

Vortex Induced Vibration Data Repository

[HOME](#)
[DATASETS](#)
[PUBLICATIONS](#)
[CONTRIBUTORS](#)
[SITE POLICIES](#)
[ABOUT US](#)

Datasets:

Datasets from MIT:

Dataset 1: Smogeli's dataset			
Created on:	2002	Posted on:	31 October 2007
Notes:	One degree-of-freedom free vibration of a rigid cylinder using a force-feedback apparatus. Donor contact: Michael Triantafyllou (mistetri@mit.edu).		
Data description document, Matlab 1 (freevib_zeta0_05mod.mat), Matlab 2 (freevib_zeta0_02mod.mat), Matlab 3 (freevib_zeta0_01mod.mat)			

Datasets from DeepStar Consortium:

Dataset 2: DeepStar-MIT Gulf Stream 2006 experiment dataset			
Created on:	2006	Posted on:	30 November 2007
Notes:	VIV experiment data from the Deepstar-MIT Gulf Stream 2006 tests. The experiments were done on a 500-foot long and 1.43 inches diameter pipe. Two bare pipe test cases and a 40% strake coverage test case are available. Donor contact: Kim Vandiver (kimv@mit.edu).		
Data description document, Matlab 1 (20061020174124.mat), Matlab 2 (20061021213742.mat), Matlab 3 (20061023205557.mat)			

Dataset 3: DeepStar High Reynold's Number Experiment Dataset

Created on:	July 2006	Posted on:	13 March 2008
Notes:	The set of data is donated by BP, prepared by 2H Offshore Inc, measured on a hung-off drilling riser (4,029ft long) with Fins attached. The experiment was conducted in the Gulf of Mexico. Donor contact: Michael Tognarelli (Michael.Tognarelli@bp.com).		
Data description document, Measured data (Measured_Data.zip) [filesize: 27MB], Current data (Current_Data.zip)			

Dataset 5: Full scale data several instances of a drilling riser (Bare)			
Created on:	April-July 2007	Posted on:	20 March 2008
Notes:	The dataset is donated by BP with data preparation by 2H Offshore Inc. The data is measured during drilling activities, a hung-off rig move and a second connected non-drilling period. Experiments were conducted in the Gulf of Mexico and data corresponding to two separate cases of water depths (5,669ft or 5,662ft long) are available. Donor contact: Michael Tognarelli (Michael.Tognarelli@bp.com).		
Data description document, Measured data (Measured_Data.zip) [filesize: 655MB], Current data (Current_Data.zip), Soil data (Soil_Data.zip), Tension and mud weight data (Tension_and_Mud_Weight_Data.zip)			

Dataset 6: Full scale data from 4,595ft hang-off drilling riser (with Fairings)			
Created on:	November 2006 to February 2007	Posted on:	20 March 2008
Notes:	The set of data is donated by BP, prepared by 2H Offshore Inc, measured on a drilling riser (4,595ft long) with fairings attached to it. Experiment was conducted in the Gulf of Mexico. Donor contact: Michael Tognarelli (Michael.Tognarelli@bp.com).		
Data description document, Measured data (Measured_Data.zip) [filesize: 449MB], Current data (Current_Data.zip)			

Datasets from ExxonMobil:

Dataset 7: Data from a 10m riser model (bare):			
Created on:	July 2003	Posted on:	16 April 2008
Notes:	This set of data is donated by ExxonMobil measured on a bare riser model (10m long) for various linearly sheared and uniform flow velocity cases. Donor contact: Guangqiang Yang (guangqiang.yang@exxonmobil.com).		
Data description document, Sensor locations, Multimedia, Uniform flow-profile datasets (uniform_(bare).zip) [filesize: 880MB], Sheared flow-profile datasets (sheared_(bare).zip) [filesize: 815MB]			

Uniform flow-profile 75% straked riser datasets (uniform_(75pc_straked).zip) [filesize: 602MB],
 Uniform flow-profile 100% straked riser datasets (uniform_(100pc_straked).zip) [filesize: 609MB]

Sheared flow-profile 25% straked riser datasets (sheared_(25pc_straked).zip) [filesize: 631MB],
 Sheared flow-profile 50% straked riser datasets (sheared_(50pc_straked).zip) [filesize: 634MB],
 Sheared flow-profile 75% straked riser datasets (sheared_(75pc_straked).zip) [filesize: 636MB],
 Sheared flow-profile 100% straked riser datasets (sheared_(100pc_straked).zip) [filesize: 517MB]

Datasets from Norwegian Deepwater Programme (NDP):

Dataset 9: Data from a 38m riser model (bare and straked):			
Created on:	March 2004	Posted on:	25 April 2008
Notes:	This set of data is donated by Norwegian Deepwater Programme measured on a 38m long riser model for various linearly sheared and uniform flow velocity cases corresponding to bare and straked riser configurations. Donor contact: Kjetil Skaugset (kjetil.skaugset@statoilhydro.com).		
Data description document, Uniform flow-profile bare riser dataset 1 (uniform2050.zip) [filesize: 33MB], Uniform flow-profile bare riser dataset 2 (uniform2120.zip) [filesize: 51MB], Uniform flow-profile 91% straked riser dataset (uniform_straked3050.zip) [filesize: 44MB]			
Sheared flow-profile bare riser dataset 1 (sheared2350.zip) [filesize: 45MB], Sheared flow-profile bare riser dataset 2 (sheared2420.zip) [filesize: 33MB], Sheared flow-profile 91% straked riser dataset (sheared_straked3120.zip) [filesize: 28MB]			

Datasets from Shell:

Dataset 10: Data from tests on VIV of long slender tubulars in sheared flows:			
Created on:	December 1992	Posted on:	1 August 2009
Notes:	Data is measured on ABS, aluminum and steel tubes exposed to a variety of current profiles, end tensions and and response measured using biaxial accelerometers. Donor contact: Don W. Allen (Don.Allen@shell.com).		
Dataset 11: Data from tests on VIV of a long steel wire:			
Created on:	December 1992	Posted on:	1 August 2009
Notes:	Tests were performed on a long steel wire in both uniform and sheared flows. These tests were conducted with the objective of understanding VIV in high mode numbers. Donor contact: Don W. Allen (Don.Allen@shell.com).		
Data description documents [filesize: 14MB], Datasets (Data.zip) [filesize: 1MB]			

© Copyright 2007 VIV Data Repository Contributors; Site hosted by Center for Ocean Engineering, MIT, Cambridge, MA, USA-02139.
