

LASER INTERFEROMETER GRAVITATIONAL WAVE OBSERVATORY  
- LIGO -  
CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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## LIGO Channel Count

Daniel Sigg and Peter Fritschel

*Distribution of this draft:*

detector group

This is an internal working note  
of the LIGO Project.

California Institute of Technology  
LIGO Project - MS 51-33  
Pasadena CA 91125  
Phone (818) 395-2129  
Fax (818) 304-9834  
E-mail: [info@ligo.caltech.edu](mailto:info@ligo.caltech.edu)

Massachusetts Institute of Technology  
LIGO Project - MS 20B-145  
Cambridge, MA 01239  
Phone (617) 253-4824  
Fax (617) 253-7014  
E-mail: [info@ligo.mit.edu](mailto:info@ligo.mit.edu)

WWW: <http://www.ligo.caltech.edu/>

Channel Summary

LHO		4K															
	Rates (kB/s)	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16	
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	
LSC	957	45	39	6	15	6	23	0	0	0	1	0	0	0	0	0	
ASC	371	116	102	14	0	0	62	14	0	0	20	0	0	0	20	0	
SUS	684	138	138	0	13	0	65	0	0	0	0	0	60	0	0	0	
IOO	379	69	65	4	8	0	20	4	0	0	21	0	0	0	16	0	
PSL	289	14	14	0	9	0	0	0	0	0	1	0	0	0	4	0	
SEI	2	48	48	0	0	0	0	0	0	0	0	0	0	0	48	0	
GDS	1536	80	0	80	0	16	0	64	0	0	0	0	0	0	0	0	
Total	4216	510	406	104	45	22	170	82	0	0	43	0	60	0	88	0	
Rates (kB/s)		4216	2152	2064	1440	1408	680	656	0	0	22	0	8	0	3	0	

LHO		2K															
	Rates (kB/s)	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16	
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	
LSC	957	45	39	6	15	6	23	0	0	0	1	0	0	0	0	0	
ASC	371	116	102	14	0	0	62	14	0	0	20	0	0	0	20	0	
SUS	842	176	176	0	16	0	80	0	0	0	0	0	80	0	0	0	
IOO	379	69	65	4	8	0	20	4	0	0	21	0	0	0	16	0	
PSL	289	14	14	0	9	0	0	0	0	0	1	0	0	0	4	0	
SEI	2	48	48	0	0	0	0	0	0	0	0	0	0	0	48	0	
GDS	1536	80	0	80	0	16	0	64	0	0	0	0	0	0	0	0	
Total	4374	548	444	104	48	22	185	82	0	0	43	0	80	0	88	0	
Rates (kB/s)		4374	2310	2064	1536	1408	740	656	0	0	22	0	10	0	3	0	

LHO		PEM															
	Rates (kB/s)	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16	
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	
PEM	889	204	204	0	7	0	160	0	12	0	25	0	0	0	0	0	
Rates (kB/s)		889	889	0	224	0	640	0	12	0	13	0	0	0	0	0	

LHO		Total															
	Rates (kB/s)	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16	
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	
Total	9479	1,262	1,054	208	100	44	515	164	12	0	111	0	140	0	176	0	
Rates (kB/s)		9479	5351	4128	3200	2816	2060	1312	12	0	56	0	18	0	6	0	

**Channel Summary**

<b>LLO</b>		<b>4K</b>														
	<b>Rates (kB/s)</b>	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
LSC	<b>957</b>	45	39	6	15	6	23	0	0	0	1	0	0	0	0	0
ASC	<b>371</b>	116	102	14	0	0	62	14	0	0	20	0	0	0	20	0
SUS	<b>684</b>	143	143	0	13	0	65	0	0	0	0	0	65	0	0	0
IOO	<b>379</b>	69	65	4	8	0	20	4	0	0	21	0	0	0	16	0
PSL	<b>289</b>	14	14	0	9	0	0	0	0	0	1	0	0	0	4	0
SEI	<b>2</b>	48	48	0	0	0	0	0	0	0	0	0	0	0	48	0
GDS	<b>1536</b>	80	0	80	0	16	0	64	0	0	0	0	0	0	0	0
<b>Total</b>	<b>4216</b>	515	411	104	45	22	170	82	0	0	43	0	65	0	88	0
<b>Rates (kB/s)</b>		<b>4216</b>	2152	2064	1440	1408	680	656	0	0	22	0	8	0	3	0

<b>LLO</b>		<b>PEM</b>														
	<b>Rates (kB/s)</b>	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
PEM	<b>460</b>	95	95	0	6	0	62	0	12	0	15	0	0	0	0	0
<b>Rates (kB/s)</b>		<b>460</b>	460	0	192	0	248	0	12	0	8	0	0	0	0	0

<b>LLO</b>		<b>Total</b>														
	<b>Rates (kB/s)</b>	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
<b>Total</b>	<b>4676</b>	610	506	104	51	22	232	82	12	0	58	0	65	0	88	0
<b>Rates (kB/s)</b>		<b>4676</b>	2612	2064	1632	1408	928	656	12	0	29	0	8	0	3	0

<b>LHO &amp; LLO</b>		<b>Total</b>														
	<b>Rates (kB/s)</b>	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
<b>Total</b>	<b>14154</b>	1,872	1,560	312	151	66	747	246	24	0	169	0	205	0	264	0
<b>Rates (kB/s)</b>		<b>14154</b>	7962	6192	4832	4224	2988	1968	24	0	85	0	26	0	8	0

## Channel Summary

Stimulus Channels				16384	16384	2048	2048	512	512	256	256	64	64	16	16	
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
LHO 4K	<b>827</b>	57	14	43	10	3	0	39	0	0	4	1	0	0	0	0
LHO 2K	<b>827</b>	57	14	43	10	3	0	39	0	0	4	1	0	0	0	0
LLO 4K	<b>827</b>	57	14	43	10	3	0	39	0	0	4	1	0	0	0	0
LHO PEM	<b>68</b>	19	19	0	1	0	6	0	12	0	0	0	0	0	0	0
LLO PEM	<b>68</b>	19	19	0	1	0	6	0	12	0	0	0	0	0	0	0
Total	<b>2617</b>	209	80	129	32	9	12	117	24	0	12	3	0	0	0	0
Rates (kB/s)		<b>2617</b>	1102	1515	1024	576	48	936	24	0	6	3	0	0	0	0

## Channel Summary Full Frame

LHO		4K														
	Rates (kB/s)	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
LSC	797	40	34	6	10	6	23	0	0	0	1	0	0	0	0	0
ASC	179	68	54	14	0	0	14	14	0	0	20	0	0	0	20	0
SUS	476	114	114	0	9	0	45	0	0	0	0	0	60	0	0	0
IOO	209	22	18	4	5	0	4	4	0	0	1	0	0	0	8	0
PSL	225	12	12	0	7	0	0	0	0	0	1	0	0	0	4	0
SEI	1	44	44	0	0	0	0	0	0	0	0	0	0	0	44	0
Total	1885	300	276	24	31	6	86	18	0	0	23	0	60	0	76	0
Rates (kB/s)		1885	1357	528	992	384	344	144	0	0	12	0	8	0	2	0

LHO		2K														
	Rates (kB/s)	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
LSC	797	40	34	6	10	6	23	0	0	0	1	0	0	0	0	0
ASC	179	68	54	14	0	0	14	14	0	0	20	0	0	0	20	0
SUS	582	146	146	0	11	0	55	0	0	0	0	0	80	0	0	0
IOO	209	22	18	4	5	0	4	4	0	0	1	0	0	0	8	0
PSL	225	12	12	0	7	0	0	0	0	0	1	0	0	0	4	0
SEI	1	44	44	0	0	0	0	0	0	0	0	0	0	0	44	0
Total	1992	332	308	24	33	6	96	18	0	0	23	0	80	0	76	0
Rates (kB/s)		1992	1464	528	1056	384	384	144	0	0	12	0	10	0	2	0

LHO		PEM														
	Rates (kB/s)	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
PEM	821	185	185	0	6	0	154	0	0	0	25	0	0	0	0	0
Rates (kB/s)		821	821	0	192	0	616	0	0	0	13	0	0	0	0	0

LHO		Total														
	Rates (kB/s)	all			16384	16384	2048	2048	512	512	256	256	64	64	16	16
		both	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
Total	4698	817	769	48	70	12	336	36	0	0	71	0	140	0	152	0
Rates (kB/s)		4698	3642	1056	2240	768	1344	288	0	0	36	0	18	0	5	0

**Channel Summary Full Frame**

<b>LLO 4K</b>		all		real	16384	16384	2048	2048	512	512	256	256	64	64	16	16
	<b>Rates (kB/s)</b>	both	int16		int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
LSC	797	40	34	6	10	6	23	0	0	0	1	0	0	0	0	0
ASC	179	68	54	14	0	0	14	14	0	0	20	0	0	0	20	0
SUS	476	119	119	0	9	0	45	0	0	0	0	0	65	0	0	0
IOO	209	22	18	4	5	0	4	4	0	0	1	0	0	0	8	0
PSL	225	12	12	0	7	0	0	0	0	0	1	0	0	0	4	0
SEI	1	44	44	0	0	0	0	0	0	0	0	0	0	0	44	0
<b>Total</b>	<b>1886</b>	305	281	24	31	6	86	18	0	0	23	0	65	0	76	0
<b>Rates (kB/s)</b>		<b>1886</b>	1358	528	992	384	344	144	0	0	12	0	8	0	2	0

<b>LLO PEM</b>		all		real	16384	16384	2048	2048	512	512	256	256	64	64	16	16
	<b>Rates (kB/s)</b>	both	int16		int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
PEM	392	76	76	0	5	0	56	0	0	0	15	0	0	0	0	0
<b>Rates (kB/s)</b>		<b>392</b>	392	0	160	0	224	0	0	0	8	0	0	0	0	0

<b>LLO Total</b>		all		real	16384	16384	2048	2048	512	512	256	256	64	64	16	16
	<b>Rates (kB/s)</b>	both	int16		int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
<b>Total</b>	<b>2278</b>	381	357	24	36	6	142	18	0	0	38	0	65	0	76	0
<b>Rates (kB/s)</b>		<b>2278</b>	1750	528	1152	384	568	144	0	0	19	0	8	0	2	0

<b>LHO &amp; LLO Total</b>		all		real	16384	16384	2048	2048	512	512	256	256	64	64	16	16
	<b>Rates (kB/s)</b>	both	int16		int16	real	int16	real	int16	real	int16	real	int16	real	int16	real
<b>Total</b>	<b>6975</b>	1,198	1,126	72	106	18	478	54	0	0	109	0	205	0	228	0
<b>Rates (kB/s)</b>		<b>6975</b>	5391	1584	3392	1152	1912	432	0	0	55	0	26	0	7	0

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	::	LSC - GW	0	real	16384		yes					reconstructed gravitational strain readout, L-
H1	::	LSC - COMMONARM	1	real	16384		yes					reconstructed reflection signal, L+
H1	::	LSC - MICHELSON	2	real	16384		yes					reconstructed pick-off signal, l-
H1	::	LSC - RECYCLING	3	real	16384		yes					reconstructed pick-off signal, l+
H1	::	LSC - ANTISYMM_I	4	real	16384		yes					reconstructed antisymmetric port signal, l-phase
H1	::	LSC - REFLECTION_Q	5	real	16384		yes					reconstructed reflection signal, Q-phase
H1	::	LSC - ANTISYMM1_I	6	int16	2048		yes					antisymmetric port, diode 1, l-phase
H1	::	LSC - ANTISYMM1_Q	7	int16	2048		yes					antisymmetric port, diode 1, Q-phase
H1	::	LSC - ANTISYMM2_I	8	int16	2048		yes					antisymmetric port, diode 2, l-phase
H1	::	LSC - ANTISYMM2_Q	9	int16	2048		yes					antisymmetric port, diode 2, Q-phase
H1	::	LSC - ANTYSYMM3_I	10	int16	2048		yes					antisymmetric port, diode 3, l-phase
H1	::	LSC - ANTYSYMM3_Q	11	int16	2048		yes					antisymmetric port, diode 3, Q-phase
H1	::	LSC - ANTYSYMM4_I	12	int16	2048		yes					antisymmetric port, diode 4, l-phase
H1	::	LSC - ANTYSYMM4_Q	13	int16	2048		yes					antisymmetric port, diode 4, Q-phase
H1	::	LSC - ANTYSYMM5_I	14	int16	2048		yes					antisymmetric port, diode 5, l-phase
H1	::	LSC - ANTYSYMM5_Q	15	int16	2048		yes					antisymmetric port, diode 5, Q-phase
H1	::	LSC - ANTYSYMM6_I	16	int16	2048		yes					antisymmetric port, diode 6, l-phase
H1	::	LSC - ANTYSYMM6_Q	17	int16	2048		yes					antisymmetric port, diode 6, Q-phase
H1	::	LSC - REFLECTION1_I	18	int16	2048		yes					reflection port, diode 1, l-phase
H1	::	LSC - REFLECTION1_Q	19	int16	2048		yes					reflection port, diode 1, Q-phase
H1	::	LSC - REFLECTION2_I	20	int16	2048		yes					reflection port, diode 2, l-phase
H1	::	LSC - REFLECTION2_Q	21	int16	2048		yes					reflection port, diode 2, Q-phase
H1	::	LSC - PICKOFFX1_Q	22	int16	2048		yes					RC pick-off at ITM X, diode 1, Q-phase
H1	::	LSC - PICKOFFX1_I	23	int16	2048		yes					RC pick-off at ITM X, diode 1, l-phase
H1	::	LSC - PICKOFFY1_Q	24	int16	2048		yes					RC pick-off at ITM Y, diode 2, Q-phase
H1	::	LSC - PICKOFFY1_I	25	int16	2048		yes					RC pick-off at ITM Y, diode 2, l-phase
H1	::	LSC - LENGTH_ARM_DIFF	26	int16	16384		yes					control signal for differential arm length
H1	::	LSC - LENGTH_ARM_COMMON	27	int16	2048		yes					control signal for common arm length
H1	::	LSC - LENGTH_MICHELSON	28	int16	2048		yes					control signal for Michelson length
H1	::	LSC - LENGTH_RECYCLING	29	int16	2048		yes					control signal for recycling cavity length
H1	::	LSC - LASER_FREQUENCY	30	int16	16384		yes					control signal for laser frequency
H1	::	LSC - LASER_FREQUENCY_TIDE	31	int16	256		yes					control signal for laser frequency (tidal)
H1	::	LSC - ANTISYMM1_DC	32	int16	1	EPICS	yes					antisymmetric port, diode 1, DC signal
H1	::	LSC - ANTISYMM2_DC	33	int16	1	EPICS	yes					antisymmetric port, diode 2, DC signal
H1	::	LSC - ANTISYMM3_DC	34	int16	1	EPICS	yes					antisymmetric port, diode 3, DC signal
H1	::	LSC - ANTISYMM4_DC	35	int16	1	EPICS	yes					antisymmetric port, diode 4, DC signal
H1	::	LSC - ANTISYMM5_DC	36	int16	1	EPICS	yes					antisymmetric port, diode 5, DC signal
H1	::	LSC - ANTISYMM6_DC	37	int16	1	EPICS	yes					antisymmetric port, diode 6, DC signal
H1	::	LSC - REFLECTION1_DC	38	int16	1	EPICS	yes					reflection port, diode 1, DC signal
H1	::	LSC - REFLECTION2_DC	39	int16	1	EPICS	yes					reflection port, diode 2, DC signal
H1	::	LSC - PICKOFFX1_DC	40	int16	1	EPICS	yes					RC pick-off at ITM X, diode 1, DC signal
H1	::	LSC - PICKOFFY1_DC	41	int16	1	EPICS	yes					RC pick-off at ITM Y, diode 1, DC signal
H1	::	LSC - POWER_ANTISYMM	42	int16	16384		yes					beam intensity at the antisymmetric port

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	::	LSC - POWER_REFLECTION	43	int16	16384		yes					beam intensity in reflection
H1	::	LSC - POWER_PICKOFF	44	int16	16384		yes					beam intensity inside the recycling cavity
H1	::	LSC - POWER_ARMX	45	int16	16384		yes					beam intensity in transmission of ETM X
H1	::	LSC - POWER_ARMY	46	int16	16384		yes					beam intensity in transmission of ETM Y
H1	::	LSC - CALIBRATION_ETMX	47	int16	16384		yes					photon calibrator photodiode, ETM X
H1	::	LSC - CALIBRATION_ETMY	48	int16	16384		yes					photon calibrator photodiode, ETM Y
H1	::	LSC - LS_TEMP_ANTISYMM1	49	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 1
H1	::	LSC - LS_TEMP_ANTISYMM2	50	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 2
H1	::	LSC - LS_TEMP_ANTISYMM3	51	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 3
H1	::	LSC - LS_TEMP_ANTISYMM4	52	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 4
H1	::	LSC - LS_TEMP_ANTISYMM5	53	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 5
H1	::	LSC - LS_TEMP_ANTISYMM6	54	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 6
H1	::	LSC - LS_TEMP_REFLECTION1	55	int16	1	EPICS	yes					photodiode temperature, reflection port, unit 1
H1	::	LSC - LS_TEMP_REFLECTION2	56	int16	1	EPICS	yes					photodiode temperature, reflection port, unit 2
H1	::	LSC - LS_TEMP_REFLECTION3	57	int16	1	EPICS	yes					photodiode temperature, reflection port, unit 3
H1	::	LSC - LS_TEMP_REFLECTION4	58	int16	1	EPICS	yes					photodiode temperature, reflection port, unit 4
H1	::	LSC - LS_TEMP_PICKOFFX1	59	int16	1	EPICS	yes					photodiode temperature, pick-off port at ITM X, unit 1
H1	::	LSC - LS_TEMP_PICKOFFY1	60	int16	1	EPICS	yes					photodiode temperature, pick-off port at ITM Y, unit 2
H1	::	LSC - FREQUENCY_SB	61	real	1	EPICS	yes					modulation frequency of res. sidebands
H1	::	LSC - FREQUENCY_NRSB	62	real	1	EPICS	yes					modulation frequency of non-res. sidebands
H1	::	LSC - FREQUENCY_MC	63	real	1	EPICS	yes					modulation frequency of mode cleaner sidebands
H1	::	LSC - MODULATION_SB	64	int16	16384		yes					modulation depth of res. sidebands
H1	::	LSC - MODULATION_SB_SOL	65	int16	1	EPICS	yes					sol value of modulation depth of res. sidebands
H1	::	LSC - MODULATION_NRSB_SOL	66	int16	1	EPICS	yes					value of modulation depth of non-res. sidebands
H1	::	LSC - MODULATION_MC_SOL	67	int16	1	EPICS	yes					value of modulation depth of mode cleaner sidebands
H1	::	LSC - RECYCLING_OFS	68	real	16384	TP	no				yes	stimulus of RC pick-off, I-phase, I+
H1	::	LSC - LENGTH_ARM_DIFF_OFS	69	real	16384	TP	no				yes	control signal stimulus for differential arm length
H1	::	LSC - LENGTH_ARM_COMMON_OFS	70	real	2048	TP	no				yes	control signal stimulus for common arm length
H1	::	LSC - LENGTH_MICHELSON_OFS	71	real	2048	TP	no				yes	control signal stimulus for Michelson length
H1	::	LSC - LENGTH_RECYCLING_OFS	72	real	2048	TP	no				yes	control signal stimulus for recycling cavity length
H1	::	LSC - LASER_FREQUENCY_OFS	73	real	16384	TP	no				yes	control signal stimulus for laser frequency
H1	::	LSC - LASER_FREQUENCY_TIDE_OFS	74	real	256	TP	no				yes	control signal stimulus for laser frequency (tidal)
H1	::	LSC - CALIBRATION_ETMX_LASER	75	int16	16384		no				yes	photon calibrator laser stimulus, ETM X
H1	::	LSC - CALIBRATION_ETMY_LASER	76	int16	16384		no				yes	photon calibrator laser stimulus, ETM Y
H1	::	LSC - LF_MODULATION_SB	77	int16	16384		no				yes	RF source modulation signal, res. sidebands
H1	::	LSC - LF_MODULATION_NRSB	78	int16	16384		no				yes	RF source modulation signal, non-res. sidebands
H1	::	LSC - LF_MODULATION_MC	79	int16	16384		no				yes	RF source modulation signal, mode cleaner sidebands



Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: ASC	- WFS1_R_I	1000	int16	2048		no					wavefront sensor 1, right segment, I-phase
H1	:: ASC	- WFS1_T_I	1001	int16	2048		no					wavefront sensor 1, top segment, I-phase
H1	:: ASC	- WFS1_L_I	1002	int16	2048		no					wavefront sensor 1, left segment, I-phase
H1	:: ASC	- WFS1_B_I	1003	int16	2048		no					wavefront sensor 1, bottom segment, I-phase
H1	:: ASC	- WFS1_R_Q	1004	int16	2048		no					wavefront sensor 1, right segment, Q-phase
H1	:: ASC	- WFS1_T_Q	1005	int16	2048		no					wavefront sensor 1, top segment, Q-phase
H1	:: ASC	- WFS1_L_Q	1006	int16	2048		no					wavefront sensor 1, left segment, Q-phase
H1	:: ASC	- WFS1_B_Q	1007	int16	2048		no					wavefront sensor 1, bottom segment, Q-phase
H1	:: ASC	- WFS1_R_DC	1008	int16	16		yes					wavefront sensor 1, right segment, DC signal
H1	:: ASC	- WFS1_T_DC	1009	int16	16		yes					wavefront sensor 1, top segment, DC signal
H1	:: ASC	- WFS1_L_DC	1010	int16	16		yes					wavefront sensor 1, left segment, DC signal
H1	:: ASC	- WFS1_B_DC	1011	int16	16		yes					wavefront sensor 1, bottom segment, DC signal
H1	:: ASC	- WFS2_R_I	1012	int16	2048		no					wavefront sensor 2, right segment, I-phase
H1	:: ASC	- WFS2_T_I	1013	int16	2048		no					wavefront sensor 2, top segment, I-phase
H1	:: ASC	- WFS2_L_I	1014	int16	2048		no					wavefront sensor 2, left segment, I-phase
H1	:: ASC	- WFS2_B_I	1015	int16	2048		no					wavefront sensor 2, bottom segment, I-phase
H1	:: ASC	- WFS2_R_Q	1016	int16	2048		no					wavefront sensor 2, right segment, Q-phase
H1	:: ASC	- WFS2_T_Q	1017	int16	2048		no					wavefront sensor 2, top segment, Q-phase
H1	:: ASC	- WFS2_L_Q	1018	int16	2048		no					wavefront sensor 2, left segment, Q-phase
H1	:: ASC	- WFS2_B_Q	1019	int16	2048		no					wavefront sensor 2, bottom segment, Q-phase
H1	:: ASC	- WFS2_R_DC	1020	int16	16		yes					wavefront sensor 2, right segment, DC signal
H1	:: ASC	- WFS2_T_DC	1021	int16	16		yes					wavefront sensor 2, top segment, DC signal
H1	:: ASC	- WFS2_L_DC	1022	int16	16		yes					wavefront sensor 2, left segment, DC signal
H1	:: ASC	- WFS2_B_DC	1023	int16	16		yes					wavefront sensor 2, bottom segment, DC signal
H1	:: ASC	- WFS3_R_I	1024	int16	2048		no					wavefront sensor 3, right segment, I-phase
H1	:: ASC	- WFS3_T_I	1025	int16	2048		no					wavefront sensor 3, top segment, I-phase
H1	:: ASC	- WFS3_L_I	1026	int16	2048		no					wavefront sensor 3, left segment, I-phase
H1	:: ASC	- WFS3_B_I	1027	int16	2048		no					wavefront sensor 3, bottom segment, I-phase
H1	:: ASC	- WFS3_R_Q	1028	int16	2048		no					wavefront sensor 3, right segment, Q-phase
H1	:: ASC	- WFS3_T_Q	1029	int16	2048		no					wavefront sensor 3, top segment, Q-phase
H1	:: ASC	- WFS3_L_Q	1030	int16	2048		no					wavefront sensor 3, left segment, Q-phase
H1	:: ASC	- WFS3_B_Q	1031	int16	2048		no					wavefront sensor 3, bottom segment, Q-phase
H1	:: ASC	- WFS3_R_DC	1032	int16	16		yes					wavefront sensor 3, right segment, DC signal
H1	:: ASC	- WFS3_T_DC	1033	int16	16		yes					wavefront sensor 3, top segment, DC signal
H1	:: ASC	- WFS3_L_DC	1034	int16	16		yes					wavefront sensor 3, left segment, DC signal
H1	:: ASC	- WFS3_B_DC	1035	int16	16		yes					wavefront sensor 3, bottom segment, DC signal
H1	:: ASC	- WFS4_R_I	1036	int16	2048		no					wavefront sensor 4, right segment, I-phase
H1	:: ASC	- WFS4_T_I	1037	int16	2048		no					wavefront sensor 4, top segment, I-phase
H1	:: ASC	- WFS4_L_I	1038	int16	2048		no					wavefront sensor 4, left segment, I-phase
H1	:: ASC	- WFS4_B_I	1039	int16	2048		no					wavefront sensor 4, bottom segment, I-phase
H1	:: ASC	- WFS4_R_Q	1040	int16	2048		no					wavefront sensor 4, right segment, Q-phase
H1	:: ASC	- WFS4_T_Q	1041	int16	2048		no					wavefront sensor 4, top segment, Q-phase
H1	:: ASC	- WFS4_L_Q	1042	int16	2048		no					wavefront sensor 4, left segment, Q-phase

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: ASC	- WFS4_B_Q	1043	int16	2048		no					wavefront sensor 4, bottom segment, Q-phase
H1	:: ASC	- WFS4_R_DC	1044	int16	16		yes					wavefront sensor 4, right segment, DC signal
H1	:: ASC	- WFS4_T_DC	1045	int16	16		yes					wavefront sensor 4, top segment, DC signal
H1	:: ASC	- WFS4_L_DC	1046	int16	16		yes					wavefront sensor 4, left segment, DC signal
H1	:: ASC	- WFS4_B_DC	1047	int16	16		yes					wavefront sensor 4, bottom segment, DC signal
H1	:: ASC	- WFS5_R_I	1048	int16	2048		no					wavefront sensor 5, right segment, I-phase
H1	:: ASC	- WFS5_T_I	1049	int16	2048		no					wavefront sensor 5, top segment, I-phase
H1	:: ASC	- WFS5_L_I	1050	int16	2048		no					wavefront sensor 5, left segment, I-phase
H1	:: ASC	- WFS5_B_I	1051	int16	2048		no					wavefront sensor 5, bottom segment, I-phase
H1	:: ASC	- WFS5_R_Q	1052	int16	2048		no					wavefront sensor 5, right segment, Q-phase
H1	:: ASC	- WFS5_T_Q	1053	int16	2048		no					wavefront sensor 5, top segment, Q-phase
H1	:: ASC	- WFS5_L_Q	1054	int16	2048		no					wavefront sensor 5, left segment, Q-phase
H1	:: ASC	- WFS5_B_Q	1055	int16	2048		no					wavefront sensor 5, bottom segment, Q-phase
H1	:: ASC	- WFS5_R_DC	1056	int16	16		yes					wavefront sensor 5, right segment, DC signal
H1	:: ASC	- WFS5_T_DC	1057	int16	16		yes					wavefront sensor 5, top segment, DC signal
H1	:: ASC	- WFS5_L_DC	1058	int16	16		yes					wavefront sensor 5, left segment, DC signal
H1	:: ASC	- WFS5_B_DC	1059	int16	16		yes					wavefront sensor 5, bottom segment, DC signal
H1	:: ASC	- WFS1_LO_PHASE	1060	int16	1	EPICS	yes					wavefront sensor 1, local oscillator phase
H1	:: ASC	- WFS2_LO_PHASE	1061	int16	1	EPICS	yes					wavefront sensor 2, local oscillator phase
H1	:: ASC	- WFS3_LO_PHASE	1062	int16	1	EPICS	yes					wavefront sensor 3, local oscillator phase
H1	:: ASC	- WFS4_LO_PHASE	1063	int16	1	EPICS	yes					wavefront sensor 4, local oscillator phase
H1	:: ASC	- WFS5_LO_PHASE	1064	int16	1	EPICS	yes					wavefront sensor 5, local oscillator phase
H1	:: ASC	- WFS1_GAIN	1065	int16	1	EPICS	yes					wavefront sensor 1, rf gain setting
H1	:: ASC	- WFS2_GAIN	1066	int16	1	EPICS	yes					wavefront sensor 2, rf gain setting
H1	:: ASC	- WFS3_GAIN	1067	int16	1	EPICS	yes					wavefront sensor 3, rf gain setting
H1	:: ASC	- WFS4_GAIN	1068	int16	1	EPICS	yes					wavefront sensor 4, rf gain setting
H1	:: ASC	- WFS5_GAIN	1069	int16	1	EPICS	yes					wavefront sensor 5, rf gain setting
H1	:: ASC	- QPDX_R	1070	int16	2048		no					quadrant position sensor, right segment, X arm
H1	:: ASC	- QPDX_T	1071	int16	2048		no					quadrant position sensor, top segment, X arm
H1	:: ASC	- QPDX_L	1072	int16	2048		no					quadrant position sensor, left segment, X arm
H1	:: ASC	- QPDX_B	1073	int16	2048		no					quadrant position sensor, bottom segment, X arm
H1	:: ASC	- QPDY_R	1074	int16	2048		no					quadrant position sensor, right segment, Y arm
H1	:: ASC	- QPDY_T	1075	int16	2048		no					quadrant position sensor, top segment, Y arm
H1	:: ASC	- QPDY_L	1076	int16	2048		no					quadrant position sensor, left segment, Y arm
H1	:: ASC	- QPDY_B	1077	int16	2048		no					quadrant position sensor, bottom segment, Y arm
H1	:: ASC	- MISALIGN_WFS1_YAW	1078	real	2048		yes					yaw misalignment angle measured by WFS1
H1	:: ASC	- MISALIGN_WFS1_PITCH	1079	real	2048		yes					pitch misalignment angle measured by WFS1
H1	:: ASC	- MISALIGN_WFS2_YAW	1080	real	2048		yes					yaw misalignment angle measured by WFS2
H1	:: ASC	- MISALIGN_WFS2_PITCH	1081	real	2048		yes					pitch misalignment angle measured by WFS2
H1	:: ASC	- MISALIGN_WFS3_YAW	1082	real	2048		yes					yaw misalignment angle measured by WFS3
H1	:: ASC	- MISALIGN_WFS3_PITCH	1083	real	2048		yes					pitch misalignment angle measured by WFS3
H1	:: ASC	- MISALIGN_WFS4_YAW	1084	real	2048		yes					yaw misalignment angle measured by WFS4
H1	:: ASC	- MISALIGN_WFS4_PITCH	1085	real	2048		yes					pitch misalignment angle measured by WFS4

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: ASC	- MISALIGN_WFS5_YAW	1086	real	2048		yes					yaw misalignment angle measured by WFS5
H1	:: ASC	- MISALIGN_WFS5_PITCH	1087	real	2048		yes					pitch misalignment angle measured by WFS5
H1	:: ASC	- POSITION_ETMX_X	1088	real	2048		yes					X position measured by QPM, ETMX
H1	:: ASC	- POSITION_ETMX_Y	1089	real	2048		yes					Y position measured by QPM, ETMX
H1	:: ASC	- POSITION_ETMY_X	1090	real	2048		yes					X position measured by QPM, ETMY
H1	:: ASC	- POSITION_ETMY_Y	1091	real	2048		yes					Y position measured by QPM, ETMY
H1	:: ASC	- ANGLE_ITMX_YAW	1092	int16	2048		yes					control signal for yaw angle of ITM X
H1	:: ASC	- ANGLE_ITMX_PITCH	1093	int16	2048		yes					control signal for pitch angle of ITM X
H1	:: ASC	- ANGLE_ITMY_YAW	1094	int16	2048		yes					control signal for yaw angle of ITM Y
H1	:: ASC	- ANGLE_ITMY_PITCH	1095	int16	2048		yes					control signal for pitch angle of ITM Y
H1	:: ASC	- ANGLE_ETMX_YAW	1096	int16	2048		yes					control signal for yaw angle of ETM X
H1	:: ASC	- ANGLE_ETMX_PITCH	1097	int16	2048		yes					control signal for pitch angle of ETM X
H1	:: ASC	- ANGLE_ETMY_YAW	1098	int16	2048		yes					control signal for yaw angle of ETM Y
H1	:: ASC	- ANGLE_ETMY_PITCH	1099	int16	2048		yes					control signal for pitch angle of ETM Y
H1	:: ASC	- ANGLE_RM_YAW	1100	int16	2048		yes					control signal for yaw angle of RM
H1	:: ASC	- ANGLE_RM_PITCH	1101	int16	2048		yes					control signal for pitch angle of RM
H1	:: ASC	- ANGLE_BS_YAW	1102	int16	2048		yes					control signal for yaw angle of BS
H1	:: ASC	- ANGLE_BS_PITCH	1103	int16	2048		yes					control signal for pitch angle of BS
H1	:: ASC	- ANGLE_IB_YAW	1104	int16	2048		yes					control signal for yaw angle of input beam
H1	:: ASC	- ANGLE_IB_PITCH	1105	int16	2048		yes					control signal for pitch angle of input beam
H1	:: ASC	- OPTLEV_ITMX_YAW	1106	int16	256		yes					optical lever yaw angle of ITM X
H1	:: ASC	- OPTLEV_ITMX_PITCH	1107	int16	256		yes					optical lever pitch angle of ITM X
H1	:: ASC	- OPTLEV_ITMY_YAW	1108	int16	256		yes					optical lever yaw angle of ITM Y
H1	:: ASC	- OPTLEV_ITMY_PITCH	1109	int16	256		yes					optical lever pitch angle of ITM Y
H1	:: ASC	- OPTLEV_ETMX_YAW	1110	int16	256		yes					optical lever yaw angle of ETM X
H1	:: ASC	- OPTLEV_ETMX_PITCH	1111	int16	256		yes					optical lever pitch angle of ETM X
H1	:: ASC	- OPTLEV_ETMY_YAW	1112	int16	256		yes					optical lever yaw angle of ETM Y
H1	:: ASC	- OPTLEV_ETMY_PITCH	1113	int16	256		yes					optical lever pitch angle of ETM Y
H1	:: ASC	- OPTLEV_RM_YAW	1114	int16	256		yes					optical lever yaw angle of RM
H1	:: ASC	- OPTLEV_RM_PITCH	1115	int16	256		yes					optical lever pitch angle of RM
H1	:: ASC	- OPTLEV_BS_YAW	1116	int16	256		yes					optical lever yaw angle of BS
H1	:: ASC	- OPTLEV_BS_PITCH	1117	int16	256		yes					optical lever pitch angle of BS
H1	:: ASC	- OPTLEV_IB_YAW	1118	int16	256		yes					optical lever yaw angle of input beam
H1	:: ASC	- OPTLEV_IB_PITCH	1119	int16	256		yes					optical lever pitch angle of input beam
H1	:: ASC	- OPTLEV_ITMX_I	1120	int16	256		yes					optical lever laser intensity of ITM X
H1	:: ASC	- OPTLEV_ITMY_I	1121	int16	256		yes					optical lever laser intensity of ITM Y
H1	:: ASC	- OPTLEV_ETMX_I	1122	int16	256		yes					optical lever laser intensity of ETM X
H1	:: ASC	- OPTLEV_ETMY_I	1123	int16	256		yes					optical lever laser intensity of ETM Y
H1	:: ASC	- OPTLEV_RM_I	1124	int16	256		yes					optical lever laser intensity of RM
H1	:: ASC	- OPTLEV_BS_I	1125	int16	256		yes					optical lever laser intensity of BS
H1	:: ASC	- WFS1_LO_PHASE_OFS	1126	int16	1	EPICS	no				yes	wavefront sensor 1, local oscillator phase adjustment
H1	:: ASC	- WFS2_LO_PHASE_OFS	1127	int16	1	EPICS	no				yes	wavefront sensor 2, local oscillator phase adjustment
H1	:: ASC	- WFS3_LO_PHASE_OFS	1128	int16	1	EPICS	no				yes	wavefront sensor 3, local oscillator phase adjustment

