



# Updates to SBMAX64 - Seabed Data, Removing Duplicate POS Records

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A few new capabilities have been incorporated into SBMAX64 in the third quarter update of HYPACK 2022. One new feature was previously included in SBMAX64 and the other is a completely new filter. Here is an overview of the two updates: The ability to read seabed data into SBMAX64 provides users of devices like the RoxAnn the editing techniques of SBMAX64 for their surveys without losing parts of their data. Other users will find it helpful to cut down on unnecessary data in their single beam surveys by using our new filter to remove duplicate POS records.

## SEABED DATA

Seabed data in HYPACK consists of three values: Seabed E1, Seabed E2, and the corresponding Seabed ID. When you import survey files into SBMAX64 that contain a ROX record with these values, they are now viewable in the spreadsheet with a column header for each one. Simply choose which piece of data you would like to see by selecting the column title in the top left hand list of available Display Options and then clicking on the downward arrow button below it. Once all of the columns you want are included in the spreadsheet, the [Export] button will let you save the sheet including the seabed data.

Saving your survey will preserve the seabed data in it as well. When a user chooses the HS2X and EDT (Export) options as their file type to save as, they will not lose their seabed data, and reimporting any of these files back into SBMAX64 still shows the Seabed E1, E2, and, ID values.

Figure 1: Seabed E1, E2, and ID Columns in the Spreadsheet

	Time	X	Y	Seabed E1	Seabed E2	Seabed ID
1	10:43:01.114	407829.14	5226922.00	0.025	0.676	0
2	10:43:01.245	407829.08	5226921.66	0.028	0.825	0
3	10:43:01.336	407829.03	5226921.42	0.032	0.825	0
4	10:43:01.400	407829.00	5226921.26	0.042	0.718	0
5	10:43:01.504	407828.95	5226920.98	0.041	0.685	0
6	10:43:01.635	407828.88	5226920.65	0.045	0.839	0
7	10:43:01.726	407828.84	5226920.41	0.043	0.701	0
8	10:43:01.828	407828.78	5226920.14	0.043	0.663	0
9	10:43:01.921	407828.74	5226919.90	0.041	0.540	0
10	10:43:01.985	407828.71	5226919.74	0.039	0.393	0
11	10:43:02.088	407828.66	5226919.48	0.035	0.523	0
12	10:43:02.180	407828.62	5226919.27	0.023	0.524	0
13	10:43:02.283	407828.57	5226919.04	0.022	0.555	0
14	10:43:02.413	407828.52	5226918.75	0.022	0.535	0

## REMOVE DUPLICATE POS RECORDS

Another small addition to SBMAX64 comes in the form of a checkbox in the Device Offsets menu. In the process of opening your survey when the Read Parameters menu opens, navigate to the Device tab and then click the [Edit] button. This will bring up the Device Offsets menu. Under the Navigation grouping, the "Remove Duplicate POS Records" checkbox has been added. Select this option to skip reading in any consecutive position records that have the same X and Y values. Only the first record with that X and Y combination remains and it retains its depth value. Once you click [OK] in Device Offsets and finish any other modifications, clicking [OK] in Read Parameters will import your files and apply the filter to them.

Figure 2: Option to Remove Duplicate POS Records Selected in Device Offsets

The image shows a screenshot of the "Device Offsets" dialog box. The dialog is divided into several sections: Navigation, Tide, MRU, Sonar, and Heading. The "Remove Duplicate POS Records" checkbox is checked and highlighted with a red box. The "OK" button is also highlighted with a blue box.

Section	Device	Parameter	Value
Navigation	SPS-855	Starboard	0.00
		Vertical	-2.38
		Forward	0.00
		Latency	0.000
<input checked="" type="checkbox"/> Remove Duplicate POS Records			
MRU	Not Using MRU	Starboard	
		Pitch	
		Forward	
		Roll	
Vertical	Latency		
Special Cases...			
Heading	No Heading Device	Yaw	
		Latency	
Tide	SPS-855	<input checked="" type="checkbox"/> RTK Tides	
		Starboard	0.00
		Vertical	-2.38
		Forward	0.00
Latency		0.000	
Sonar	CV 100	Starboard	0.00
		Yaw	0.00
		Forward	0.00
		Pitch	0.00
		Vertical	0.00
		Roll	0.00
Latency		0.000	
Multiple Transducers...			