

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	2/360	1995/60	
8	4/945	3/722	2/489	2000/35	FRX/FHD
10	4/417	4/302	3/250**	1997/54	FHD
18	1/159	4/585	2/356	2002/26	LDX
22	4/264	6/398	4/290**	1996/94	
25	2/334	2/333	1/146	2004/144	LDX
97	4/172	6/252	2/60	2004/23	
IX12		2/440			
6/21	4/831	2/413		2007/9	FRX
21/15		2/522	3/718		
15/31	4/862			1994/27	LDX
28	6/477	6/456	2/181	1993/99	
PX5***	-	2/527	3/736	2009/5	
6/31	3/797	3/816	2/572	1986/93	FHD
6 Loop	-	2/335	2/330	2009/4	
8	3/688	2/462		2004/20	
9	-	1/219	1/208	1987/36	FHD
13(NZ-USA)	1/241	1/273		2007/3	
14S	1/90	1/80	1/91	1994/25	FRX
30	4/435	4/408	2/217	1991/72	
34	4/243	4/218	2/113	1991/75	
37S	1/102	5/493	3/289	2008/9	
38	3/275	2/196	1/102	1993/49	
39	-	-		1993/12	
40	3/344	3/390	2/230	1998/36	
44-10-37	5/1482	5/1494	2/599	1991/72	
50	1/261	-		1993/41	
81/25	-	-		1997/28	
Totals:					
Lines	25	28	24		
Transects	79	88	42		
Drops	10210	11098	6337		

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

** Implies final QC'd data not available for latest transect (ie estimated)

*** Brisbane/Yokohama

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.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

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.

