From: Alana Sherman <alana@mbari.org>
Subject: **BEDS power numbers**
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After our discussion yesterday I came up with some numbers so you could get an idea of how much battery capacity is required for sensor operation and modem transmission:
These calcs are all for Li DD primary cells at 0degC:
1DD= 10.7 days of running the AD16405 inertial sensor in low power mode (no sleeping)
1DD= 4.5 hours of modem transmission

Bear in mind that power will still be required to run the controller and power the modem in sleep when not transmitting. But these ball park numbers should give you an idea how many batteries it would take to run the instrument for various tests such as:
6 months of sensor continuously running (17 DD)
collect 1 hr (540kB at 1200 baud) per week for 6 months (6 DD)

Alana