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: ASC	- WFS4_LO_PHASE_OFS	1129	int16	1	EPICS	no				yes	wavefront sensor 4, local oscillator phase adjustment
H1	:: ASC	- WFS5_LO_PHASE_OFS	1130	int16	1	EPICS	no				yes	wavefront sensor 5, local oscillator phase adjustment
H1	:: ASC	- MISALIGN_ITMX_YAW_OFS	1131	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS1
H1	:: ASC	- MISALIGN_ITMX_PITCH_OFS	1132	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS1
H1	:: ASC	- MISALIGN_ITMY_YAW_OFS	1133	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS2
H1	:: ASC	- MISALIGN_ITMY_PITCH_OFS	1134	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS2
H1	:: ASC	- MISALIGN_ETMX_YAW_OFS	1135	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS3
H1	:: ASC	- MISALIGN_ETMX_PITCH_OFS	1136	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS3
H1	:: ASC	- MISALIGN_ETMY_YAW_OFS	1137	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS4
H1	:: ASC	- MISALIGN_ETMY_PITCH_OFS	1138	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS4
H1	:: ASC	- MISALIGN_RM_YAW_OFS	1139	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS5
H1	:: ASC	- MISALIGN_RM_PITCH_OFS	1140	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS5
H1	:: ASC	- MISALIGN_BS_YAW_OFS	1141	real	2048	TP	no				yes	simulus for X position measured by QPM, ETMX
H1	:: ASC	- MISALIGN_BS_PITCH_OFS	1142	real	2048	TP	no				yes	simulus for Y position measured by QPM, ETMX
H1	:: ASC	- MISALIGN_IB_YAW_OFS	1143	real	2048	TP	no				yes	simulus for X position measured by QPM, ETMY
H1	:: ASC	- MISALIGN_IB_PITCH_OFS	1144	real	2048	TP	no				yes	simulus for Y position measured by QPM, ETMY
H1	:: ASC	- ANGLE_ITMX_YAW_OFS	1145	real	2048	TP	no				yes	simulus for control signal for yaw angle of ITM X
H1	:: ASC	- ANGLE_ITMX_PITCH_OFS	1146	real	2048	TP	no				yes	simulus for control signal for pitch angle of ITM X
H1	:: ASC	- ANGLE_ITMY_YAW_OFS	1147	real	2048	TP	no				yes	simulus for control signal for yaw angle of ITM Y
H1	:: ASC	- ANGLE_ITMY_PITCH_OFS	1148	real	2048	TP	no				yes	simulus for control signal for pitch angle of ITM Y
H1	:: ASC	- ANGLE_ETMX_YAW_OFS	1149	real	2048	TP	no				yes	simulus for control signal for yaw angle of ETM X
H1	:: ASC	- ANGLE_ETMX_PITCH_OFS	1150	real	2048	TP	no				yes	simulus for control signal for pitch angle of ETM X
H1	:: ASC	- ANGLE_ETMY_YAW_OFS	1151	real	2048	TP	no				yes	simulus for control signal for yaw angle of ETM Y
H1	:: ASC	- ANGLE_ETMY_PITCH_OFS	1152	real	2048	TP	no				yes	simulus for control signal for pitch angle of ETM Y
H1	:: ASC	- ANGLE_RM_YAW_OFS	1153	real	2048	TP	no				yes	simulus for control signal for yaw angle of RM
H1	:: ASC	- ANGLE_RM_PITCH_OFS	1154	real	2048	TP	no				yes	simulus for control signal for pitch angle of RM
H1	:: ASC	- ANGLE_BS_YAW_OFS	1155	real	2048	TP	no				yes	simulus for control signal for yaw angle of BS
H1	:: ASC	- ANGLE_BS_PITCH_OFS	1156	real	2048	TP	no				yes	simulus for control signal for pitch angle of BS
H1	:: ASC	- ANGLE_IB_YAW_OFS	1157	real	2048	TP	no				yes	simulus for control signal for yaw angle of input beam
H1	:: ASC	- ANGLE_IB_PITCH_OFS	1158	real	2048	TP	no				yes	simulus for control signal for pitch angle of input beam

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: SUS	- COIL_ITMX_UL	2000	int16	2048		yes					coil current readback, ITM X, upper-left
H1	:: SUS	- COIL_ITMX_UR	2001	int16	2048		yes					coil current readback, ITM X, upper-right
H1	:: SUS	- COIL_ITMX_LL	2002	int16	2048		yes					coil current readback, ITM X, lower-left
H1	:: SUS	- COIL_ITMX_LR	2003	int16	2048		yes					coil current readback, ITM X, lower-right
H1	:: SUS	- COIL_ITMX_S	2004	int16	2048		yes					coil current readback, ITM X, side
H1	:: SUS	- COIL_ITMX_SUM	2005	int16	16384		yes					coil current readback, ITM X, sum
H1	:: SUS	- COIL_ITMY_UL	2006	int16	2048		yes					coil current readback, ITM Y, upper-left
H1	:: SUS	- COIL_ITMY_UR	2007	int16	2048		yes					coil current readback, ITM Y, upper-right
H1	:: SUS	- COIL_ITMY_LL	2008	int16	2048		yes					coil current readback, ITM Y, lower-left
H1	:: SUS	- COIL_ITMY_LR	2009	int16	2048		yes					coil current readback, ITM Y, lower-right
H1	:: SUS	- COIL_ITMY_S	2010	int16	2048		yes					coil current readback, ITM Y, side
H1	:: SUS	- COIL_ITMY_SUM	2011	int16	16384		yes					coil current readback, ITM Y, sum
H1	:: SUS	- COIL_ETMX_UL	2012	int16	2048		yes					coil current readback, ETM X, upper-left
H1	:: SUS	- COIL_ETMX_UR	2013	int16	2048		yes					coil current readback, ETM X, upper-right
H1	:: SUS	- COIL_ETMX_LL	2014	int16	2048		yes					coil current readback, ETM X, lower-left
H1	:: SUS	- COIL_ETMX_LR	2015	int16	2048		yes					coil current readback, ETM X, lower-right
H1	:: SUS	- COIL_ETMX_S	2016	int16	2048		yes					coil current readback, ETM X, side
H1	:: SUS	- COIL_ETMX_SUM	2017	int16	16384		yes					coil current readback, ETM X, sum
H1	:: SUS	- COIL_ETMY_UL	2018	int16	2048		yes					coil current readback, ETM Y, upper-left
H1	:: SUS	- COIL_ETMY_UR	2019	int16	2048		yes					coil current readback, ETM Y, upper-right
H1	:: SUS	- COIL_ETMY_LL	2020	int16	2048		yes					coil current readback, ETM Y, lower-left
H1	:: SUS	- COIL_ETMY_LR	2021	int16	2048		yes					coil current readback, ETM Y, lower-right
H1	:: SUS	- COIL_ETMY_S	2022	int16	2048		yes					coil current readback, ETM Y, side
H1	:: SUS	- COIL_ETMY_SUM	2023	int16	16384		yes					coil current readback, ETM Y, sum
H1	:: SUS	- COIL_RM_UL	2024	int16	2048		yes					coil current readback, RM, upper-left
H1	:: SUS	- COIL_RM_UR	2025	int16	2048		yes					coil current readback, RM, upper-right
H1	:: SUS	- COIL_RM_LL	2026	int16	2048		yes					coil current readback, RM, lower-left
H1	:: SUS	- COIL_RM_LR	2027	int16	2048		yes					coil current readback, RM, lower-right
H1	:: SUS	- COIL_RM_S	2028	int16	2048		yes					coil current readback, RM, side
H1	:: SUS	- COIL_RM_SUM	2029	int16	16384		yes					coil current readback, RM, sum
H1	:: SUS	- COIL_BS_UL	2030	int16	2048		yes					coil current readback, BS, upper-left
H1	:: SUS	- COIL_BS_UR	2031	int16	2048		yes					coil current readback, BS, upper-right
H1	:: SUS	- COIL_BS_LL	2032	int16	2048		yes					coil current readback, BS, lower-left
H1	:: SUS	- COIL_BS_LR	2033	int16	2048		yes					coil current readback, BS, lower-right
H1	:: SUS	- COIL_BS_S	2034	int16	2048		yes					coil current readback, BS, side
H1	:: SUS	- COIL_BS_SUM	2035	int16	16384		yes					coil current readback, BS, sum
H1	:: SUS	- COIL_MC1_UL	2048	int16	2048		yes					coil current readback, mode cleaner 1, upper-left
H1	:: SUS	- COIL_MC1_UR	2049	int16	2048		yes					coil current readback, mode cleaner 1, upper-right
H1	:: SUS	- COIL_MC1_LL	2050	int16	2048		yes					coil current readback, mode cleaner 1, lower-left
H1	:: SUS	- COIL_MC1_LR	2051	int16	2048		yes					coil current readback, mode cleaner 1, lower-right
H1	:: SUS	- COIL_MC1_S	2052	int16	2048		yes					coil current readback, mode cleaner 1, side
H1	:: SUS	- COIL_MC1_SUM	2053	int16	16384		yes					coil current readback, mode cleaner 1, sum
H1	:: SUS	- COIL_MC2_UL	2054	int16	2048		yes					coil current readback, mode cleaner 2, upper-left

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: SUS	- COIL_MC2_UR	2055	int16	2048		yes					coil current readback, mode cleaner 2, upper-right
H1	:: SUS	- COIL_MC2_LL	2056	int16	2048		yes					coil current readback, mode cleaner 2, lower-left
H1	:: SUS	- COIL_MC2_LR	2057	int16	2048		yes					coil current readback, mode cleaner 2, lower-right
H1	:: SUS	- COIL_MC2_S	2058	int16	2048		yes					coil current readback, mode cleaner 2, side
H1	:: SUS	- COIL_MC2_SUM	2059	int16	16384		yes					coil current readback, mode cleaner 2, sum
H1	:: SUS	- COIL_MC3_UL	2060	int16	2048		yes					coil current readback, mode cleaner 3, upper-left
H1	:: SUS	- COIL_MC3_UR	2061	int16	2048		yes					coil current readback, mode cleaner 3, upper-right
H1	:: SUS	- COIL_MC3_LL	2062	int16	2048		yes					coil current readback, mode cleaner 3, lower-left
H1	:: SUS	- COIL_MC3_LR	2063	int16	2048		yes					coil current readback, mode cleaner 3, lower-right
H1	:: SUS	- COIL_MC3_S	2064	int16	2048		yes					coil current readback, mode cleaner 3, side
H1	:: SUS	- COIL_MC3_SUM	2065	int16	16384		yes					coil current readback, mode cleaner 3, sum
H1	:: SUS	- COIL_FM1_UL	12055	int16	2048		no					coil current readback, folding mirror 1, upper-left
H1	:: SUS	- COIL_FM1_UR	12056	int16	2048		no					coil current readback, folding mirror 1, upper-right
H1	:: SUS	- COIL_FM1_LL	12057	int16	2048		no					coil current readback, folding mirror 1, lower-left
H1	:: SUS	- COIL_FM1_LR	12058	int16	2048		no					coil current readback, folding mirror 1, lower-right
H1	:: SUS	- COIL_FM1_S	12059	int16	2048		no					coil current readback, folding mirror 1, side
H1	:: SUS	- COIL_FM1_SUM	12059	int16	16384		no					coil current readback, folding mirror 1, sum
H1	:: SUS	- COIL_MMT1_UL	2078	int16	2048		no					coil current readback, mode matching 1, upper-left
H1	:: SUS	- COIL_MMT1_UR	2079	int16	2048		no					coil current readback, mode matching 1, upper-right
H1	:: SUS	- COIL_MMT1_LL	2080	int16	2048		no					coil current readback, mode matching 1, lower-left
H1	:: SUS	- COIL_MMT1_LR	2081	int16	2048		no					coil current readback, mode matching 1, lower-right
H1	:: SUS	- COIL_MMT1_S	2082	int16	2048		no					coil current readback, mode matching 1, side
H1	:: SUS	- COIL_MMT1_SUM	2083	int16	16384		no					coil current readback, mode matching 1, sum
H1	:: SUS	- COIL_MMT2_UL	2084	int16	2048		no					coil current readback, mode matching 2, upper-left
H1	:: SUS	- COIL_MMT2_UR	2085	int16	2048		no					coil current readback, mode matching 2, upper-right
H1	:: SUS	- COIL_MMT2_LL	2086	int16	2048		no					coil current readback, mode matching 2, lower-left
H1	:: SUS	- COIL_MMT2_LR	2087	int16	2048		no					coil current readback, mode matching 2, lower-right
H1	:: SUS	- COIL_MMT2_S	2088	int16	2048		no					coil current readback, mode matching 2, side
H1	:: SUS	- COIL_MMT2_SUM	2089	int16	16384		no					coil current readback, mode matching 2, sum
H1	:: SUS	- COIL_MMT3_UL	2090	int16	2048		no					coil current readback, mode matching 3, upper-left
H1	:: SUS	- COIL_MMT3_UR	2091	int16	2048		no					coil current readback, mode matching 3, upper-right
H1	:: SUS	- COIL_MMT3_LL	2092	int16	2048		no					coil current readback, mode matching 3, lower-left
H1	:: SUS	- COIL_MMT3_LR	2093	int16	2048		no					coil current readback, mode matching 3, lower-right
H1	:: SUS	- COIL_MMT3_S	2094	int16	2048		no					coil current readback, mode matching 3, side
H1	:: SUS	- COIL_MMT3_SUM	2095	int16	16384		no					coil current readback, mode matching 3, sum
H1	:: SUS	- SENSOR_ITMX_UL	2096	int16	64		yes					local sensor, ITM X, upper-left
H1	:: SUS	- SENSOR_ITMX_UR	2097	int16	64		yes					local sensor, ITM X, upper-right
H1	:: SUS	- SENSOR_ITMX_LL	2098	int16	64		yes					local sensor, ITM X, lower-left
H1	:: SUS	- SENSOR_ITMX_LR	2099	int16	64		yes					local sensor, ITM X, lower-right
H1	:: SUS	- SENSOR_ITMX_S	2100	int16	64		yes					local sensor, ITM X, side
H1	:: SUS	- SENSOR_ITMY_UL	2101	int16	64		yes					local sensor, ITM Y, upper-left
H1	:: SUS	- SENSOR_ITMY_UR	2102	int16	64		yes					local sensor, ITM Y, upper-right
H1	:: SUS	- SENSOR_ITMY_LL	2103	int16	64		yes					local sensor, ITM Y, lower-left

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	::	SUS - SENSOR_ITMY_LR	2104	int16	64		yes					local sensor, ITM Y, lower-right
H1	::	SUS - SENSOR_ITMY_S	2105	int16	64		yes					local sensor, ITM Y, side
H1	::	SUS - SENSOR_ETMX_UL	2106	int16	64		yes					local sensor, ETM X, upper-left
H1	::	SUS - SENSOR_ETMX_UR	2107	int16	64		yes					local sensor, ETM X, upper-right
H1	::	SUS - SENSOR_ETMX_LL	2108	int16	64		yes					local sensor, ETM X, lower-left
H1	::	SUS - SENSOR_ETMX_LR	2109	int16	64		yes					local sensor, ETM X, lower-right
H1	::	SUS - SENSOR_ETMX_S	2110	int16	64		yes					local sensor, ETM X, side
H1	::	SUS - SENSOR_ETMY_UL	2111	int16	64		yes					local sensor, ETM Y, upper-left
H1	::	SUS - SENSOR_ETMY_UR	2112	int16	64		yes					local sensor, ETM Y, upper-right
H1	::	SUS - SENSOR_ETMY_LL	2113	int16	64		yes					local sensor, ETM Y, lower-left
H1	::	SUS - SENSOR_ETMY_LR	2114	int16	64		yes					local sensor, ETM Y, lower-right
H1	::	SUS - SENSOR_ETMY_S	2115	int16	64		yes					local sensor, ETM Y, side
H1	::	SUS - SENSOR_RM_UL	2116	int16	64		yes					local sensor, RM, upper-left
H1	::	SUS - SENSOR_RM_UR	2117	int16	64		yes					local sensor, RM, upper-right
H1	::	SUS - SENSOR_RM_LL	2118	int16	64		yes					local sensor, RM, lower-left
H1	::	SUS - SENSOR_RM_LR	2119	int16	64		yes					local sensor, RM, lower-right
H1	::	SUS - SENSOR_RM_S	2120	int16	64		yes					local sensor, RM, side
H1	::	SUS - SENSOR_BS_UL	2121	int16	64		yes					local sensor, BS, upper-left
H1	::	SUS - SENSOR_BS_UR	2122	int16	64		yes					local sensor, BS, upper-right
H1	::	SUS - SENSOR_BS_LL	2123	int16	64		yes					local sensor, BS, lower-left
H1	::	SUS - SENSOR_BS_LR	2124	int16	64		yes					local sensor, BS, lower-right
H1	::	SUS - SENSOR_BS_S	2125	int16	64		yes					local sensor, BS, side
H1	::	SUS - SENSOR_MC1_UL	2136	int16	64		yes					local sensor, mode cleaner 1, upper-left
H1	::	SUS - SENSOR_MC1_UR	2137	int16	64		yes					local sensor, mode cleaner 1, upper-right
H1	::	SUS - SENSOR_MC1_LL	2138	int16	64		yes					local sensor, mode cleaner 1, lower-left
H1	::	SUS - SENSOR_MC1_LR	2139	int16	64		yes					local sensor, mode cleaner 1, lower-right
H1	::	SUS - SENSOR_MC1_S	2140	int16	64		yes					local sensor, mode cleaner 1, side
H1	::	SUS - SENSOR_MC2_UL	2141	int16	64		yes					local sensor, mode cleaner 2, upper-left
H1	::	SUS - SENSOR_MC2_UR	2142	int16	64		yes					local sensor, mode cleaner 2, upper-right
H1	::	SUS - SENSOR_MC2_LL	2143	int16	64		yes					local sensor, mode cleaner 2, lower-left
H1	::	SUS - SENSOR_MC2_LR	2144	int16	64		yes					local sensor, mode cleaner 2, lower-right
H1	::	SUS - SENSOR_MC2_S	2145	int16	64		yes					local sensor, mode cleaner 2, side
H1	::	SUS - SENSOR_MC3_UL	2146	int16	64		yes					local sensor, mode cleaner 3, upper-left
H1	::	SUS - SENSOR_MC3_UR	2147	int16	64		yes					local sensor, mode cleaner 3, upper-right
H1	::	SUS - SENSOR_MC3_LL	2148	int16	64		yes					local sensor, mode cleaner 3, lower-left
H1	::	SUS - SENSOR_MC3_LR	2149	int16	64		yes					local sensor, mode cleaner 3, lower-right
H1	::	SUS - SENSOR_MC3_S	2150	int16	64		yes					local sensor, mode cleaner 3, side
H1	::	SUS - SENSOR_MMT1_UL	2161	int16	64		yes					local sensor, mode matching 1, upper-left
H1	::	SUS - SENSOR_MMT1_UR	2162	int16	64		yes					local sensor, mode matching 1, upper-right
H1	::	SUS - SENSOR_MMT1_LL	2163	int16	64		yes					local sensor, mode matching 1, lower-left
H1	::	SUS - SENSOR_MMT1_LR	2164	int16	64		yes					local sensor, mode matching 1, lower-right
H1	::	SUS - SENSOR_MMT1_S	2165	int16	64		yes					local sensor, mode matching 1, side
H1	::	SUS - SENSOR_MMT2_UL	2166	int16	64		yes					local sensor, mode matching 2, upper-left

