

## High Density XBT (HDX) Program 1986-2011

Lines	<u>Most Recent Sections/Good Observations</u>			HDX Began and Sections Completed	Additional Designation*
	2009	2010	2011		
AX1	5/140	6/148	2/107	2000/66	
2	4/80	3/101	2/120	2008/10	
3	-	3/125	3/125	1988/181	
7	4/675	4/727	3/643	1995/65	
8	3/722	4/1012	3/825	2000/40	FRX/FHD
10	4/302	4/360	2/177	1997/58	FHD
18	4/585	3/507	1/153	2002/27	LDX
20	-	-	1/140	2011/1	
22	6/398	6/389	6/400**	1996/101	
25	2/333	2/307	1/187	2004/16	LDX
97	6/252	3/102	5/190	2004/30	
IX12	2/440	-		2009/2	
6/21	2/413	-		2007/9	FRX
21/15	2/522	4/1017	3/744	1994/32	
15/31	-	-		1994/26	LDX
28	6/456	6/537	2/152	1993/105	
PX5	2/527	4/992	4/1029	2009/10	
6/31	3/816	3/855	4/1177	1986/103	FHD
6 Loop	2/335	4/725		2009/6	
8	2/462	-		2004/20	
9	1/219	1/208		1987/36	FHD
13(NZ-USA)	1/273	-		2007/3	
14S	1/80	1/91	-	1994/25	FRX
30	4/408	4/422	2/200	1991/78	
34	4/218	3/167	4/217	1991/80	
37S	5/493	5/481	5/515	2008/16	
38	2/196	1/102	1/87	1993/50	
40	3/390	3/343	3/275	1998/40	
44/10/37	5/1494	4/1195	5/1450	1991/81	
50	-	-		1993/41	
81/25	-	-		1997/28	
Total XBTs	11229	10913	8913		

\* 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

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  
[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)

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.gp.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 2010. A fully operational HDX program requires roughly 13,000 good drops per year.

