



Bucket Log Program

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The Bucket Log program is designed to generate a report for the mechanical dredge community.

FIGURE 1. *Bucket Log*

The program is written to read the standard HYPACK Bucket files and allow you to define multiple shifts per day.

There are three types of report: the Summary Report, the Detailed Report, and the Line and Detail report. There are examples of each report at the end of this document.

With the **Entries to Use** option, you can elect to use just a single bucket file or a group of files. It doesn't make sense to use a single file for the summary report but, when using a series of files, it can be very useful.

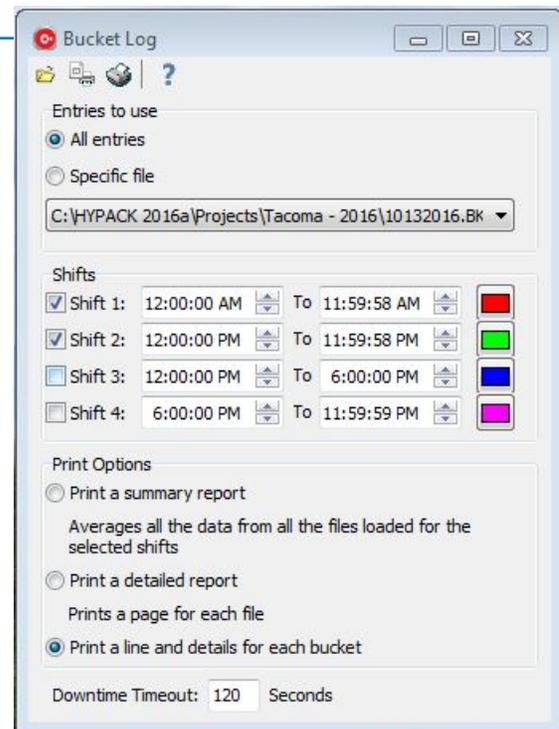
The program will break down the bucket files into shifts based on time. In the report, there is a map that will color the bucket files by shift.

The **Summary Report** shows the shifts overall of the files that are opened; therefore, you can see multiple shifts over multiple days.

The **Detailed Report** shows a single day on a single piece of paper.

The **Line and Detail Report** breaks all of the buckets out into text, assigning the bucket a count for the shift, as well as for the day.

Downtime Timeout is used to determine whether the dredge has taken too long between buckets, and to calculate cycle time. Downtime is registered in seconds.



PROCEDURE FOR CREATING REPORTS

1. **Open the Bucket Log program.** In the main HYPACK® shell, select UTILITIES > DREDGING UTILITIES.
2. **Load the BKT files** of interest.
3. **Set up the shift times.**

- Select the report you wish to generate. You can generate them one right after the other with the same files loaded.