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag. stim.	Description
Sys.	Sub.	Name					full	analy.	trend			
H1	:: SUS	- SENSOR_MMT2_UR	2167	int16	64		yes					local sensor, mode matching 2, upper-right
H1	:: SUS	- SENSOR_MMT2_LL	2168	int16	64		yes					local sensor, mode matching 2, lower-left
H1	:: SUS	- SENSOR_MMT2_LR	2169	int16	64		yes					local sensor, mode matching 2, lower-right
H1	:: SUS	- SENSOR_MMT2_S	2170	int16	64		yes					local sensor, mode matching 2, side
H1	:: SUS	- SENSOR_MMT3_UL	2171	int16	64		yes					local sensor, mode matching 3, upper-left
H1	:: SUS	- SENSOR_MMT3_UR	2172	int16	64		yes					local sensor, mode matching 3, upper-right
H1	:: SUS	- SENSOR_MMT3_LL	2173	int16	64		yes					local sensor, mode matching 3, lower-left
H1	:: SUS	- SENSOR_MMT3_LR	2174	int16	64		yes					local sensor, mode matching 3, lower-right
H1	:: SUS	- SENSOR_MMT3_S	2175	int16	64		yes					local sensor, mode matching 3, side



Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: IOO	- MODECLEANER	3000	int16	16384		yes					mode cleaner length sensor, I-phase
H1	:: IOO	- MODECLEANER_Q	3001	int16	16384		yes					mode cleaner length sensor, Q-phase
H1	:: IOO	- LENGTH_MODECLEANER	3002	int16	256		yes					control signal for mode cleaner length
H1	:: IOO	- LASER_FREQUENCY_MC	3003	int16	16384		yes					control signal for laser frequency
H1	:: IOO	- TEST_OUT1	3004	int16	16384		yes					servo test signal after error signal summing junction
H1	:: IOO	- TEST_OUT2	3005	int16	16384		yes					servo test signal before feedback split MC/laser
H1	:: IOO	- MODECLEANER_DC	3006	int16	1	EPICS	yes					mode cleaner length sensor, DC signal
H1	:: IOO	- LS_TEMP_MC	3007	int16	1	EPICS	yes					photodiode temperature, mode cleaner
H1	:: IOO	- WFS_MC1_R_I	3008	int16	2048		no					MC wavefront sensor 1, right segment, I-phase
H1	:: IOO	- WFS_MC1_T_I	3009	int16	2048		no					MC wavefront sensor 1, top segment, I-phase
H1	:: IOO	- WFS_MC1_L_I	3010	int16	2048		no					MC wavefront sensor 1, left segment, I-phase
H1	:: IOO	- WFS_MC1_B_I	3011	int16	2048		no					MC wavefront sensor 1, bottom segment, I-phase
H1	:: IOO	- WFS_MC1_R_Q	3012	int16	2048		no					MC wavefront sensor 1, right segment, Q-phase
H1	:: IOO	- WFS_MC1_T_Q	3013	int16	2048		no					MC wavefront sensor 1, top segment, Q-phase
H1	:: IOO	- WFS_MC1_L_Q	3014	int16	2048		no					MC wavefront sensor 1, left segment, Q-phase
H1	:: IOO	- WFS_MC1_B_Q	3015	int16	2048		no					MC wavefront sensor 1, bottom segment, Q-phase
H1	:: IOO	- WFS_MC1_R_DC	3016	int16	16		yes					MC wavefront sensor 1, right segment, DC signal
H1	:: IOO	- WFS_MC1_T_DC	3017	int16	16		yes					MC wavefront sensor 1, top segment, DC signal
H1	:: IOO	- WFS_MC1_L_DC	3018	int16	16		yes					MC wavefront sensor 1, left segment, DC signal
H1	:: IOO	- WFS_MC1_B_DC	3019	int16	16		yes					MC wavefront sensor 1, bottom segment, DC signal
H1	:: IOO	- WFS_MC2_R_I	3020	int16	2048		no					MC wavefront sensor 2, right segment, I-phase
H1	:: IOO	- WFS_MC2_T_I	3021	int16	2048		no					MC wavefront sensor 2, top segment, I-phase
H1	:: IOO	- WFS_MC2_L_I	3022	int16	2048		no					MC wavefront sensor 2, left segment, I-phase
H1	:: IOO	- WFS_MC2_B_I	3023	int16	2048		no					MC wavefront sensor 2, bottom segment, I-phase
H1	:: IOO	- WFS_MC2_R_Q	3024	int16	2048		no					MC wavefront sensor 2, right segment, Q-phase
H1	:: IOO	- WFS_MC2_T_Q	3025	int16	2048		no					MC wavefront sensor 2, top segment, Q-phase
H1	:: IOO	- WFS_MC2_L_Q	3026	int16	2048		no					MC wavefront sensor 2, left segment, Q-phase
H1	:: IOO	- WFS_MC2_B_Q	3027	int16	2048		no					MC wavefront sensor 2, bottom segment, Q-phase
H1	:: IOO	- WFS_MC2_R_DC	3028	int16	16		yes					MC wavefront sensor 2, right segment, DC signal
H1	:: IOO	- WFS_MC2_T_DC	3029	int16	16		yes					MC wavefront sensor 2, top segment, DC signal
H1	:: IOO	- WFS_MC2_L_DC	3030	int16	16		yes					MC wavefront sensor 2, left segment, DC signal
H1	:: IOO	- WFS_MC2_B_DC	3031	int16	16		yes					MC wavefront sensor 2, bottom segment, DC signal
H1	:: IOO	- MISALIGN_MC1_YAW	3032	real	2048		yes					yaw misalignment angle, differential mode cleaner
H1	:: IOO	- MISALIGN_MC1_PITCH	3033	real	2048		yes					pitch misalignment angle, differential mode cleaner
H1	:: IOO	- MISALIGN_MC2_YAW	3034	real	2048		yes					yaw misalignment angle, common mode cleaner
H1	:: IOO	- MISALIGN_MC2_PITCH	3035	real	2048		yes					pitch misalignment angle, common mode cleaner
H1	:: IOO	- ANGLE_MC_IB_YAW	3036	int16	2048		yes					control signal for yaw angle of MC input beam
H1	:: IOO	- ANGLE_MC_IB_PITCH	3037	int16	2048		yes					control signal for pitch angle of MC input beam
H1	:: IOO	- SHIFT_MC_IB_HOR	3038	int16	2048		yes					control signal for horizontal shift of MC input beam
H1	:: IOO	- SHIFT_MC_IB_VER	3039	int16	2048		yes					control signal for vertical shift of MC input beam
H1	:: IOO	- WFS_MM1_D_I	3040	int16	256		no					mode matching sensor 1, disk, I-phase
H1	:: IOO	- WFS_MM1_R1_I	3041	int16	256		no					mode matching sensor 1, ring segment 1, I-phase
H1	:: IOO	- WFS_MM1_R2_I	3042	int16	256		no					mode matching sensor 1, ring segment 2, I-phase

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: IOO	- WFS_MM1_R3_I	3043	int16	256		no					mode matching sensor 1, ring segment 3, I-phase
H1	:: IOO	- WFS_MM1_D_Q	3044	int16	256		no					mode matching sensor 1, disk, Q-phase
H1	:: IOO	- WFS_MM1_R1_Q	3045	int16	256		no					mode matching sensor 1, ring segment 1, Q-phase
H1	:: IOO	- WFS_MM1_R2_Q	3046	int16	256		no					mode matching sensor 1, ring segment 2, Q-phase
H1	:: IOO	- WFS_MM1_R3_Q	3047	int16	256		no					mode matching sensor 1, ring segment 3, Q-phase
H1	:: IOO	- WFS_MM1_D_DC	3048	int16	16		no					mode matching sensor 1, disk, DC signal
H1	:: IOO	- WFS_MM1_R1_DC	3049	int16	16		no					mode matching sensor 1, ring segment 1, DC signal
H1	:: IOO	- WFS_MM1_R2_DC	3050	int16	16		no					mode matching sensor 1, ring segment 2, DC signal
H1	:: IOO	- WFS_MM1_R3_DC	3051	int16	16		no					mode matching sensor 1, ring segment 3, DC signal
H1	:: IOO	- WFS_MM2_D_I	3052	int16	256		no					mode matching sensor 2, disk, I-phase
H1	:: IOO	- WFS_MM2_R1_I	3053	int16	256		no					mode matching sensor 2, ring segment 1, I-phase
H1	:: IOO	- WFS_MM2_R2_I	3054	int16	256		no					mode matching sensor 2, ring segment 2, I-phase
H1	:: IOO	- WFS_MM2_R3_I	3055	int16	256		no					mode matching sensor 2, ring segment 3, I-phase
H1	:: IOO	- WFS_MM2_D_Q	3056	int16	256		no					mode matching sensor 2, disk, Q-phase
H1	:: IOO	- WFS_MM2_R1_Q	3057	int16	256		no					mode matching sensor 2, ring segment 1, Q-phase
H1	:: IOO	- WFS_MM2_R2_Q	3058	int16	256		no					mode matching sensor 2, ring segment 2, Q-phase
H1	:: IOO	- WFS_MM2_R3_Q	3059	int16	256		no					mode matching sensor 2, ring segment 3, Q-phase
H1	:: IOO	- WFS_MM2_D_DC	3060	int16	16		no					mode matching sensor 2, disk, DC signal
H1	:: IOO	- WFS_MM2_R1_DC	3061	int16	16		no					mode matching sensor 2, ring segment 1, DC signal
H1	:: IOO	- WFS_MM2_R2_DC	3062	int16	16		no					mode matching sensor 2, ring segment 2, DC signal
H1	:: IOO	- WFS_MM2_R3_DC	3063	int16	16		no					mode matching sensor 2, ring segment 3, DC signal
H1	:: IOO	- MODECLEANER_I_OFS	3064	int16	16384		no				yes	stimulus for mode cleaner length error signal
H1	:: IOO	- LENGTH_MODECLEANER_OFS	3065	int16	16384		no				yes	stimulus for control signal for mode cleaner length
H1	:: IOO	- TEST_IN1	3066	int16	256		no				yes	stimulus after servo feedback split: MC path
H1	:: IOO	- TEST_IN2	3067	int16	16384		no				yes	stimulus after servo feedback split: laser path
H1	:: IOO	- MISALIGN_MC1_YAW_OFS	3068	real	2048	TP	no				yes	stimulus for yaw misalignment angle, differential MC
H1	:: IOO	- MISALIGN_MC1_PITCH_OFS	3069	real	2048	TP	no				yes	stimulus for pitch misalignment angle, differential MC
H1	:: IOO	- MISALIGN_MC2_YAW_OFS	3070	real	2048	TP	no				yes	stimulus for yaw misalignment angle, common MC
H1	:: IOO	- MISALIGN_MC2_PITCH_OFS	3071	real	2048	TP	no				yes	stimulus for pitch misalignment angle, common MC
H1	:: IOO	- ANGLE_MC_IB_YAW_OFS	3072	real	2048	TP	no				yes	control signal stimulus for yaw angle of MC input beam
H1	:: IOO	- ANGLE_MC_IB_PITCH_OFS	3073	real	2048	TP	no				yes	control signal stimulus for pitch angle of MC input beam
H1	:: IOO	- SHIFT_MC_IB_HOR_OFS	3074	real	2048	TP	no				yes	control signal stimulus for horiz. shift of MC input beam
H1	:: IOO	- SHIFT_MC_IB_VER_OFS	3075	real	2048	TP	no				yes	control signal stimulus for vert. shift of MC input beam
H1	:: IOO	- LENGTH_MMT1_OFS	3076	int16	256		no				yes	stimulus for MMT1 position
H1	:: IOO	- LENGTH_MMT2_OFS	3077	int16	256		no				yes	stimulus for MMT2 position
H1	:: IOO	- LENGTH_MMT3_OFS	3078	int16	256		no				yes	stimulus for MMT3 position

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	::	PSL - REFCAV_I	4000	int16	16384		yes					reference cavity, I-phase
H1	::	PSL - REFCAV_DC	4001	int16	16		yes					reference cavity, DC signal
H1	::	PSL - REFCAV_TRANS	4002	int16	16		yes					reference cavity, transmitted signal
H1	::	PSL - LASER_FREQUENCY_EOM	4003	int16	16384		yes					control signal for frequency stabilization, electro-opt.
H1	::	PSL - LASER_FREQUENCY_FAST	4004	int16	16384		yes					control signal for frequency stabilization, fast PZT
H1	::	PSL - LASER_FREQUENCY_SLOW	4005	int16	256		yes					control signal for frequency stabilization, slow PZT
H1	::	PSL - LASER_FREQUENCY_AOM	4006	int16	16384		yes					control signal for frequency stabilization, acousto-opt.
H1	::	PSL - LASER_POWER	4007	int16	16384		yes					laser power monitor
H1	::	PSL - PMC_I	4008	int16	16384		yes					pre-mode cleaner, I-phase
H1	::	PSL - PMC_DC	4009	int16	16		yes					pre-mode cleaner, DC signal
H1	::	PSL - PMC_TRANS	4010	int16	16		yes					pre-mode cleaner, transmitted signal
H1	::	PSL - LASER_POWER_RAW	4011	int16	16384		yes					raw laser power going to IOO
H1	::	PSL - LASER_FREQUENCY_AOM_OFS	4012	int16	16384		no				yes	stimulus for laser frequency offset, AOM
H1	::	PSL - LASER_POWER_OFS	4013	int16	16384		no				yes	stimulus for laser power modulation

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: SEI	- COARSE_ITMX_UX	5000	int16	16		yes					coarse actuator position, ITM X, UX
H1	:: SEI	- COARSE_ITMX_UY	5001	int16	16		yes					coarse actuator position, ITM X, UY
H1	:: SEI	- COARSE_ITMX_UZ	5002	int16	16		yes					coarse actuator position, ITM X, UZ
H1	:: SEI	- COARSE_ITMX_RZ	5003	int16	16		yes					coarse actuator orientation, ITM X, RZ
H1	:: SEI	- COARSE_ITMY_UX	5004	int16	16		yes					coarse actuator position, ITM Y, UX
H1	:: SEI	- COARSE_ITMY_UY	5005	int16	16		yes					coarse actuator position, ITM Y, UY
H1	:: SEI	- COARSE_ITMY_UZ	5006	int16	16		yes					coarse actuator position, ITM Y, UZ
H1	:: SEI	- COARSE_ITMY_RZ	5007	int16	16		yes					coarse actuator orientation, ITM Y, RZ
H1	:: SEI	- COARSE_ETMX_UX	5008	int16	16		yes					coarse actuator position, ETM X, UX
H1	:: SEI	- COARSE_ETMX_UY	5009	int16	16		yes					coarse actuator position, ETM X, UY
H1	:: SEI	- COARSE_ETMX_UZ	5010	int16	16		yes					coarse actuator position, ETM X, UZ
H1	:: SEI	- COARSE_ETMX_RZ	5011	int16	16		yes					coarse actuator orientation, ETM X, RZ
H1	:: SEI	- COARSE_ETMY_UX	5012	int16	16		yes					coarse actuator position, ETM Y, UX
H1	:: SEI	- COARSE_ETMY_UY	5013	int16	16		yes					coarse actuator position, ETM Y, UY
H1	:: SEI	- COARSE_ETMY_UZ	5014	int16	16		yes					coarse actuator position, ETM Y, UZ
H1	:: SEI	- COARSE_ETMY_RZ	5015	int16	16		yes					coarse actuator orientation, ETM Y, RZ
H1	:: SEI	- COARSE_RM_UX	5016	int16	16		yes					coarse actuator position, RM, UX
H1	:: SEI	- COARSE_RM_UY	5017	int16	16		yes					coarse actuator position, RM, UY
H1	:: SEI	- COARSE_RM_UZ	5018	int16	16		yes					coarse actuator position, RM, UZ
H1	:: SEI	- COARSE_RM_RZ	5019	int16	16		yes					coarse actuator orientation, RM, RZ
H1	:: SEI	- COARSE_BS_UX	5020	int16	16		yes					coarse actuator position, BS, UX
H1	:: SEI	- COARSE_BS_UY	5021	int16	16		yes					coarse actuator position, BS, UY
H1	:: SEI	- COARSE_BS_UZ	5022	int16	16		yes					coarse actuator position, BS, UZ
H1	:: SEI	- COARSE_BS_RZ	5023	int16	16		yes					coarse actuator orientation, BS, RZ
H1	:: SEI	- COARSE_IN1_UX	5024	int16	16		yes					coarse actuator position, 1st input HAM, UX
H1	:: SEI	- COARSE_IN1_UY	5025	int16	16		yes					coarse actuator position, 1st input HAM, UY
H1	:: SEI	- COARSE_IN1_UZ	5026	int16	16		yes					coarse actuator position, 1st input HAM, UZ
H1	:: SEI	- COARSE_IN1_RZ	5027	int16	16		yes					coarse actuator orientation, 1st input HAM, RZ
H1	:: SEI	- COARSE_IN2_UX	5028	int16	16		yes					coarse actuator position, 2nd input HAM, UX
H1	:: SEI	- COARSE_IN2_UY	5029	int16	16		yes					coarse actuator position, 2nd input HAM, UY
H1	:: SEI	- COARSE_IN2_UZ	5030	int16	16		yes					coarse actuator position, 2nd input HAM, UZ
H1	:: SEI	- COARSE_IN2_RZ	5031	int16	16		yes					coarse actuator orientation, 2nd input HAM, RZ
H1	:: SEI	- COARSE_OUT1_UX	5032	int16	16		yes					coarse actuator position, 1st output HAM, UX
H1	:: SEI	- COARSE_OUT1_UY	5033	int16	16		yes					coarse actuator position, 1st output HAM, UY
H1	:: SEI	- COARSE_OUT1_UZ	5034	int16	16		yes					coarse actuator position, 1st output HAM, UZ
H1	:: SEI	- COARSE_OUT1_RZ	5035	int16	16		yes					coarse actuator orientation, 1st output HAM, RZ
H1	:: SEI	- COARSE_OUT2_UX	5036	int16	16		yes					coarse actuator position, 2nd output HAM, UX
H1	:: SEI	- COARSE_OUT2_UY	5037	int16	16		yes					coarse actuator position, 2nd output HAM, UY
H1	:: SEI	- COARSE_OUT2_UZ	5038	int16	16		yes					coarse actuator position, 2nd output HAM, UZ
H1	:: SEI	- COARSE_OUT2_RZ	5039	int16	16		yes					coarse actuator orientation, 2nd output HAM, RZ
H1	:: SEI	- COARSE_OUT3_UX	5040	int16	16		no					coarse actuator position, 3rd output HAM, UX
H1	:: SEI	- COARSE_OUT3_UY	5041	int16	16		no					coarse actuator position, 3rd output HAM, UY
H1	:: SEI	- COARSE_OUT3_UZ	5042	int16	16		no					coarse actuator position, 3rd output HAM, UZ

