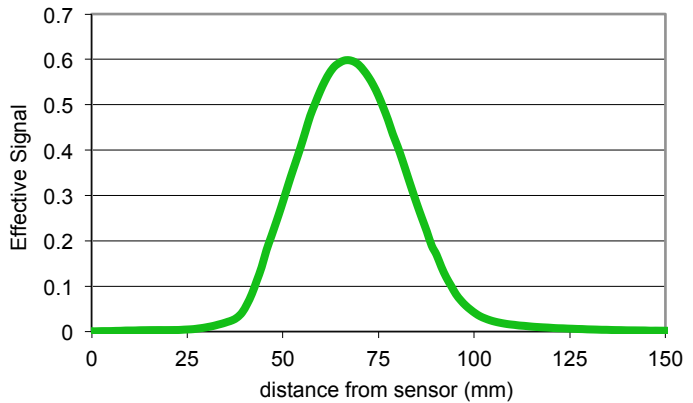
Configuration: **B2F0**

Technician: **CE**

## Channel 4: bb700

Incremental Response Function

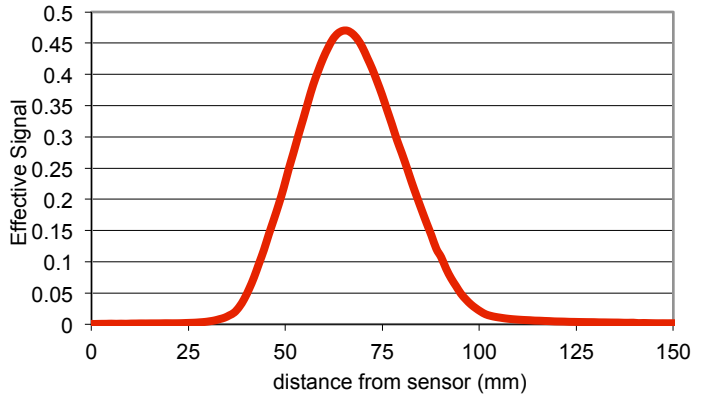
mu:	15.67	
mu Rho:	1.1	
SigmaExp:	0.143	
Temp Coeff:	0	
	Gain Factor	Dark Offset
Gain 1:	1.000	6
Gain 2:	9.603	8
Gain 3:	95.048	9
Gain 4:	866.64	12
Gain 5:	10199.0	145



## Channel 5: bb488

Incremental Response Function

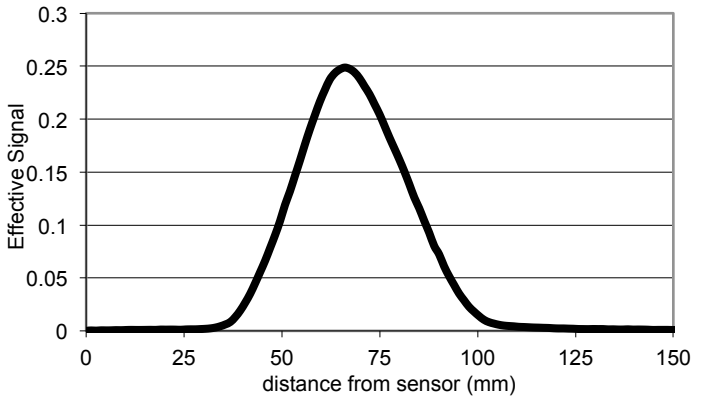
mu:	21.08	
mu Rho:	1.1	
SigmaExp:	0.14	
Temp Coeff:	0	
	Gain Factor	Dark Offset
Gain 1:	1.000	5
Gain 2:	0.000	4
Gain 3:	95.124	2
Gain 4:	864.69	11
Gain 5:	9808.0	137



