Number of sites	50
Days per site	3
Bits of data per site	
Battery capacity (W-h) per sphere	10k

Instrument	Qnty.	Operating Conditions	Current (A)	Voltage (v)	Time of Operation per site (min)	Total Op. Time (hr)	Total Power (A-h)	Total Energy (W-h)	% of total energy	Comment
Benthic Chambers	2									
Stir motor	2	100% duty cycle	0.058	9	4320	3600.00	417.60	3758.40	20.85%	
Purge valve	2	1 op per site	0.5	12	1	0.83	0.83	10.00	0.06%	
Oxygen optode (Aanderaa 3830)	2	?	0.07	12	360	300.00	42.00	504.00	2.80%	
Rack motor	2	2 ops/site	7	12	10	8.33	116.67	1400.00	7.77%	
						0.00			0.00%	
Rover Instruments						0.00			0.00%	
Current Meter	1	during transit	0.012	12	60	50.00	0.60	7.20	0.04%	
Camera-Transit	1	12 op per site	0.2	24	40	33.33	6.67	160.00	0.89%	
Light	1	every 8 hours	4	12	15	12.50	50.00	600.00	3.33%	
Video Camera-BR	2	every 8 hours	0.2	12	25	20.83	8.33	100.00	0.55%	
Propulsion motor	2	1 op per site	7	12	5	4.17	58.33	700.00	3.88%	
Acoustic modem	2					0.00			0.00%	
						0.00			0.00%	
Controllers						0.00			0.00%	
MVC PC104 stack- On power	1	2.8%duty cycle	1.2	5	351	292.50	351.00	1755.00	9.74%	TS7200 (5v @450mA), Serial Exp. (5v@500mA), Ethernet Exp. (5v @274mA)
MVC- standby power	1		0.0068	12	12127	10105.83	68.72	824.64	4.57%	
Motor controller-scanner	6	scanner	0.064	24	240	200.00	76.80	1843.20	10.22%	
Motor controller- prop.	2	transit	0.075	24	5	4.17	0.63	15.00	0.08%	
Motor controller- clean, purge,rack	6	1-2 per BR cycle	0.064	24	5	4.17	1.60	38.40	0.21%	
Video Server	1	every 8 hours	0.67	12	25	20.83	13.96	167.50	0.93%	
Scanner						0.00			0.00%	
Ultrasound	2	1 scan per site	0.13	12	240	200.00	52.00	624.00	3.46%	Assumes a 2-channel EcoPuck type fluorometer
Fluorometer	4	1 scan per site	0.08	12	240	200.00	64.00	768.00	4.26%	
Motors	6	1 scan per site	0.33	12	240	200.00	396.00	4752.00	26.36%	
Total Power								18027.34		