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H1	:: SEI	- COARSE_OUT3_RZ	5043	int16	16		no					coarse actuator orientation, 3rd output HAM, RZ
H1	:: SEI	- FINE_ITMX_UX	5044	int16	16		yes					fine actuator position, ITM X, UX
H1	:: SEI	- FINE_ITMY_UX	5045	int16	16		yes					fine actuator position, ITM Y, UX
H1	:: SEI	- FINE_ETMX_UX	5046	int16	16		yes					fine actuator position, ETM X, UX
H1	:: SEI	- FINE_ETMY_UX	5047	int16	16		yes					fine actuator position, ETM Y, UX

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: LSC	- GW	10000	real	16384		yes					reconstructed gravitational strain readout, L-
H2	:: LSC	- COMMONARM	10001	real	16384		yes					reconstructed reflection signal, L+
H2	:: LSC	- MICHELSON	10002	real	16384		yes					reconstructed pick-off signal, I-
H2	:: LSC	- RECYCLING	10003	real	16384		yes					reconstructed pick-off signal, I+
H2	:: LSC	- ANTISYMM_I	10004	real	16384		yes					reconstructed antisymmetric port signal, I-phase
H2	:: LSC	- REFLECTION_Q	10005	real	16384		yes					reconstructed reflection signal, Q-phase
H2	:: LSC	- ANTISYMM1_I	10006	int16	2048		yes					antisymmetric port, diode 1, I-phase
H2	:: LSC	- ANTISYMM1_Q	10007	int16	2048		yes					antisymmetric port, diode 1, Q-phase
H2	:: LSC	- ANTISYMM2_I	10008	int16	2048		yes					antisymmetric port, diode 2, I-phase
H2	:: LSC	- ANTISYMM2_Q	10009	int16	2048		yes					antisymmetric port, diode 2, Q-phase
H2	:: LSC	- ANTYSYMM3_I	10010	int16	2048		yes					antisymmetric port, diode 3, I-phase
H2	:: LSC	- ANTYSYMM3_Q	10011	int16	2048		yes					antisymmetric port, diode 3, Q-phase
H2	:: LSC	- ANTYSYMM4_I	10012	int16	2048		yes					antisymmetric port, diode 4, I-phase
H2	:: LSC	- ANTYSYMM4_Q	10013	int16	2048		yes					antisymmetric port, diode 4, Q-phase
H2	:: LSC	- ANTYSYMM5_I	10014	int16	2048		yes					antisymmetric port, diode 5, I-phase
H2	:: LSC	- ANTYSYMM5_Q	10015	int16	2048		yes					antisymmetric port, diode 5, Q-phase
H2	:: LSC	- ANTYSYMM6_I	10016	int16	2048		yes					antisymmetric port, diode 6, I-phase
H2	:: LSC	- ANTYSYMM6_Q	10017	int16	2048		yes					antisymmetric port, diode 6, Q-phase
H2	:: LSC	- REFLECTION1_I	10018	int16	2048		yes					reflection port, diode 1, I-phase
H2	:: LSC	- REFLECTION1_Q	10019	int16	2048		yes					reflection port, diode 1, Q-phase
H2	:: LSC	- REFLECTION2_I	10020	int16	2048		yes					reflection port, diode 2, I-phase
H2	:: LSC	- REFLECTION2_Q	10021	int16	2048		yes					reflection port, diode 2, Q-phase
H2	:: LSC	- PICKOFFX1_Q	10022	int16	2048		yes					RC pick-off at ITM X, diode 1, Q-phase
H2	:: LSC	- PICKOFFX1_I	10023	int16	2048		yes					RC pick-off at ITM X, diode 1, I-phase
H2	:: LSC	- PICKOFFY1_Q	10024	int16	2048		yes					RC pick-off at ITM Y, diode 2, Q-phase
H2	:: LSC	- PICKOFFY1_I	10025	int16	2048		yes					RC pick-off at ITM Y, diode 2, I-phase
H2	:: LSC	- LENGTH_ARM_DIFF	10026	int16	16384		yes					control signal for differential arm length
H2	:: LSC	- LENGTH_ARM_COMMON	10027	int16	2048		yes					control signal for common arm length
H2	:: LSC	- LENGTH_MICHELSON	10028	int16	2048		yes					control signal for Michelson length
H2	:: LSC	- LENGTH_RECYCLING	10029	int16	2048		yes					control signal for recycling cavity length
H2	:: LSC	- LASER_FREQUENCY	10030	int16	16384		yes					control signal for laser frequency
H2	:: LSC	- LASER_FREQUENCY_TIDE	10031	int16	256		yes					control signal for laser frequency (tidal)
H2	:: LSC	- ANTISYMM1_DC	10032	int16	1	EPICS	yes					antisymmetric port, diode 1, DC signal
H2	:: LSC	- ANTISYMM2_DC	10033	int16	1	EPICS	yes					antisymmetric port, diode 2, DC signal
H2	:: LSC	- ANTISYMM3_DC	10034	int16	1	EPICS	yes					antisymmetric port, diode 3, DC signal
H2	:: LSC	- ANTISYMM4_DC	10035	int16	1	EPICS	yes					antisymmetric port, diode 4, DC signal
H2	:: LSC	- ANTISYMM5_DC	10036	int16	1	EPICS	yes					antisymmetric port, diode 5, DC signal
H2	:: LSC	- ANTISYMM6_DC	10037	int16	1	EPICS	yes					antisymmetric port, diode 6, DC signal
H2	:: LSC	- REFLECTION1_DC	10038	int16	1	EPICS	yes					reflection port, diode 1, DC signal
H2	:: LSC	- REFLECTION2_DC	10039	int16	1	EPICS	yes					reflection port, diode 2, DC signal
H2	:: LSC	- PICKOFFX1_DC	10040	int16	1	EPICS	yes					RC pick-off at ITM X, diode 1, DC signal
H2	:: LSC	- PICKOFFY1_DC	10041	int16	1	EPICS	yes					RC pick-off at ITM Y, diode 1, DC signal
H2	:: LSC	- POWER_ANTISYMM	10042	int16	16384		yes					beam intensity at the antisymmetric port

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	::	LSC - POWER_REFLECTION	10043	int16	16384		yes					beam intensity in reflection
H2	::	LSC - POWER_PICKOFF	10044	int16	16384		yes					beam intensity inside the recycling cavity
H2	::	LSC - POWER_ARMX	10045	int16	16384		yes					beam intensity in transmission of ETM X
H2	::	LSC - POWER_ARMY	10046	int16	16384		yes					beam intensity in transmission of ETM Y
H2	::	LSC - CALIBRATION_ETMX	10047	int16	16384		yes					photon calibrator photodiode, ETM X
H2	::	LSC - CALIBRATION_ETMY	10048	int16	16384		yes					photon calibrator photodiode, ETM Y
H2	::	LSC - LS_TEMP_ANTISYMM1	10049	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 1
H2	::	LSC - LS_TEMP_ANTISYMM2	10050	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 2
H2	::	LSC - LS_TEMP_ANTISYMM3	10051	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 3
H2	::	LSC - LS_TEMP_ANTISYMM4	10052	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 4
H2	::	LSC - LS_TEMP_ANTISYMM5	10053	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 5
H2	::	LSC - LS_TEMP_ANTISYMM6	10054	int16	1	EPICS	yes					photodiode temperature, antisymmetric port, unit 6
H2	::	LSC - LS_TEMP_REFLECTION1	10055	int16	1	EPICS	yes					photodiode temperature, reflection port, unit 1
H2	::	LSC - LS_TEMP_REFLECTION2	10056	int16	1	EPICS	yes					photodiode temperature, reflection port, unit 2
H2	::	LSC - LS_TEMP_REFLECTION3	10057	int16	1	EPICS	yes					photodiode temperature, reflection port, unit 3
H2	::	LSC - LS_TEMP_REFLECTION4	10058	int16	1	EPICS	yes					photodiode temperature, reflection port, unit 4
H2	::	LSC - LS_TEMP_PICKOFFX1	10059	int16	1	EPICS	yes					photodiode temperature, pick-off port at ITM X, unit 1
H2	::	LSC - LS_TEMP_PICKOFFY1	10060	int16	1	EPICS	yes					photodiode temperature, pick-off port at ITM Y, unit 2
H2	::	LSC - FREQUENCY_SB	10061	real	1	EPICS	yes					modulation frequency of res. sidebands
H2	::	LSC - FREQUENCY_NRSB	10062	real	1	EPICS	yes					modulation frequency of non-res. sidebands
H2	::	LSC - FREQUENCY_MC	10063	real	1	EPICS	yes					modulation frequency of mode cleaner sidebands
H2	::	LSC - MODULATION_SB	10064	int16	16384		yes					modulation depth of res. sidebands
H2	::	LSC - MODULATION_SB_SOL	10065	int16	1	EPICS	yes					sol value of modulation depth of res. sidebands
H2	::	LSC - MODULATION_NRSB_SOL	10066	int16	1	EPICS	yes					value of modulation depth of non-res. sidebands
H2	::	LSC - MODULATION_MC_SOL	10067	int16	1	EPICS	yes					value of modulation depth of mode cleaner sidebands
H2	::	LSC - RECYCLING_OFS	10068	real	16384	TP	no				yes	stimulus of RC pick-off, I-phase, I+
H2	::	LSC - LENGTH_ARM_DIFF_OFS	10069	real	16384	TP	no				yes	control signal stimulus for differential arm length
H2	::	LSC - LENGTH_ARM_COMMON_OFS	10070	real	2048	TP	no				yes	control signal stimulus for common arm length
H2	::	LSC - LENGTH_MICHELSON_OFS	10071	real	2048	TP	no				yes	control signal stimulus for Michelson length
H2	::	LSC - LENGTH_RECYCLING_OFS	10072	real	2048	TP	no				yes	control signal stimulus for recycling cavity length
H2	::	LSC - LASER_FREQUENCY_OFS	10073	real	16384	TP	no				yes	control signal stimulus for laser frequency
H2	::	LSC - LASER_FREQUENCY_TIDE_OFS	10074	real	256	TP	no				yes	control signal stimulus for laser frequency (tidal)
H2	::	LSC - CALIBRATION_ETMX_LASER	10075	int16	16384		no				yes	photon calibrator laser stimulus, ETM X
H2	::	LSC - CALIBRATION_ETMY_LASER	10076	int16	16384		no				yes	photon calibrator laser stimulus, ETM Y
H2	::	LSC - LF_MODULATION_SB	10077	int16	16384		no				yes	RF source modulation signal, res. sidebands
H2	::	LSC - LF_MODULATION_NRSB	10078	int16	16384		no				yes	RF source modulation signal, non-res. sidebands
H2	::	LSC - LF_MODULATION_MC	10079	int16	16384		no				yes	RF source modulation signal, mode cleaner sidebands

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	::	ASC - WFS1_R_I	11000	int16	2048		no					wavefront sensor 1, right segment, I-phase
H2	::	ASC - WFS1_T_I	11001	int16	2048		no					wavefront sensor 1, top segment, I-phase
H2	::	ASC - WFS1_L_I	11002	int16	2048		no					wavefront sensor 1, left segment, I-phase
H2	::	ASC - WFS1_B_I	11003	int16	2048		no					wavefront sensor 1, bottom segment, I-phase
H2	::	ASC - WFS1_R_Q	11004	int16	2048		no					wavefront sensor 1, right segment, Q-phase
H2	::	ASC - WFS1_T_Q	11005	int16	2048		no					wavefront sensor 1, top segment, Q-phase
H2	::	ASC - WFS1_L_Q	11006	int16	2048		no					wavefront sensor 1, left segment, Q-phase
H2	::	ASC - WFS1_B_Q	11007	int16	2048		no					wavefront sensor 1, bottom segment, Q-phase
H2	::	ASC - WFS1_R_DC	11008	int16	16		yes					wavefront sensor 1, right segment, DC signal
H2	::	ASC - WFS1_T_DC	11009	int16	16		yes					wavefront sensor 1, top segment, DC signal
H2	::	ASC - WFS1_L_DC	11010	int16	16		yes					wavefront sensor 1, left segment, DC signal
H2	::	ASC - WFS1_B_DC	11011	int16	16		yes					wavefront sensor 1, bottom segment, DC signal
H2	::	ASC - WFS2_R_I	11012	int16	2048		no					wavefront sensor 2, right segment, I-phase
H2	::	ASC - WFS2_T_I	11013	int16	2048		no					wavefront sensor 2, top segment, I-phase
H2	::	ASC - WFS2_L_I	11014	int16	2048		no					wavefront sensor 2, left segment, I-phase
H2	::	ASC - WFS2_B_I	11015	int16	2048		no					wavefront sensor 2, bottom segment, I-phase
H2	::	ASC - WFS2_R_Q	11016	int16	2048		no					wavefront sensor 2, right segment, Q-phase
H2	::	ASC - WFS2_T_Q	11017	int16	2048		no					wavefront sensor 2, top segment, Q-phase
H2	::	ASC - WFS2_L_Q	11018	int16	2048		no					wavefront sensor 2, left segment, Q-phase
H2	::	ASC - WFS2_B_Q	11019	int16	2048		no					wavefront sensor 2, bottom segment, Q-phase
H2	::	ASC - WFS2_R_DC	11020	int16	16		yes					wavefront sensor 2, right segment, DC signal
H2	::	ASC - WFS2_T_DC	11021	int16	16		yes					wavefront sensor 2, top segment, DC signal
H2	::	ASC - WFS2_L_DC	11022	int16	16		yes					wavefront sensor 2, left segment, DC signal
H2	::	ASC - WFS2_B_DC	11023	int16	16		yes					wavefront sensor 2, bottom segment, DC signal
H2	::	ASC - WFS3_R_I	11024	int16	2048		no					wavefront sensor 3, right segment, I-phase
H2	::	ASC - WFS3_T_I	11025	int16	2048		no					wavefront sensor 3, top segment, I-phase
H2	::	ASC - WFS3_L_I	11026	int16	2048		no					wavefront sensor 3, left segment, I-phase
H2	::	ASC - WFS3_B_I	11027	int16	2048		no					wavefront sensor 3, bottom segment, I-phase
H2	::	ASC - WFS3_R_Q	11028	int16	2048		no					wavefront sensor 3, right segment, Q-phase
H2	::	ASC - WFS3_T_Q	11029	int16	2048		no					wavefront sensor 3, top segment, Q-phase
H2	::	ASC - WFS3_L_Q	11030	int16	2048		no					wavefront sensor 3, left segment, Q-phase
H2	::	ASC - WFS3_B_Q	11031	int16	2048		no					wavefront sensor 3, bottom segment, Q-phase
H2	::	ASC - WFS3_R_DC	11032	int16	16		yes					wavefront sensor 3, right segment, DC signal
H2	::	ASC - WFS3_T_DC	11033	int16	16		yes					wavefront sensor 3, top segment, DC signal
H2	::	ASC - WFS3_L_DC	11034	int16	16		yes					wavefront sensor 3, left segment, DC signal
H2	::	ASC - WFS3_B_DC	11035	int16	16		yes					wavefront sensor 3, bottom segment, DC signal
H2	::	ASC - WFS4_R_I	11036	int16	2048		no					wavefront sensor 4, right segment, I-phase
H2	::	ASC - WFS4_T_I	11037	int16	2048		no					wavefront sensor 4, top segment, I-phase
H2	::	ASC - WFS4_L_I	11038	int16	2048		no					wavefront sensor 4, left segment, I-phase
H2	::	ASC - WFS4_B_I	11039	int16	2048		no					wavefront sensor 4, bottom segment, I-phase
H2	::	ASC - WFS4_R_Q	11040	int16	2048		no					wavefront sensor 4, right segment, Q-phase
H2	::	ASC - WFS4_T_Q	11041	int16	2048		no					wavefront sensor 4, top segment, Q-phase
H2	::	ASC - WFS4_L_Q	11042	int16	2048		no					wavefront sensor 4, left segment, Q-phase



Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	::	ASC - WFS4_B_Q	11043	int16	2048		no					wavefront sensor 4, bottom segment, Q-phase
H2	::	ASC - WFS4_R_DC	11044	int16	16		yes					wavefront sensor 4, right segment, DC signal
H2	::	ASC - WFS4_T_DC	11045	int16	16		yes					wavefront sensor 4, top segment, DC signal
H2	::	ASC - WFS4_L_DC	11046	int16	16		yes					wavefront sensor 4, left segment, DC signal
H2	::	ASC - WFS4_B_DC	11047	int16	16		yes					wavefront sensor 4, bottom segment, DC signal
H2	::	ASC - WFS5_R_I	11048	int16	2048		no					wavefront sensor 5, right segment, I-phase
H2	::	ASC - WFS5_T_I	11049	int16	2048		no					wavefront sensor 5, top segment, I-phase
H2	::	ASC - WFS5_L_I	11050	int16	2048		no					wavefront sensor 5, left segment, I-phase
H2	::	ASC - WFS5_B_I	11051	int16	2048		no					wavefront sensor 5, bottom segment, I-phase
H2	::	ASC - WFS5_R_Q	11052	int16	2048		no					wavefront sensor 5, right segment, Q-phase
H2	::	ASC - WFS5_T_Q	11053	int16	2048		no					wavefront sensor 5, top segment, Q-phase
H2	::	ASC - WFS5_L_Q	11054	int16	2048		no					wavefront sensor 5, left segment, Q-phase
H2	::	ASC - WFS5_B_Q	11055	int16	2048		no					wavefront sensor 5, bottom segment, Q-phase
H2	::	ASC - WFS5_R_DC	11056	int16	16		yes					wavefront sensor 5, right segment, DC signal
H2	::	ASC - WFS5_T_DC	11057	int16	16		yes					wavefront sensor 5, top segment, DC signal
H2	::	ASC - WFS5_L_DC	11058	int16	16		yes					wavefront sensor 5, left segment, DC signal
H2	::	ASC - WFS5_B_DC	11059	int16	16		yes					wavefront sensor 5, bottom segment, DC signal
H2	::	ASC - WFS1_LO_PHASE	11060	int16	1	EPICS	yes					wavefront sensor 1, local oscillator phase
H2	::	ASC - WFS2_LO_PHASE	11061	int16	1	EPICS	yes					wavefront sensor 2, local oscillator phase
H2	::	ASC - WFS3_LO_PHASE	11062	int16	1	EPICS	yes					wavefront sensor 3, local oscillator phase
H2	::	ASC - WFS4_LO_PHASE	11063	int16	1	EPICS	yes					wavefront sensor 4, local oscillator phase
H2	::	ASC - WFS5_LO_PHASE	11064	int16	1	EPICS	yes					wavefront sensor 5, local oscillator phase
H2	::	ASC - WFS1_GAIN	11065	int16	1	EPICS	yes					wavefront sensor 1, rf gain setting
H2	::	ASC - WFS2_GAIN	11066	int16	1	EPICS	yes					wavefront sensor 2, rf gain setting
H2	::	ASC - WFS3_GAIN	11067	int16	1	EPICS	yes					wavefront sensor 3, rf gain setting
H2	::	ASC - WFS4_GAIN	11068	int16	1	EPICS	yes					wavefront sensor 4, rf gain setting
H2	::	ASC - WFS5_GAIN	11069	int16	1	EPICS	yes					wavefront sensor 5, rf gain setting
H2	::	ASC - QPDX_R	11070	int16	2048		no					quadrant position sensor, right segment, X arm
H2	::	ASC - QPDX_T	11071	int16	2048		no					quadrant position sensor, top segment, X arm
H2	::	ASC - QPDX_L	11072	int16	2048		no					quadrant position sensor, left segment, X arm
H2	::	ASC - QPDX_B	11073	int16	2048		no					quadrant position sensor, bottom segment, X arm
H2	::	ASC - QPDY_R	11074	int16	2048		no					quadrant position sensor, right segment, Y arm
H2	::	ASC - QPDY_T	11075	int16	2048		no					quadrant position sensor, top segment, Y arm
H2	::	ASC - QPDY_L	11076	int16	2048		no					quadrant position sensor, left segment, Y arm
H2	::	ASC - QPDY_B	11077	int16	2048		no					quadrant position sensor, bottom segment, Y arm
H2	::	ASC - MISALIGN_WFS1_YAW	11078	real	2048		yes					yaw misalignment angle measured by WFS1
H2	::	ASC - MISALIGN_WFS1_PITCH	11079	real	2048		yes					pitch misalignment angle measured by WFS1
H2	::	ASC - MISALIGN_WFS2_YAW	11080	real	2048		yes					yaw misalignment angle measured by WFS2
H2	::	ASC - MISALIGN_WFS2_PITCH	11081	real	2048		yes					pitch misalignment angle measured by WFS2
H2	::	ASC - MISALIGN_WFS3_YAW	11082	real	2048		yes					yaw misalignment angle measured by WFS3
H2	::	ASC - MISALIGN_WFS3_PITCH	11083	real	2048		yes					pitch misalignment angle measured by WFS3
H2	::	ASC - MISALIGN_WFS4_YAW	11084	real	2048		yes					yaw misalignment angle measured by WFS4
H2	::	ASC - MISALIGN_WFS4_PITCH	11085	real	2048		yes					pitch misalignment angle measured by WFS4

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: ASC	- MISALIGN_WFS5_YAW	11086	real	2048		yes					yaw misalignment angle measured by WFS5
H2	:: ASC	- MISALIGN_WFS5_PITCH	11087	real	2048		yes					pitch misalignment angle measured by WFS5
H2	:: ASC	- POSITION_ETMX_X	11088	real	2048		yes					X position measured by QPM, ETMX
H2	:: ASC	- POSITION_ETMX_Y	11089	real	2048		yes					Y position measured by QPM, ETMX
H2	:: ASC	- POSITION_ETMY_X	11090	real	2048		yes					X position measured by QPM, ETMY
H2	:: ASC	- POSITION_ETMY_Y	11091	real	2048		yes					Y position measured by QPM, ETMY
H2	:: ASC	- ANGLE_ITMX_YAW	11092	int16	2048		yes					control signal for yaw angle of ITM X
H2	:: ASC	- ANGLE_ITMX_PITCH	11093	int16	2048		yes					control signal for pitch angle of ITM X
H2	:: ASC	- ANGLE_ITMY_YAW	11094	int16	2048		yes					control signal for yaw angle of ITM Y
H2	:: ASC	- ANGLE_ITMY_PITCH	11095	int16	2048		yes					control signal for pitch angle of ITM Y
H2	:: ASC	- ANGLE_ETMX_YAW	11096	int16	2048		yes					control signal for yaw angle of ETM X
H2	:: ASC	- ANGLE_ETMX_PITCH	11097	int16	2048		yes					control signal for pitch angle of ETM X
H2	:: ASC	- ANGLE_ETMY_YAW	11098	int16	2048		yes					control signal for yaw angle of ETM Y
H2	:: ASC	- ANGLE_ETMY_PITCH	11099	int16	2048		yes					control signal for pitch angle of ETM Y
H2	:: ASC	- ANGLE_RM_YAW	11100	int16	2048		yes					control signal for yaw angle of RM
H2	:: ASC	- ANGLE_RM_PITCH	11101	int16	2048		yes					control signal for pitch angle of RM
H2	:: ASC	- ANGLE_BS_YAW	11102	int16	2048		yes					control signal for yaw angle of BS
H2	:: ASC	- ANGLE_BS_PITCH	11103	int16	2048		yes					control signal for pitch angle of BS
H2	:: ASC	- ANGLE_IB_YAW	11104	int16	2048		yes					control signal for yaw angle of input beam
H2	:: ASC	- ANGLE_IB_PITCH	11105	int16	2048		yes					control signal for pitch angle of input beam
H2	:: ASC	- OPTLEV_ITMX_YAW	11106	int16	256		yes					optical lever yaw angle of ITM X
H2	:: ASC	- OPTLEV_ITMX_PITCH	11107	int16	256		yes					optical lever pitch angle of ITM X
H2	:: ASC	- OPTLEV_ITMY_YAW	11108	int16	256		yes					optical lever yaw angle of ITM Y
H2	:: ASC	- OPTLEV_ITMY_PITCH	11109	int16	256		yes					optical lever pitch angle of ITM Y
H2	:: ASC	- OPTLEV_ETMX_YAW	11110	int16	256		yes					optical lever yaw angle of ETM X
H2	:: ASC	- OPTLEV_ETMX_PITCH	11111	int16	256		yes					optical lever pitch angle of ETM X
H2	:: ASC	- OPTLEV_ETMY_YAW	11112	int16	256		yes					optical lever yaw angle of ETM Y
H2	:: ASC	- OPTLEV_ETMY_PITCH	11113	int16	256		yes					optical lever pitch angle of ETM Y
H2	:: ASC	- OPTLEV_RM_YAW	11114	int16	256		yes					optical lever yaw angle of RM
H2	:: ASC	- OPTLEV_RM_PITCH	11115	int16	256		yes					optical lever pitch angle of RM
H2	:: ASC	- OPTLEV_BS_YAW	11116	int16	256		yes					optical lever yaw angle of BS
H2	:: ASC	- OPTLEV_BS_PITCH	11117	int16	256		yes					optical lever pitch angle of BS
H2	:: ASC	- OPTLEV_IB_YAW	11118	int16	256		yes					optical lever yaw angle of input beam
H2	:: ASC	- OPTLEV_IB_PITCH	11119	int16	256		yes					optical lever pitch angle of input beam
H2	:: ASC	- OPTLEV_ITMX_I	11120	int16	256		yes					optical lever laser intensity of ITM X
H2	:: ASC	- OPTLEV_ITMY_I	11121	int16	256		yes					optical lever laser intensity of ITM Y
H2	:: ASC	- OPTLEV_ETMX_I	11122	int16	256		yes					optical lever laser intensity of ETM X
H2	:: ASC	- OPTLEV_ETMY_I	11123	int16	256		yes					optical lever laser intensity of ETM Y
H2	:: ASC	- OPTLEV_RM_I	11124	int16	256		yes					optical lever laser intensity of RM
H2	:: ASC	- OPTLEV_BS_I	11125	int16	256		yes					optical lever laser intensity of BS
H2	:: ASC	- WFS1_LO_PHASE_OFS	11126	int16	1	EPICS	no				yes	wavefront sensor 1, local oscillator phase adjustment
H2	:: ASC	- WFS2_LO_PHASE_OFS	11127	int16	1	EPICS	no				yes	wavefront sensor 2, local oscillator phase adjustment
H2	:: ASC	- WFS3_LO_PHASE_OFS	11128	int16	1	EPICS	no				yes	wavefront sensor 3, local oscillator phase adjustment

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: ASC	- WFS4_LO_PHASE_OFS	11129	int16	1	EPICS	no				yes	wavefront sensor 4, local oscillator phase adjustment
H2	:: ASC	- WFS5_LO_PHASE_OFS	11130	int16	1	EPICS	no				yes	wavefront sensor 5, local oscillator phase adjustment
H2	:: ASC	- MISALIGN_ITMX_YAW_OFS	11131	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS1
H2	:: ASC	- MISALIGN_ITMX_PITCH_OFS	11132	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS1
H2	:: ASC	- MISALIGN_ITMY_YAW_OFS	11133	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS2
H2	:: ASC	- MISALIGN_ITMY_PITCH_OFS	11134	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS2
H2	:: ASC	- MISALIGN_ETMX_YAW_OFS	11135	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS3
H2	:: ASC	- MISALIGN_ETMX_PITCH_OFS	11136	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS3
H2	:: ASC	- MISALIGN_ETMY_YAW_OFS	11137	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS4
H2	:: ASC	- MISALIGN_ETMY_PITCH_OFS	11138	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS4
H2	:: ASC	- MISALIGN_RM_YAW_OFS	11139	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS5
H2	:: ASC	- MISALIGN_RM_PITCH_OFS	11140	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS5
H2	:: ASC	- MISALIGN_BS_YAW_OFS	11141	real	2048	TP	no				yes	simulus for X position measured by QPM, ETMX
H2	:: ASC	- MISALIGN_BS_PITCH_OFS	11142	real	2048	TP	no				yes	simulus for Y position measured by QPM, ETMX
H2	:: ASC	- MISALIGN_IB_YAW_OFS	11143	real	2048	TP	no				yes	simulus for X position measured by QPM, ETMY
H2	:: ASC	- MISALIGN_IB_PITCH_OFS	11144	real	2048	TP	no				yes	simulus for Y position measured by QPM, ETMY
H2	:: ASC	- ANGLE_ITMX_YAW_OFS	11145	real	2048	TP	no				yes	simulus for control signal for yaw angle of ITM X
H2	:: ASC	- ANGLE_ITMX_PITCH_OFS	11146	real	2048	TP	no				yes	simulus for control signal for pitch angle of ITM X
H2	:: ASC	- ANGLE_ITMY_YAW_OFS	11147	real	2048	TP	no				yes	simulus for control signal for yaw angle of ITM Y
H2	:: ASC	- ANGLE_ITMY_PITCH_OFS	11148	real	2048	TP	no				yes	simulus for control signal for pitch angle of ITM Y
H2	:: ASC	- ANGLE_ETMX_YAW_OFS	11149	real	2048	TP	no				yes	simulus for control signal for yaw angle of ETM X
H2	:: ASC	- ANGLE_ETMX_PITCH_OFS	11150	real	2048	TP	no				yes	simulus for control signal for pitch angle of ETM X
H2	:: ASC	- ANGLE_ETMY_YAW_OFS	11151	real	2048	TP	no				yes	simulus for control signal for yaw angle of ETM Y
H2	:: ASC	- ANGLE_ETMY_PITCH_OFS	11152	real	2048	TP	no				yes	simulus for control signal for pitch angle of ETM Y
H2	:: ASC	- ANGLE_RM_YAW_OFS	11153	real	2048	TP	no				yes	simulus for control signal for yaw angle of RM
H2	:: ASC	- ANGLE_RM_PITCH_OFS	11154	real	2048	TP	no				yes	simulus for control signal for pitch angle of RM
H2	:: ASC	- ANGLE_BS_YAW_OFS	11155	real	2048	TP	no				yes	simulus for control signal for yaw angle of BS
H2	:: ASC	- ANGLE_BS_PITCH_OFS	11156	real	2048	TP	no				yes	simulus for control signal for pitch angle of BS
H2	:: ASC	- ANGLE_IB_YAW_OFS	11157	real	2048	TP	no				yes	simulus for control signal for yaw angle of input beam
H2	:: ASC	- ANGLE_IB_PITCH_OFS	11158	real	2048	TP	no				yes	simulus for control signal for pitch angle of input beam

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: SUS	- COIL_ITMX_UL	12000	int16	2048		yes					coil current readback, ITM X, upper-left
H2	:: SUS	- COIL_ITMX_UR	12001	int16	2048		yes					coil current readback, ITM X, upper-right
H2	:: SUS	- COIL_ITMX_LL	12002	int16	2048		yes					coil current readback, ITM X, lower-left
H2	:: SUS	- COIL_ITMX_LR	12003	int16	2048		yes					coil current readback, ITM X, lower-right
H2	:: SUS	- COIL_ITMX_S	12004	int16	2048		yes					coil current readback, ITM X, side
H2	:: SUS	- COIL_ITMX_SUM	12005	int16	16384		yes					coil current readback, ITM X, sum
H2	:: SUS	- COIL_ITMY_UL	12006	int16	2048		yes					coil current readback, ITM Y, upper-left
H2	:: SUS	- COIL_ITMY_UR	12007	int16	2048		yes					coil current readback, ITM Y, upper-right
H2	:: SUS	- COIL_ITMY_LL	12008	int16	2048		yes					coil current readback, ITM Y, lower-left
H2	:: SUS	- COIL_ITMY_LR	12009	int16	2048		yes					coil current readback, ITM Y, lower-right
H2	:: SUS	- COIL_ITMY_S	12010	int16	2048		yes					coil current readback, ITM Y, side
H2	:: SUS	- COIL_ITMY_SUM	12011	int16	16384		yes					coil current readback, ITM Y, sum
H2	:: SUS	- COIL_ETMX_UL	12012	int16	2048		yes					coil current readback, ETM X, upper-left
H2	:: SUS	- COIL_ETMX_UR	12013	int16	2048		yes					coil current readback, ETM X, upper-right
H2	:: SUS	- COIL_ETMX_LL	12014	int16	2048		yes					coil current readback, ETM X, lower-left
H2	:: SUS	- COIL_ETMX_LR	12015	int16	2048		yes					coil current readback, ETM X, lower-right
H2	:: SUS	- COIL_ETMX_S	12016	int16	2048		yes					coil current readback, ETM X, side
H2	:: SUS	- COIL_ETMX_SUM	12017	int16	16384		yes					coil current readback, ETM X, sum
H2	:: SUS	- COIL_ETMY_UL	12018	int16	2048		yes					coil current readback, ETM Y, upper-left
H2	:: SUS	- COIL_ETMY_UR	12019	int16	2048		yes					coil current readback, ETM Y, upper-right
H2	:: SUS	- COIL_ETMY_LL	12020	int16	2048		yes					coil current readback, ETM Y, lower-left
H2	:: SUS	- COIL_ETMY_LR	12021	int16	2048		yes					coil current readback, ETM Y, lower-right
H2	:: SUS	- COIL_ETMY_S	12022	int16	2048		yes					coil current readback, ETM Y, side
H2	:: SUS	- COIL_ETMY_SUM	12023	int16	16384		yes					coil current readback, ETM Y, sum
H2	:: SUS	- COIL_RM_UL	12024	int16	2048		yes					coil current readback, RM, upper-left
H2	:: SUS	- COIL_RM_UR	12025	int16	2048		yes					coil current readback, RM, upper-right
H2	:: SUS	- COIL_RM_LL	12026	int16	2048		yes					coil current readback, RM, lower-left
H2	:: SUS	- COIL_RM_LR	12027	int16	2048		yes					coil current readback, RM, lower-right
H2	:: SUS	- COIL_RM_S	12028	int16	2048		yes					coil current readback, RM, side
H2	:: SUS	- COIL_RM_SUM	12029	int16	16384		yes					coil current readback, RM, sum
H2	:: SUS	- COIL_BS_UL	12030	int16	2048		yes					coil current readback, BS, upper-left
H2	:: SUS	- COIL_BS_UR	12031	int16	2048		yes					coil current readback, BS, upper-right
H2	:: SUS	- COIL_BS_LL	12032	int16	2048		yes					coil current readback, BS, lower-left
H2	:: SUS	- COIL_BS_LR	12033	int16	2048		yes					coil current readback, BS, lower-right
H2	:: SUS	- COIL_BS_S	12034	int16	2048		yes					coil current readback, BS, side
H2	:: SUS	- COIL_BS_SUM	12035	int16	16384		yes					coil current readback, BS, sum
H2	:: SUS	- COIL_FMX_UL	12036	int16	2048		yes					coil current readback, FMX, upper-left
H2	:: SUS	- COIL_FMX_UR	12037	int16	2048		yes					coil current readback, FMX, upper-right
H2	:: SUS	- COIL_FMX_LL	12038	int16	2048		yes					coil current readback, FMX, lower-left
H2	:: SUS	- COIL_FMX_LR	12039	int16	2048		yes					coil current readback, FMX, lower-right
H2	:: SUS	- COIL_FMX_S	12040	int16	2048		yes					coil current readback, FMX, side
H2	:: SUS	- COIL_FMX_SUM	12041	int16	16384		yes					coil current readback, FMX, sum
H2	:: SUS	- COIL_FMY_UL	12042	int16	2048		yes					coil current readback, FMY, upper-left

