

## High Density XBT (HDX) Program 2008 – 2010

Line	2008	2009	2010	HDX Began and Sections Completed	Additional Designation*
AX3	1/83	1/86		1988/83	
7	4/708	4/675	1/175**	1995/59	
8	4/945	4/923**	1/230**	2000/35	FRX/FHD
10	4/417	4/302	1/78	1997/52	FHD
18	1/159	4/585	1/145**	2002/25	LDX
22	4/264	6/398	2/130**	1996/92	
25	2/333	2/340**	2/170**	2004/13	LDX
97	4/172	6/252		2004/22	HDX
IX6	4/305	2/253		2007/8	FRX
12	-	2/440			
15/31	4/835	2/402		1994/27	LDX
21/15			1/237		
21	4/367	4/300		1994/26	LDX
28	6/477	6/456		1993/97	
PX5	-	2/527	1/256	2009/3	
6	3/154	3/169		1986/91	
6 Loop	-	2/335	1/166	2009/3	
8	3/688	2/462		2004/20	
9	-	1/219	1/208	1987/36	FHD
10	5/585	5/606		1991/72	
13	1/241	1/273		2007/3	
14S	1/90	1/80		1994/24	FRX
30	4/435	4/408**		1991/70	
31	3/643	3/650		1997/36	FHD
34	4/243	4/218		1991/73	
37	5/380	5/392		1991/72	
37S	1/102	5/493	1/97	2008/7	
38	3/275	2/196		1993/48	
39	-	-		1993/12	
40	3/344	3/390		1998/34	
44	5/517	5/496		1991/71	
50	1/261	-		1993/41	
81/25	-	-		1997/28	
<b>Totals:</b>					
Lines	26	30	11		
Transects	84	95	13		
Drops	9980	11326	1892		

\* Line designations [http://www.jcommops.org/soopip/lines\\_list.html](http://www.jcommops.org/soopip/lines_list.html)  
\*\* Implies final QC'd data not available for latest transect (ie estimated)

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](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](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](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.

