

High Density XBT (HDX) Program 2007 – 2009

Line	2007	2008	2009	HDX Began and Sections Completed	Additional Designation*
AX3	1/71	1/83	1/86	1988/83	
7	4/724	4/708	4/675	1995/58	
8	4/960	4/945	4/923**	2000/34	FRX/FHD
10	4/368	4/417	4/302	1997/51	FHD
18	3/508	1/159	4/585	2002/24	LDX
22	5/320	4/264	5/325**	1996/89	
25	2/322	2/333	2/340**	2004/13	LDX
97	3/141	4/172	6/252	2004/22	HDX
IX6	2/216	4/305	2/253	2007/8	FRX
12	-	-	2/440		
15/31	3/725	4/835	2/402	1994/26	LDX
21	4/348	4/367	4/300	1994/26	LDX
28	7/533	6/477	6/456	1993/97	
PX5	-	-	2/527	2009/2	
6	3/174	3/154	3/169	1986/91	
6 Loop	-	-	2/335	2009/2	
8	4/976	3/688	2/462	2004/20	
9	-	-	1/219	1987/36	FHD
10	4/467	5/585	5/606	1991/72	
13	1/263	1/241	1/273	2007/3	
14S	1/90	1/80	-	1994/24	FRX
30	4/442	4/435	4/408**	1991/70	
31	3/593	3/643	3/650	1997/36	FHD
34	4/241	4/243	4/218	1991/73	
37	4/303	5/380	5/392	1991/72	
37S	-	1/102	5/493	2008/6	
38	2/190	3/275	2/196	1993/48	
39	-	-	-	1993/12	
40	3/312	3/344	3/390	1998/34	
44	4/459	5/517	5/496	1991/71	
50	1/233	1/261	-	1993/41	
81/25	-	-	-	1997/28	

Totals:

Lines	25	26	28
Transects	80	84	93
Drops	9980	10015	11173

* Line designations http://www.jcommops.org/soopip/lines_list.html

** Implies final QC'd data not available for latest transect

LDX Low density Monthly at 150k spacing
HDX High density Quarterly at 50k spacing
FHD Frequent high density
FRX Rossby Radius detecting 18 transects at 75-90k spacing
Thermal Review http://www.jcommops.org/soopip/uo_review.html

Participants: USA, Germany, Australia, Japan, Italy, France, Brazil and South Africa. Assisting: Chile and Argentina. For Atlantic lines
See: http://www.aoml.noaa.gov/phod/hdenxbt/high_density_home.html
Pacific/Indian Ocean lines see: <http://www-hrx.ucsd.edu/index.html>
and <http://www.pol.geophys.tohoku.ac.jp/~kizu/jahmp/jahmp-e.htm>

See also

http://www.meds-sdmm.dfo-mpo.gc.ca/meds/Databases/OCEAN/Realtime_e.htm

The figure below shows the HDX program growth from early WOCE through 2009. A fully operational HDX program requires roughly 13,000 good drops per year.

