

**RESON SeaBat 8111**  
**Originated by Laura Stolp on August 30, 2013**

**On 8/30/13 4:07 PM, Laura Stolp wrote:**

Hi.

I am trying (rather unsuccessfully) to use a RESON SeaBat 8111 to map the sea floor. So far I have not been able to find it :). I think it will only see about 1400 meters.. and we are hitting occasional seamounts at 500 meters to 1000 meters. I have a very small window of time to 'dial in'. I was wondering if any one has a cheat sheet with settings that they have found work well at certain depths..

Thanks, laura

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**On Fri, 30 Aug 2013, Jonathan Beaudoin wrote:**

I think you might be at the deep end of its operating range. Here's what I would do:

- 1) set power to max
- 2) set gain to max
- 3) set pulse length to max
- 4) set range to max

If you can't see the seafloor in the wedge display then it's lost in the noise and there's nothing you can do, sorry...

If you do find the seafloor, reduce the range setting until you get the seafloor echogram in the wedge display near the bottom of the circular part of the wedge, be careful not to clip the seafloor at the outer edges by using too short of a range setting. Using too large of a range setting will result in a suboptimal ping rate (low data density in along-track direction).

If you're getting shallower, you can try scaling back also on the power and the pulse length.

Good luck,  
jb

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Dr. Jonathan Beaudoin  
Research Assistant Professor  
Center for Coastal and Ocean Mapping/NOAA-UNH Joint Hydrographic Center  
University of New Hampshire  
24 Colovos Road

Durham, NH 03824 USA

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**Reply from Laura Stolp (WHOI) on Aug 30, 2013**

Hi Jonathan,

That worked great.. I set everything up on max and when we got shallow enough, I was able find the seafloor.

Thank you everyone for your help!

cheers, laura