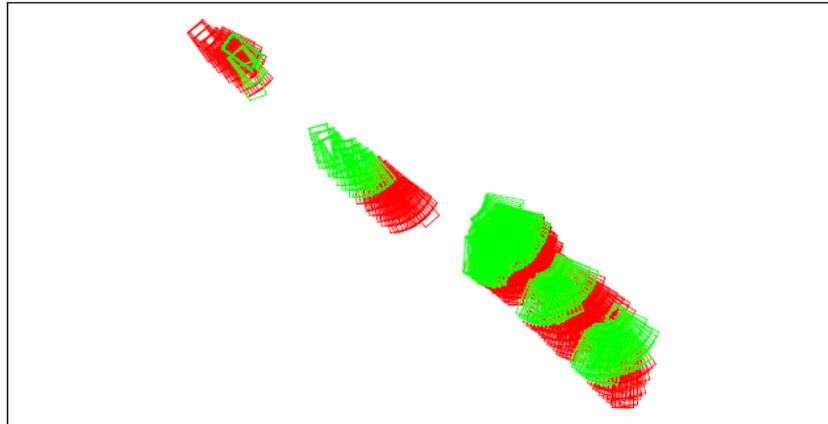
FIGURE 2. Line and Detail Report

DREDGEPACK MECHANICAL REPORT

Date	Time	Bkt # (day)	Bkt # (shift)	X	Y	Z
10/13/2016	12:07:46 AM	1	1	1167654.95	712619.93	-6.26
10/13/2016	12:10:22 AM	2	2	1167660.41	712624.23	-6.44
10/13/2016	12:13:10 AM	3	3	1167665.96	712627.75	-6.50
10/13/2016	12:15:07 AM	4	4	1167671.60	712632.67	-6.61
10/13/2016	12:18:19 AM	5	5	1167674.97	712637.48	-6.77
10/13/2016	12:22:24 AM	6	6	1167678.69	712642.42	-6.84
10/13/2016	12:26:05 AM	7	7	1167682.21	712648.08	-6.93
10/13/2016	12:30:38 AM	8	8	1167685.58	712653.29	-7.01
10/13/2016	12:34:25 AM	9	9	1167687.63	712658.61	-7.20
10/13/2016	12:42:54 AM	10	10	1167581.19	712591.66	-7.59
10/13/2016	12:47:16 AM	11	11	1167600.70	712584.75	-7.69
10/13/2016	12:50:24 AM	12	12	1167597.96	712579.22	-7.90
10/13/2016	12:53:49 AM	13	13	1167607.83	712582.97	-7.96

FIGURE 3. Summary Report

DREDGEPACK MECHANICAL REPORT



Date	Start Time	End Time	First Bucket	Last Bucket	Total Time	Down Time	Active Time	Bucket Count	Bkt Per Hour	Avg Cycle (s)
10/11/2016	12:00:00 AM	11:59:58 AM	12:16:46 AM	2:50:57 AM	02:34:11	02:30:58	00:03:04	35	35	5.26
10/12/2016	12:00:00 AM	11:59:58 AM	12:11:22 AM	2:15:59 AM	02:04:37	02:03:57	00:00:37	21	21	1.76
10/12/2016	12:00:00 PM	11:59:58 PM	4:11:43 PM	11:21:47 PM	07:10:04	07:08:41	00:00:56	41	41	1.37
10/13/2016	12:00:00 AM	11:59:58 AM	12:07:46 AM	11:43:26 AM	11:35:40	11:32:45	00:02:18	116	116	1.19
10/13/2016	12:00:00 PM	11:59:58 PM	5:42:49 PM	10:40:47 PM	04:57:58	04:55:14	00:02:40	46	46	3.48
10/14/2016	12:00:00 AM	11:59:58 AM	12:11:25 AM	3:31:19 AM	03:19:54	03:18:16	00:01:21	36	36	2.25
10/14/2016	12:00:00 PM	11:59:58 PM	12:43:56 PM	11:10:52 PM	10:26:56	10:15:12	00:11:34	86	86	8.07
10/15/2016	12:00:00 AM	11:59:58 AM	12:06:36 AM	7:55:26 AM	07:48:51	06:58:59	00:49:44	69	69	43.25
10/15/2016	12:00:00 PM	11:59:58 PM	8:06:28 PM	10:44:50 PM	02:38:22	02:20:54	00:17:24	16	16	65.25
10/16/2016	12:00:00 AM	11:59:58 AM	8:12:30 AM	11:48:49 AM	03:36:19	02:59:24	00:36:55	48	48	46.15
10/16/2016	12:00:00 PM	11:59:58 PM	12:22:59 PM	1:25:22 PM	01:02:23	00:58:09	00:03:54	5	5	45.80
10/17/2016	12:00:00 PM	11:59:58 PM	4:27:11 PM	10:12:38 PM	05:45:27	05:14:14	00:31:13	35	35	53.51
10/18/2016	12:00:00 AM	11:59:58 AM	12:02:52 AM	9:51:49 AM	09:48:57	07:00:27	02:48:04	157	57	64.23
10/18/2016	12:00:00 PM	11:59:58 PM	6:21:04 PM	9:26:31 PM	03:05:27	02:12:24	00:52:49	52	52	50.94

FIGURE 4. DETAILED REPORT