## Channel 6: bb620

Incremental Response Function

mu:	39.21	
mu Rho:	1.1	
SigmaExp:	0.143	
Temp Coeff:	0	
	Gain Factor	Dark Offset
Gain 1:	1.000	5
Gain 2:	9.620	6
Gain 3:	95.008	4
Gain 4:	866.86	16
Gain 5:	9991.7	151





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## Depth Calibration

Technician: 

<i>SM</i>
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Date: 

<b>8/20/11</b>
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Coefficient: 

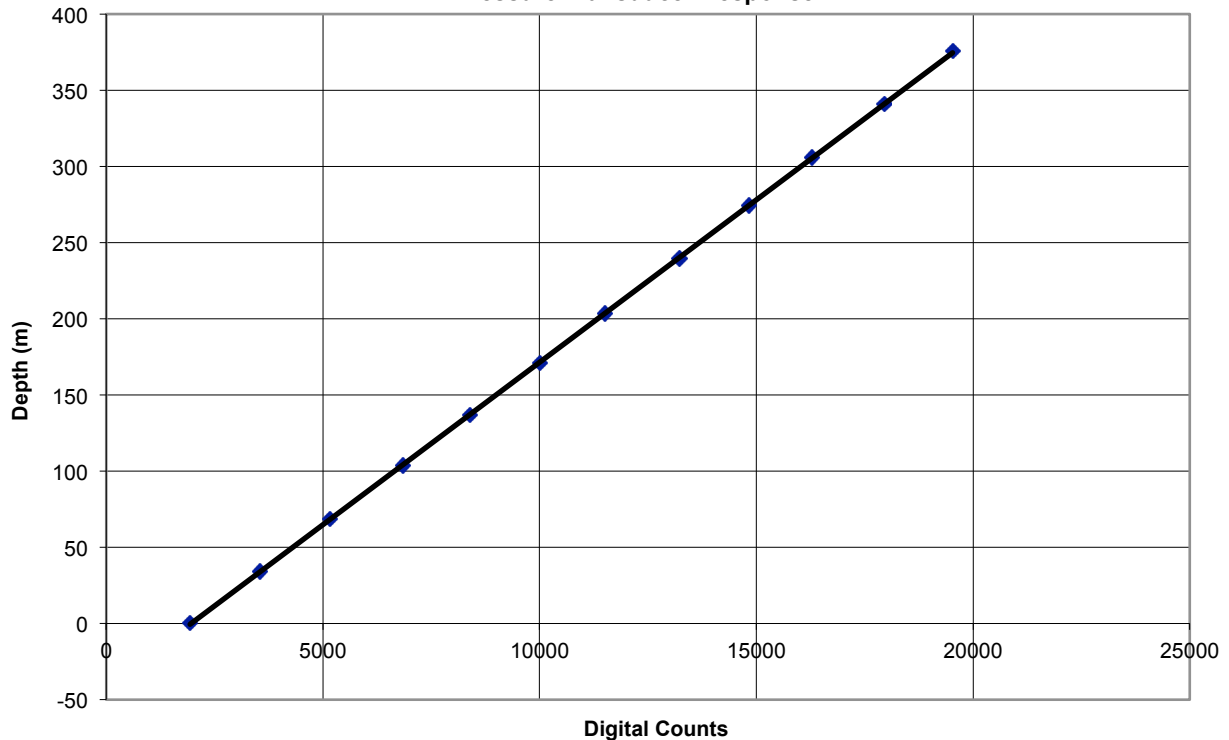
<b>0.0213</b>
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Offset: 

<b>41.4</b>
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meter / count

meters

 $R^2 = 1.000$ **Pressure Transducer Response**

HOBILabs, Inc. certifies that this instrument was carefully calibrated and thoroughly tested for scientific accuracy and proper operating condition at our facility. The backscattering calibration was performed according to the methodology detailed in "Instruments and methods for measuring the backward-scattering coefficient of ocean waters," *Appl. Opt.*, **36**, 6057-6067, using a NIST-traceable reflectance standard.