Publicly Available Practice Data

These are data files that are publicly available using DataSource('exp=EXPNAME:run=NNN'), where NNN can be found in the first column below, and EXPNAME is xpptut15 for the first table below, and cxitut13 for the second table below.

xpptut15 starting run number	Data origin (expt, run (s))	Comments
AMO		
290	amoc0113 2 17,219	see run 280 notes
280	amoi0216 32 ,34,	(from Timur Osipov) if I remember it correctly there were two acqires boards (1 and 2?) one broken into 4 channels and the second one just one (or two) channel. The one with 4 channels would be the coordinates for the square delay-line (0 - x1, 1 - x2, 2 - y1, 3 - y2), the other one, with the fewer channels, should be the MCP - TOF channel for the delay line. As for the phosphor screen detector the files from the commissioning of the LAMP (amoc0113) should work - runs 217, 219, 220 each is a couple minutes long with opal images of the phosphor detector.
390	amod3814, 85	(from Timur Osipov) HEX anode data: amod3814, runs 85, 88, 90, etc. any decently sized files. Channel assignments including ACQIRIS: PINOUT
340	amo06516 10,15,19	pnccd flat-field data (1.74 keV photons from Si k-alpha)
350	amo01616 125	(From Alex Reid) Andor camera: Portable X-ray Spectrometer RIXS measurement on CoO, grating in 2nd order, beam energy 780 eV. Andor only read out every 7000 events or so.
360	amo01616 20	(From Alex Reid) Emission spectra on Cu measured using the SXR portable spectrometer with Andor detector in full vertical binning mode (120 Hz readout rate)
310	amol9416 272	long gain 6 dark for front pnCCD
620	amox23616 104,131,137	xtcav dark (104), lasing-off (131), lasing-on runs (137)
CXI		
101,102,124	cxii0314	xtcav: 101: lasing off, 102: dark, 124: lasing on
270	cxi06216 22	crystallography run
380	cxilp9915 162	(From TJ Lane) dark run contains two CSPAD cameras (front/back aka DS1/DSD) in a single datastream at CXI
370	cxilp7315 21	(From Sebatien Boutet) Two laser flash data for jet speed measurement using Opal1K camera at 120Hz. Also contains 120Hz cspad.
580	cxilw5019 248 thru 250	(Requested by Mark Hunter) Lysozyme data on jungfrau4M detector
610	cxilu9218 12	SF6 geometry calibration data on jungfrau4M detector
MEC		
460	mec70013 454	two princetons PI-MTE with weak XRTS signal. Also has Opals and cspads.
470	meco1416 250, 256	PCI experiment, images here from the PI-PIXIS camera. run 470: 10 dark images, run 471: images with X-ray beam and fringes
480	mecls3115 157 thru 168	data of optical beam (long pulse) on OPAL camera. run 489 is good: it has some images with different camera positions and ~20 events.

500	mecdaq115 71, 72	data of standard configuration, with 3 quads and 2 140k. run 500: calibration data on LaB6, at 7.2keV. run 501: calibration data on CeO2 at 7.2keV
510	mecx24215 72, 121	run 510: images on our Peter Optique with the Neo. run 511: data on both the IPM3, GMD and PIP diode (MEC-TCTR-DI-01:FEX) behind the chamber
650	mecx45520 14	run 14: XRTS spectrometer data on an epix100
680	meclw5919 runs 160, 161, 177	161 is XRD calib, 160 is XRTS and 177 is XPCS
690	mecl1007521 runs 509, 519, 520, 638, 639	Photon energy: 10 keV. Calibration data with CeO2
MFX		
430	mfx11116 664, 677	High and lower-flux Jungfrau 1Megapixel attenuation scans
410	mfx11116 691,694	Jungfrau 0.5M data
550	mfxx45919 9-18	Scattering from water droplets on ePix10k
570	mfxx45919 80-85	Protein crystal scattering from droplets on ePix10k
590	meclx9920 634	MecTargetChamber.0:Epix10kaQuad.0/1/2/3
660	mfxc00118 239	Rayonix powder diffraction pattern: azimuthal integration training set
670	mfxx49820 15-19	Crystallography practice data for 2023 Users Workshop run by Fred Poitevin and Valerio Mariani
SXR		
520	sxrx21715 191	Saturated digitizer data
450	sxrx20915 40,64	"front" pnCCD runs in gain 5 from Phil Hart. run 40: dark. run 64: Fe55 flat-field data
440	sxrx21715, 193	both acqiris and new high speed digitizer waveforms excited by x-rays
420	sxrx24615	Timetool data (spatial)
400	sxri0215, 155	SXR time resolved XAS scan using FCCD detector in full vertical binning mode with MCP I0.
330	sxr82112 197	Practice encoder data for determining pump-probe time (but no extra time-tool information)
XCS		
260	xcs01116 81, 82,83,120	epix100: 81(dark), 82,83(vonHamos), 120(speckle)
XPP		
54,59	XPP test DAQ Runs	59 contains slow epics data

140	xppi0813 75-85,87	87 is dark, also has timetool epics values
160	xppc0114 287	
170	xppc0115 270	
180	xppf2115	189,190,192, detector is cspad 140k, data are "samr" scans.
190	xpp72213 32 4,300	detector is cspad 140k, data are most likely delay scans.
200	xppd0115 37 5,366	366 is dark, 375 is delay scan, detector is a cspad 140k.
210	xppi3815 224 ,225	ccmE_vernier scan, detector is a diode on the end station IPM (diodeU), channel3. A 140k is used for the spectrometer.
220	xppi3815 100 -104	delay scans.
230	xpph4915 17	
240	xppc0115 32 8,335	328 is rayonix with 2x2 binning, 335 has 10x10
250	xpp02016 225,272,300	New delay scan implementation
320	xppl4416 283,284	XPP cspad data and shows powder rings. LaB6 is the sample.
600	xppx53620 74	
630	xppx49520 267,602	Split-pulse XPCS data. (Sparse) photons on jungfrau1M & epix100 detectors.
650	xpplv9818 127	Jungfrau time-resolved diffraction training set
MISC		
300	diamcc14 92 0,921,922	xtcav: dark,lasing-off,lasing-on xtcav. s00 renamed to s80
530	detdaq17 256 (modified! to fix incorrect detid's)	Jungfrau 4M. **NOTE**: actual data was copied from files with "fixed up" detid's in /reg/d/psdm/det/detdaq17/scratch/philiph /jungfrau/ASC/e968-r1256-s00-c00.xtc /reg/d/psdm/det/detdaq17/scratch/philiph/jungfrau/ASC/e968-r1256-s01-c00.xtc
540	xcsx35617 421	Epix10ka2M dark run
700	detdaq20 227,228	A dark epix100 run (227) and Fe55 data (228) courtesy of Phil Hart.

See https://github.com/chrisvam/psana_cpo/blob/master/xpptut15_copy.py for a script to copy runs into xpptut15, which automatically updates the run number in the filename and for the xtc begin-run transition. It also attempts to copy over relevant calibration constants and assign appropriate run ranges. This method of making data public is messy for psana1, but much cleaner for psana2 (where we just need to copy xtc files to a publicly readable location, since all calibration is fetched via http).

cxitut13 run number	Data origin	Comments
10	cxi06216 22	lysozyme crystallography tutorial data
11	cxi06216 17	dark data for the above
20	cxi00516 6	8keV flat-field data on DsaCsPad
30	cxi12016 24	Diode wire scan with Imp detector