MetaData Information for RBAST
15-min Temperature Data

	Stream Temperature	Open Air Temperature	Forest Air Temperature	Relative Humidity	PAR
DATA COLLECTION					
Instruments Used	HOBO Pro v2 Water Temperature dataloggers, Onset Computer Corp., www.onsetcomp.com	Air Temperature Smart Sensor (12-bit) with HOBO microstation datalogger, inside solar radiation shield	Air Temperature-RH Datalogger inside solar radiation shield, Onset Computer Corp., www.onsetcomp.com	Air Temperature-RH Datalogger inside solar radiation shield, Onset Computer Corp., www.onsetcomp.com	PAR Light Smart Sensor with HOBO microstation datalogger, 400-700 nm
Data Collection Timing	00:00 1 June 2011 to 24:00 30 September 2012, every 15 min.	00:00 1 June 2011 to 24:00 30 September 2012, recorded every 1 min., averaged and logged every 15 min.	00:00 1 June 2011 to 24:00 30 September 2012, every 15 min.	00:00 1 June 2011 to 24:00 30 September 2012, every 15 min.	00:00 1 June 2011 to 24:00 30 September 2012, recorded every 1 min., averaged and logged every 15 min.
Calibration	Calibrated in ice bath before deployment, temperature correction (to nearest 0.1°C) made to raw values before any calculations				
Units	(°C)	(°C)	(°C)	(%)	microEinsteins per sec
Instrument Resolution	0.02°C at 25°C	0.02°C at 25°C	0.02°C at 25°C		
Site Information	Two stream segments of approximately 100 m length in 1-3rd order stream were marked. Dataloggers placed at upstream and downstream end. One segment has forested riparian zone, the other has non-forested riparian zone.				

Data Trimming	Raw data were visualized by graphing over time. Data points were removed if 1) the dataloggers appeared to be out of the water (tracked air temperatures closely), 2) unlikely spikes occurred (> 2C in 15 min), 3) dataloggers were being downloaded (and therefore out of the water)	Raw data were visualized by graphing over time. Data points were removed if 1) the dataloggers appeared to be out of the water (tracked air temperatures closely), 2) unlikely spikes occurred (> 2C in 15 min), 3) dataloggers were being downloaded (and therefore out of the water)	Raw data were visualized by graphing over time. Data points were removed if 1) the dataloggers appeared to be out of the water (tracked air temperatures closely), 2) unlikely spikes occurred (> 2C in 15 min), 3) dataloggers were being downloaded (and therefore out of the water)	Raw data were visualized by graphing over time. Data points were removed if 1) the dataloggers appeared to be out of the water (tracked air temperatures closely), 2) unlikely spikes occurred (> 2C in 15 min), 3) dataloggers were being downloaded (and therefore out of the water)	Raw data were visualized by graphing over time. Data points were removed if 1) the dataloggers appeared to be out of the water (tracked air temperatures closely), 2) unlikely spikes occurred (> 2C in 15 min), 3) dataloggers were being downloaded (and therefore out of the water)
Data Processing	Raw data files converted into Excel format and trimmed to 1 June to 30 September, temperature corrected based on calibration	Raw data files converted into Excel format and trimmed to 1 June to 30 September, temperature corrected based on calibration	Raw data files converted into Excel format and trimmed to 1 June to 30 September, temperature corrected based on calibration	Raw data files converted into Excel format and trimmed to 1 June to 30 September, temperature corrected based on calibration	Raw data files converted into Excel format and trimmed to 1 June to 30 September, temperature corrected based on calibration