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: SUS	- COIL_FMY_UR	12043	int16	2048		yes					coil current readback, FMY, upper-right
H2	:: SUS	- COIL_FMY_LL	12044	int16	2048		yes					coil current readback, FMY, lower-left
H2	:: SUS	- COIL_FMY_LR	12045	int16	2048		yes					coil current readback, FMY, lower-right
H2	:: SUS	- COIL_FMY_S	12046	int16	2048		yes					coil current readback, FMY, side
H2	:: SUS	- COIL_FMY_SUM	12047	int16	16384		yes					coil current readback, FMY, sum
H2	:: SUS	- COIL_MC1_UL	12048	int16	2048		yes					coil current readback, mode cleaner 1, upper-left
H2	:: SUS	- COIL_MC1_UR	12049	int16	2048		yes					coil current readback, mode cleaner 1, upper-right
H2	:: SUS	- COIL_MC1_LL	12050	int16	2048		yes					coil current readback, mode cleaner 1, lower-left
H2	:: SUS	- COIL_MC1_LR	12051	int16	2048		yes					coil current readback, mode cleaner 1, lower-right
H2	:: SUS	- COIL_MC1_S	12052	int16	2048		yes					coil current readback, mode cleaner 1, side
H2	:: SUS	- COIL_MC1_SUM	12053	int16	16384		yes					coil current readback, mode cleaner 1, sum
H2	:: SUS	- COIL_MC2_UL	12054	int16	2048		yes					coil current readback, mode cleaner 2, upper-left
H2	:: SUS	- COIL_MC2_UR	12055	int16	2048		yes					coil current readback, mode cleaner 2, upper-right
H2	:: SUS	- COIL_MC2_LL	12056	int16	2048		yes					coil current readback, mode cleaner 2, lower-left
H2	:: SUS	- COIL_MC2_LR	12057	int16	2048		yes					coil current readback, mode cleaner 2, lower-right
H2	:: SUS	- COIL_MC2_S	12058	int16	2048		yes					coil current readback, mode cleaner 2, side
H2	:: SUS	- COIL_MC2_SUM	12059	int16	16384		yes					coil current readback, mode cleaner 2, sum
H2	:: SUS	- COIL_MC3_UL	12060	int16	2048		yes					coil current readback, mode cleaner 3, upper-left
H2	:: SUS	- COIL_MC3_UR	12061	int16	2048		yes					coil current readback, mode cleaner 3, upper-right
H2	:: SUS	- COIL_MC3_LL	12062	int16	2048		yes					coil current readback, mode cleaner 3, lower-left
H2	:: SUS	- COIL_MC3_LR	12063	int16	2048		yes					coil current readback, mode cleaner 3, lower-right
H2	:: SUS	- COIL_MC3_S	12064	int16	2048		yes					coil current readback, mode cleaner 3, side
H2	:: SUS	- COIL_MC3_SUM	12065	int16	16384		yes					coil current readback, mode cleaner 3, sum
H2	:: SUS	- COIL_FM1_UL	12066	int16	2048		no					coil current readback, folding mirror 1, upper-left
H2	:: SUS	- COIL_FM1_UR	12067	int16	2048		no					coil current readback, folding mirror 1, upper-right
H2	:: SUS	- COIL_FM1_LL	12068	int16	2048		no					coil current readback, folding mirror 1, lower-left
H2	:: SUS	- COIL_FM1_LR	12069	int16	2048		no					coil current readback, folding mirror 1, lower-right
H2	:: SUS	- COIL_FM1_S	12070	int16	2048		no					coil current readback, folding mirror 1, side
H2	:: SUS	- COIL_FM1_SUM	12071	int16	16384		no					coil current readback, folding mirror 1, sum
H2	:: SUS	- COIL_FM2_UL	12072	int16	2048		no					coil current readback, folding mirror 2, upper-left
H2	:: SUS	- COIL_FM2_UR	12073	int16	2048		no					coil current readback, folding mirror 2, upper-right
H2	:: SUS	- COIL_FM2_LL	12074	int16	2048		no					coil current readback, folding mirror 2, lower-left
H2	:: SUS	- COIL_FM2_LR	12075	int16	2048		no					coil current readback, folding mirror 2, lower-right
H2	:: SUS	- COIL_FM2_S	12076	int16	2048		no					coil current readback, folding mirror 2, side
H2	:: SUS	- COIL_FM2_SUM	12077	int16	16384		no					coil current readback, folding mirror 2, sum
H2	:: SUS	- COIL_MMT1_UL	12078	int16	2048		no					coil current readback, mode matching 1, upper-left
H2	:: SUS	- COIL_MMT1_UR	12079	int16	2048		no					coil current readback, mode matching 1, upper-right
H2	:: SUS	- COIL_MMT1_LL	12080	int16	2048		no					coil current readback, mode matching 1, lower-left
H2	:: SUS	- COIL_MMT1_LR	12081	int16	2048		no					coil current readback, mode matching 1, lower-right
H2	:: SUS	- COIL_MMT1_S	12082	int16	2048		no					coil current readback, mode matching 1, side
H2	:: SUS	- COIL_MMT1_SUM	12083	int16	16384		no					coil current readback, mode matching 1, sum
H2	:: SUS	- COIL_MMT2_UL	12084	int16	2048		no					coil current readback, mode matching 2, upper-left
H2	:: SUS	- COIL_MMT2_UR	12085	int16	2048		no					coil current readback, mode matching 2, upper-right

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: SUS	- COIL_MMT2_LL	12086	int16	2048		no					coil current readback, mode matching 2, lower-left
H2	:: SUS	- COIL_MMT2_LR	12087	int16	2048		no					coil current readback, mode matching 2, lower-right
H2	:: SUS	- COIL_MMT2_S	12088	int16	2048		no					coil current readback, mode matching 2, side
H2	:: SUS	- COIL_MMT2_SUM	12089	int16	16384		no					coil current readback, mode matching 2, sum
H2	:: SUS	- COIL_MMT3_UL	12090	int16	2048		no					coil current readback, mode matching 3, upper-left
H2	:: SUS	- COIL_MMT3_UR	12091	int16	2048		no					coil current readback, mode matching 3, upper-right
H2	:: SUS	- COIL_MMT3_LL	12092	int16	2048		no					coil current readback, mode matching 3, lower-left
H2	:: SUS	- COIL_MMT3_LR	12093	int16	2048		no					coil current readback, mode matching 3, lower-right
H2	:: SUS	- COIL_MMT3_S	12094	int16	2048		no					coil current readback, mode matching 3, side
H2	:: SUS	- COIL_MMT3_SUM	12095	int16	16384		no					coil current readback, mode matching 3, sum
H2	:: SUS	- SENSOR_ITMX_UL	12096	int16	64		yes					local sensor, ITM X, upper-left
H2	:: SUS	- SENSOR_ITMX_UR	12097	int16	64		yes					local sensor, ITM X, upper-right
H2	:: SUS	- SENSOR_ITMX_LL	12098	int16	64		yes					local sensor, ITM X, lower-left
H2	:: SUS	- SENSOR_ITMX_LR	12099	int16	64		yes					local sensor, ITM X, lower-right
H2	:: SUS	- SENSOR_ITMX_S	12100	int16	64		yes					local sensor, ITM X, side
H2	:: SUS	- SENSOR_ITMY_UL	12101	int16	64		yes					local sensor, ITM Y, upper-left
H2	:: SUS	- SENSOR_ITMY_UR	12102	int16	64		yes					local sensor, ITM Y, upper-right
H2	:: SUS	- SENSOR_ITMY_LL	12103	int16	64		yes					local sensor, ITM Y, lower-left
H2	:: SUS	- SENSOR_ITMY_LR	12104	int16	64		yes					local sensor, ITM Y, lower-right
H2	:: SUS	- SENSOR_ITMY_S	12105	int16	64		yes					local sensor, ITM Y, side
H2	:: SUS	- SENSOR_ETMX_UL	12106	int16	64		yes					local sensor, ETM X, upper-left
H2	:: SUS	- SENSOR_ETMX_UR	12107	int16	64		yes					local sensor, ETM X, upper-right
H2	:: SUS	- SENSOR_ETMX_LL	12108	int16	64		yes					local sensor, ETM X, lower-left
H2	:: SUS	- SENSOR_ETMX_LR	12109	int16	64		yes					local sensor, ETM X, lower-right
H2	:: SUS	- SENSOR_ETMX_S	12110	int16	64		yes					local sensor, ETM X, side
H2	:: SUS	- SENSOR_ETMY_UL	12111	int16	64		yes					local sensor, ETM Y, upper-left
H2	:: SUS	- SENSOR_ETMY_UR	12112	int16	64		yes					local sensor, ETM Y, upper-right
H2	:: SUS	- SENSOR_ETMY_LL	12113	int16	64		yes					local sensor, ETM Y, lower-left
H2	:: SUS	- SENSOR_ETMY_LR	12114	int16	64		yes					local sensor, ETM Y, lower-right
H2	:: SUS	- SENSOR_ETMY_S	12115	int16	64		yes					local sensor, ETM Y, side
H2	:: SUS	- SENSOR_RM_UL	12116	int16	64		yes					local sensor, RM, upper-left
H2	:: SUS	- SENSOR_RM_UR	12117	int16	64		yes					local sensor, RM, upper-right
H2	:: SUS	- SENSOR_RM_LL	12118	int16	64		yes					local sensor, RM, lower-left
H2	:: SUS	- SENSOR_RM_LR	12119	int16	64		yes					local sensor, RM, lower-right
H2	:: SUS	- SENSOR_RM_S	12120	int16	64		yes					local sensor, RM, side
H2	:: SUS	- SENSOR_BS_UL	12121	int16	64		yes					local sensor, BS, upper-left
H2	:: SUS	- SENSOR_BS_UR	12122	int16	64		yes					local sensor, BS, upper-right
H2	:: SUS	- SENSOR_BS_LL	12123	int16	64		yes					local sensor, BS, lower-left
H2	:: SUS	- SENSOR_BS_LR	12124	int16	64		yes					local sensor, BS, lower-right
H2	:: SUS	- SENSOR_BS_S	12125	int16	64		yes					local sensor, BS, side
H2	:: SUS	- SENSOR_FMX_UL	12126	int16	64		yes					local sensor, FMX, upper-left
H2	:: SUS	- SENSOR_FMX_UR	12127	int16	64		yes					local sensor, FMX, upper-right
H2	:: SUS	- SENSOR_FMX_LL	12128	int16	64		yes					local sensor, FMX, lower-left

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	::	SUS - SENSOR_FMX_LR	12129	int16	64		yes					local sensor, FMX, lower-right
H2	::	SUS - SENSOR_FMX_S	12130	int16	64		yes					local sensor, FMX, side
H2	::	SUS - SENSOR_FMY_UL	12131	int16	64		yes					local sensor, FMY, upper-left
H2	::	SUS - SENSOR_FMY_UR	12132	int16	64		yes					local sensor, FMY, upper-right
H2	::	SUS - SENSOR_FMY_LL	12133	int16	64		yes					local sensor, FMY, lower-left
H2	::	SUS - SENSOR_FMY_LR	12134	int16	64		yes					local sensor, FMY, lower-right
H2	::	SUS - SENSOR_FMY_S	12135	int16	64		yes					local sensor, FMY, side
H2	::	SUS - SENSOR_MC1_UL	12136	int16	64		yes					local sensor, mode cleaner 1, upper-left
H2	::	SUS - SENSOR_MC1_UR	12137	int16	64		yes					local sensor, mode cleaner 1, upper-right
H2	::	SUS - SENSOR_MC1_LL	12138	int16	64		yes					local sensor, mode cleaner 1, lower-left
H2	::	SUS - SENSOR_MC1_LR	12139	int16	64		yes					local sensor, mode cleaner 1, lower-right
H2	::	SUS - SENSOR_MC1_S	12140	int16	64		yes					local sensor, mode cleaner 1, side
H2	::	SUS - SENSOR_MC2_UL	12141	int16	64		yes					local sensor, mode cleaner 2, upper-left
H2	::	SUS - SENSOR_MC2_UR	12142	int16	64		yes					local sensor, mode cleaner 2, upper-right
H2	::	SUS - SENSOR_MC2_LL	12143	int16	64		yes					local sensor, mode cleaner 2, lower-left
H2	::	SUS - SENSOR_MC2_LR	12144	int16	64		yes					local sensor, mode cleaner 2, lower-right
H2	::	SUS - SENSOR_MC2_S	12145	int16	64		yes					local sensor, mode cleaner 2, side
H2	::	SUS - SENSOR_MC3_UL	12146	int16	64		yes					local sensor, mode cleaner 3, upper-left
H2	::	SUS - SENSOR_MC3_UR	12147	int16	64		yes					local sensor, mode cleaner 3, upper-right
H2	::	SUS - SENSOR_MC3_LL	12148	int16	64		yes					local sensor, mode cleaner 3, lower-left
H2	::	SUS - SENSOR_MC3_LR	12149	int16	64		yes					local sensor, mode cleaner 3, lower-right
H2	::	SUS - SENSOR_MC3_S	12150	int16	64		yes					local sensor, mode cleaner 3, side
H2	::	SUS - SENSOR_FM1_UL	12151	int16	64		yes					local sensor, folding mirror 1, upper-left
H2	::	SUS - SENSOR_FM1_UR	12152	int16	64		yes					local sensor, folding mirror 1, upper-right
H2	::	SUS - SENSOR_FM1_LL	12153	int16	64		yes					local sensor, folding mirror 1, lower-left
H2	::	SUS - SENSOR_FM1_LR	12154	int16	64		yes					local sensor, folding mirror 1, lower-right
H2	::	SUS - SENSOR_FM1_S	12155	int16	64		yes					local sensor, folding mirror 1, side
H2	::	SUS - SENSOR_FM2_UL	12156	int16	64		yes					local sensor, folding mirror 2, upper-left
H2	::	SUS - SENSOR_FM2_UR	12157	int16	64		yes					local sensor, folding mirror 2, upper-right
H2	::	SUS - SENSOR_FM2_LL	12158	int16	64		yes					local sensor, folding mirror 2, lower-left
H2	::	SUS - SENSOR_FM2_LR	12159	int16	64		yes					local sensor, folding mirror 2, lower-right
H2	::	SUS - SENSOR_FM2_S	12160	int16	64		yes					local sensor, folding mirror 2, side
H2	::	SUS - SENSOR_MMT1_UL	12161	int16	64		yes					local sensor, mode matching 1, upper-left
H2	::	SUS - SENSOR_MMT1_UR	12162	int16	64		yes					local sensor, mode matching 1, upper-right
H2	::	SUS - SENSOR_MMT1_LL	12163	int16	64		yes					local sensor, mode matching 1, lower-left
H2	::	SUS - SENSOR_MMT1_LR	12164	int16	64		yes					local sensor, mode matching 1, lower-right
H2	::	SUS - SENSOR_MMT1_S	12165	int16	64		yes					local sensor, mode matching 1, side
H2	::	SUS - SENSOR_MMT2_UL	12166	int16	64		yes					local sensor, mode matching 2, upper-left
H2	::	SUS - SENSOR_MMT2_UR	12167	int16	64		yes					local sensor, mode matching 2, upper-right
H2	::	SUS - SENSOR_MMT2_LL	12168	int16	64		yes					local sensor, mode matching 2, lower-left
H2	::	SUS - SENSOR_MMT2_LR	12169	int16	64		yes					local sensor, mode matching 2, lower-right
H2	::	SUS - SENSOR_MMT2_S	12170	int16	64		yes					local sensor, mode matching 2, side
H2	::	SUS - SENSOR_MMT3_UL	12171	int16	64		yes					local sensor, mode matching 3, upper-left

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: SUS	- SENSOR_MMT3_UR	12172	int16	64		yes					local sensor, mode matching 3, upper-right
H2	:: SUS	- SENSOR_MMT3_LL	12173	int16	64		yes					local sensor, mode matching 3, lower-left
H2	:: SUS	- SENSOR_MMT3_LR	12174	int16	64		yes					local sensor, mode matching 3, lower-right
H2	:: SUS	- SENSOR_MMT3_S	12175	int16	64		yes					local sensor, mode matching 3, side



Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: IOO	- MODECLEANER	13000	int16	16384		yes					mode cleaner length sensor, I-phase
H2	:: IOO	- MODECLEANER_Q	13001	int16	16384		yes					mode cleaner length sensor, Q-phase
H2	:: IOO	- LENGTH_MODECLEANER	13002	int16	256		yes					control signal for mode cleaner length
H2	:: IOO	- LASER_FREQUENCY_MC	13003	int16	16384		yes					control signal for laser frequency
H2	:: IOO	- TEST_OUT1	13004	int16	16384		yes					servo test signal after error signal summing junction
H2	:: IOO	- TEST_OUT2	13005	int16	16384		yes					servo test signal before feedback split MC/laser
H2	:: IOO	- MODECLEANER_DC	13006	int16	1	EPICS	yes					mode cleaner length sensor, DC signal
H2	:: IOO	- LS_TEMP_MC	13007	int16	1	EPICS	yes					photodiode temperature, mode cleaner
H2	:: IOO	- WFS_MC1_R_I	13008	int16	2048		no					MC wavefront sensor 1, right segment, I-phase
H2	:: IOO	- WFS_MC1_T_I	13009	int16	2048		no					MC wavefront sensor 1, top segment, I-phase
H2	:: IOO	- WFS_MC1_L_I	13010	int16	2048		no					MC wavefront sensor 1, left segment, I-phase
H2	:: IOO	- WFS_MC1_B_I	13011	int16	2048		no					MC wavefront sensor 1, bottom segment, I-phase
H2	:: IOO	- WFS_MC1_R_Q	13012	int16	2048		no					MC wavefront sensor 1, right segment, Q-phase
H2	:: IOO	- WFS_MC1_T_Q	13013	int16	2048		no					MC wavefront sensor 1, top segment, Q-phase
H2	:: IOO	- WFS_MC1_L_Q	13014	int16	2048		no					MC wavefront sensor 1, left segment, Q-phase
H2	:: IOO	- WFS_MC1_B_Q	13015	int16	2048		no					MC wavefront sensor 1, bottom segment, Q-phase
H2	:: IOO	- WFS_MC1_R_DC	13016	int16	16		yes					MC wavefront sensor 1, right segment, DC signal
H2	:: IOO	- WFS_MC1_T_DC	13017	int16	16		yes					MC wavefront sensor 1, top segment, DC signal
H2	:: IOO	- WFS_MC1_L_DC	13018	int16	16		yes					MC wavefront sensor 1, left segment, DC signal
H2	:: IOO	- WFS_MC1_B_DC	13019	int16	16		yes					MC wavefront sensor 1, bottom segment, DC signal
H2	:: IOO	- WFS_MC2_R_I	13020	int16	2048		no					MC wavefront sensor 2, right segment, I-phase
H2	:: IOO	- WFS_MC2_T_I	13021	int16	2048		no					MC wavefront sensor 2, top segment, I-phase
H2	:: IOO	- WFS_MC2_L_I	13022	int16	2048		no					MC wavefront sensor 2, left segment, I-phase
H2	:: IOO	- WFS_MC2_B_I	13023	int16	2048		no					MC wavefront sensor 2, bottom segment, I-phase
H2	:: IOO	- WFS_MC2_R_Q	13024	int16	2048		no					MC wavefront sensor 2, right segment, Q-phase
H2	:: IOO	- WFS_MC2_T_Q	13025	int16	2048		no					MC wavefront sensor 2, top segment, Q-phase
H2	:: IOO	- WFS_MC2_L_Q	13026	int16	2048		no					MC wavefront sensor 2, left segment, Q-phase
H2	:: IOO	- WFS_MC2_B_Q	13027	int16	2048		no					MC wavefront sensor 2, bottom segment, Q-phase
H2	:: IOO	- WFS_MC2_R_DC	13028	int16	16		yes					MC wavefront sensor 2, right segment, DC signal
H2	:: IOO	- WFS_MC2_T_DC	13029	int16	16		yes					MC wavefront sensor 2, top segment, DC signal
H2	:: IOO	- WFS_MC2_L_DC	13030	int16	16		yes					MC wavefront sensor 2, left segment, DC signal
H2	:: IOO	- WFS_MC2_B_DC	13031	int16	16		yes					MC wavefront sensor 2, bottom segment, DC signal
H2	:: IOO	- MISALIGN_MC1_YAW	13032	real	2048		yes					yaw misalignment angle, differential mode cleaner
H2	:: IOO	- MISALIGN_MC1_PITCH	13033	real	2048		yes					pitch misalignment angle, differential mode cleaner
H2	:: IOO	- MISALIGN_MC2_YAW	13034	real	2048		yes					yaw misalignment angle, common mode cleaner
H2	:: IOO	- MISALIGN_MC2_PITCH	13035	real	2048		yes					pitch misalignment angle, common mode cleaner
H2	:: IOO	- ANGLE_MC_IB_YAW	13036	int16	2048		yes					control signal for yaw angle of MC input beam
H2	:: IOO	- ANGLE_MC_IB_PITCH	13037	int16	2048		yes					control signal for pitch angle of MC input beam
H2	:: IOO	- SHIFT_MC_IB_HOR	13038	int16	2048		yes					control signal for horizontal shift of MC input beam
H2	:: IOO	- SHIFT_MC_IB_VER	13039	int16	2048		yes					control signal for vertical shift of MC input beam
H2	:: IOO	- WFS_MM1_D_I	13040	int16	256		no					mode matching sensor 1, disk, I-phase
H2	:: IOO	- WFS_MM1_R1_I	13041	int16	256		no					mode matching sensor 1, ring segment 1, I-phase
H2	:: IOO	- WFS_MM1_R2_I	13042	int16	256		no					mode matching sensor 1, ring segment 2, I-phase

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: IOO	- WFS_MM1_R3_I	13043	int16	256		no					mode matching sensor 1, ring segment 3, I-phase
H2	:: IOO	- WFS_MM1_D_Q	13044	int16	256		no					mode matching sensor 1, disk, Q-phase
H2	:: IOO	- WFS_MM1_R1_Q	13045	int16	256		no					mode matching sensor 1, ring segment 1, Q-phase
H2	:: IOO	- WFS_MM1_R2_Q	13046	int16	256		no					mode matching sensor 1, ring segment 2, Q-phase
H2	:: IOO	- WFS_MM1_R3_Q	13047	int16	256		no					mode matching sensor 1, ring segment 3, Q-phase
H2	:: IOO	- WFS_MM1_D_DC	13048	int16	16		no					mode matching sensor 1, disk, DC signal
H2	:: IOO	- WFS_MM1_R1_DC	13049	int16	16		no					mode matching sensor 1, ring segment 1, DC signal
H2	:: IOO	- WFS_MM1_R2_DC	13050	int16	16		no					mode matching sensor 1, ring segment 2, DC signal
H2	:: IOO	- WFS_MM1_R3_DC	13051	int16	16		no					mode matching sensor 1, ring segment 3, DC signal
H2	:: IOO	- WFS_MM2_D_I	13052	int16	256		no					mode matching sensor 2, disk, I-phase
H2	:: IOO	- WFS_MM2_R1_I	13053	int16	256		no					mode matching sensor 2, ring segment 1, I-phase
H2	:: IOO	- WFS_MM2_R2_I	13054	int16	256		no					mode matching sensor 2, ring segment 2, I-phase
H2	:: IOO	- WFS_MM2_R3_I	13055	int16	256		no					mode matching sensor 2, ring segment 3, I-phase
H2	:: IOO	- WFS_MM2_D_Q	13056	int16	256		no					mode matching sensor 2, disk, Q-phase
H2	:: IOO	- WFS_MM2_R1_Q	13057	int16	256		no					mode matching sensor 2, ring segment 1, Q-phase
H2	:: IOO	- WFS_MM2_R2_Q	13058	int16	256		no					mode matching sensor 2, ring segment 2, Q-phase
H2	:: IOO	- WFS_MM2_R3_Q	13059	int16	256		no					mode matching sensor 2, ring segment 3, Q-phase
H2	:: IOO	- WFS_MM2_D_DC	13060	int16	16		no					mode matching sensor 2, disk, DC signal
H2	:: IOO	- WFS_MM2_R1_DC	13061	int16	16		no					mode matching sensor 2, ring segment 1, DC signal
H2	:: IOO	- WFS_MM2_R2_DC	13062	int16	16		no					mode matching sensor 2, ring segment 2, DC signal
H2	:: IOO	- WFS_MM2_R3_DC	13063	int16	16		no					mode matching sensor 2, ring segment 3, DC signal
H2	:: IOO	- MODECLEANER_I_OFS	13064	int16	16384		no				yes	stimulus for mode cleaner length error signal
H2	:: IOO	- LENGTH_MODECLEANER_OFS	13065	int16	16384		no				yes	stimulus for control signal for mode cleaner length
H2	:: IOO	- TEST_IN1	13066	int16	256		no				yes	stimulus after servo feedback split: MC path
H2	:: IOO	- TEST_IN2	13067	int16	16384		no				yes	stimulus after servo feedback split: laser path
H2	:: IOO	- MISALIGN_MC1_YAW_OFS	13068	real	2048	TP	no				yes	stimulus for yaw misalignment angle, differential MC
H2	:: IOO	- MISALIGN_MC1_PITCH_OFS	13069	real	2048	TP	no				yes	stimulus for pitch misalignment angle, differential MC
H2	:: IOO	- MISALIGN_MC2_YAW_OFS	13070	real	2048	TP	no				yes	stimulus for yaw misalignment angle, common MC
H2	:: IOO	- MISALIGN_MC2_PITCH_OFS	13071	real	2048	TP	no				yes	stimulus for pitch misalignment angle, common MC
H2	:: IOO	- ANGLE_MC_IB_YAW_OFS	13072	real	2048	TP	no				yes	control signal stimulus for yaw angle of MC input beam
H2	:: IOO	- ANGLE_MC_IB_PITCH_OFS	13073	real	2048	TP	no				yes	control signal stimulus for pitch angle of MC input beam
H2	:: IOO	- SHIFT_MC_IB_HOR_OFS	13074	real	2048	TP	no				yes	control signal stimulus for horiz. shift of MC input beam
H2	:: IOO	- SHIFT_MC_IB_VER_OFS	13075	real	2048	TP	no				yes	control signal stimulus for vert. shift of MC input beam
H2	:: IOO	- LENGTH_MMT1_OFS	13076	int16	256		no				yes	stimulus for MMT1 position
H2	:: IOO	- LENGTH_MMT2_OFS	13077	int16	256		no				yes	stimulus for MMT2 position
H2	:: IOO	- LENGTH_MMT3_OFS	13078	int16	256		no				yes	stimulus for MMT3 position

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	::	PSL - REFCAV_I	14000	int16	16384		yes					reference cavity, I-phase
H2	::	PSL - REFCAV_DC	14001	int16	16		yes					reference cavity, DC signal
H2	::	PSL - REFCAV_TRANS	14002	int16	16		yes					reference cavity, transmitted signal
H2	::	PSL - LASER_FREQUENCY_EOM	14003	int16	16384		yes					control signal for frequency stabilization, electro-opt.
H2	::	PSL - LASER_FREQUENCY_FAST	14004	int16	16384		yes					control signal for frequency stabilization, fast PZT
H2	::	PSL - LASER_FREQUENCY_SLOW	14005	int16	256		yes					control signal for frequency stabilization, slow PZT
H2	::	PSL - LASER_FREQUENCY_AOM	14006	int16	16384		yes					control signal for frequency stabilization, acousto-opt.
H2	::	PSL - LASER_POWER	14007	int16	16384		yes					laser power monitor
H2	::	PSL - PMC_I	14008	int16	16384		yes					pre-mode cleaner, I-phase
H2	::	PSL - PMC_DC	14009	int16	16		yes					pre-mode cleaner, DC signal
H2	::	PSL - PMC_TRANS	14010	int16	16		yes					pre-mode cleaner, transmitted signal
H2	::	PSL - LASER_POWER_RAW	14011	int16	16384		yes					raw laser power going to IOO
H2	::	PSL - LASER_FREQUENCY_AOM_OFS	14012	int16	16384		no				yes	stimulus for laser frequency offset, AOM
H2	::	PSL - LASER_POWER_OFS	14013	int16	16384		no				yes	stimulus for laser power modulation

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: SEI	- COARSE_ITMX_UX	15000	int16	16		yes					coarse actuator position, ITM X, UX
H2	:: SEI	- COARSE_ITMX_UY	15001	int16	16		yes					coarse actuator position, ITM X, UY
H2	:: SEI	- COARSE_ITMX_UZ	15002	int16	16		yes					coarse actuator position, ITM X, UZ
H2	:: SEI	- COARSE_ITMX_RZ	15003	int16	16		yes					coarse actuator orientation, ITM X, RZ
H2	:: SEI	- COARSE_ITMY_UX	15004	int16	16		yes					coarse actuator position, ITM Y, UX
H2	:: SEI	- COARSE_ITMY_UY	15005	int16	16		yes					coarse actuator position, ITM Y, UY
H2	:: SEI	- COARSE_ITMY_UZ	15006	int16	16		yes					coarse actuator position, ITM Y, UZ
H2	:: SEI	- COARSE_ITMY_RZ	15007	int16	16		yes					coarse actuator orientation, ITM Y, RZ
H2	:: SEI	- COARSE_ETMX_UX	15008	int16	16		yes					coarse actuator position, ETM X, UX
H2	:: SEI	- COARSE_ETMX_UY	15009	int16	16		yes					coarse actuator position, ETM X, UY
H2	:: SEI	- COARSE_ETMX_UZ	15010	int16	16		yes					coarse actuator position, ETM X, UZ
H2	:: SEI	- COARSE_ETMX_RZ	15011	int16	16		yes					coarse actuator orientation, ETM X, RZ
H2	:: SEI	- COARSE_ETMY_UX	15012	int16	16		yes					coarse actuator position, ETM Y, UX
H2	:: SEI	- COARSE_ETMY_UY	15013	int16	16		yes					coarse actuator position, ETM Y, UY
H2	:: SEI	- COARSE_ETMY_UZ	15014	int16	16		yes					coarse actuator position, ETM Y, UZ
H2	:: SEI	- COARSE_ETMY_RZ	15015	int16	16		yes					coarse actuator orientation, ETM Y, RZ
H2	:: SEI	- COARSE_RM_UX	15016	int16	16		yes					coarse actuator position, RM, UX
H2	:: SEI	- COARSE_RM_UY	15017	int16	16		yes					coarse actuator position, RM, UY
H2	:: SEI	- COARSE_RM_UZ	15018	int16	16		yes					coarse actuator position, RM, UZ
H2	:: SEI	- COARSE_RM_RZ	15019	int16	16		yes					coarse actuator orientation, RM, RZ
H2	:: SEI	- COARSE_BS_UX	15020	int16	16		yes					coarse actuator position, BS, UX
H2	:: SEI	- COARSE_BS_UY	15021	int16	16		yes					coarse actuator position, BS, UY
H2	:: SEI	- COARSE_BS_UZ	15022	int16	16		yes					coarse actuator position, BS, UZ
H2	:: SEI	- COARSE_BS_RZ	15023	int16	16		yes					coarse actuator orientation, BS, RZ
H2	:: SEI	- COARSE_IN1_UX	15024	int16	16		yes					coarse actuator position, 1st input HAM, UX
H2	:: SEI	- COARSE_IN1_UY	15025	int16	16		yes					coarse actuator position, 1st input HAM, UY
H2	:: SEI	- COARSE_IN1_UZ	15026	int16	16		yes					coarse actuator position, 1st input HAM, UZ
H2	:: SEI	- COARSE_IN1_RZ	15027	int16	16		yes					coarse actuator orientation, 1st input HAM, RZ
H2	:: SEI	- COARSE_IN2_UX	15028	int16	16		yes					coarse actuator position, 2nd input HAM, UX
H2	:: SEI	- COARSE_IN2_UY	15029	int16	16		yes					coarse actuator position, 2nd input HAM, UY
H2	:: SEI	- COARSE_IN2_UZ	15030	int16	16		yes					coarse actuator position, 2nd input HAM, UZ
H2	:: SEI	- COARSE_IN2_RZ	15031	int16	16		yes					coarse actuator orientation, 2nd input HAM, RZ
H2	:: SEI	- COARSE_OUT1_UX	15032	int16	16		yes					coarse actuator position, 1st output HAM, UX
H2	:: SEI	- COARSE_OUT1_UY	15033	int16	16		yes					coarse actuator position, 1st output HAM, UY
H2	:: SEI	- COARSE_OUT1_UZ	15034	int16	16		yes					coarse actuator position, 1st output HAM, UZ
H2	:: SEI	- COARSE_OUT1_RZ	15035	int16	16		yes					coarse actuator orientation, 1st output HAM, RZ
H2	:: SEI	- COARSE_OUT2_UX	15036	int16	16		yes					coarse actuator position, 2nd output HAM, UX
H2	:: SEI	- COARSE_OUT2_UY	15037	int16	16		yes					coarse actuator position, 2nd output HAM, UY
H2	:: SEI	- COARSE_OUT2_UZ	15038	int16	16		yes					coarse actuator position, 2nd output HAM, UZ
H2	:: SEI	- COARSE_OUT2_RZ	15039	int16	16		yes					coarse actuator orientation, 2nd output HAM, RZ
H2	:: SEI	- COARSE_OUT3_UX	15040	int16	16		no					coarse actuator position, 3rd output HAM, UX
H2	:: SEI	- COARSE_OUT3_UY	15041	int16	16		no					coarse actuator position, 3rd output HAM, UY
H2	:: SEI	- COARSE_OUT3_UZ	15042	int16	16		no					coarse actuator position, 3rd output HAM, UZ

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
H2	:: SEI	- COARSE_OUT3_RZ	15043	int16	16		no					coarse actuator orientation, 3rd output HAM, RZ
H2	:: SEI	- FINE_ITMX_UX	15044	int16	16		yes					fine actuator position, ITM X, UX
H2	:: SEI	- FINE_ITMY_UX	15045	int16	16		yes					fine actuator position, ITM Y, UX
H2	:: SEI	- FINE_ETMX_UX	15046	int16	16		yes					fine actuator position, ETM X, UX
H2	:: SEI	- FINE_ETMY_UX	15047	int16	16		yes					fine actuator position, ETM Y, UX

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
HPM ::	PEM -	SEIS_C_X	20000	int16	256		yes					corner station seismometer, x direction
HPM ::	PEM -	SEIS_C_Y	20001	int16	256		yes					corner station seismometer, y direction
HPM ::	PEM -	SEIS_C_Z	20002	int16	256		yes					corner station seismometer, z direction
HPM ::	PEM -	SEIS_Ea_X	20003	int16	256		yes					end station 'a' seismometer, x direction
HPM ::	PEM -	SEIS_Ea_Y	20004	int16	256		yes					end station 'a' seismometer, y direction
HPM ::	PEM -	SEIS_Ea_Z	20005	int16	256		yes					end station 'a' seismometer, z direction
HPM ::	PEM -	SEIS_Eb_X	20006	int16	256		yes					end station 'b' seismometer, x direction
HPM ::	PEM -	SEIS_Eb_Y	20007	int16	256		yes					end station 'b' seismometer, y direction
HPM ::	PEM -	SEIS_Eb_Z	20008	int16	256		yes					end station 'b' seismometer, z direction
HPM ::	PEM -	SEIS_Ma_X	20009	int16	256		yes					mid station 'a' seismometer, x direction
HPM ::	PEM -	SEIS_Ma_Y	20010	int16	256		yes					mid station 'a' seismometer, y direction
HPM ::	PEM -	SEIS_Ma_Z	20011	int16	256		yes					mid station 'a' seismometer, z direction
HPM ::	PEM -	SEIS_Mb_X	20012	int16	256		yes					mid station 'b' seismometer, x direction
HPM ::	PEM -	SEIS_Mb_Y	20013	int16	256		yes					mid station 'b' seismometer, y direction
HPM ::	PEM -	SEIS_Mb_Z	20014	int16	256		yes					mid station 'b' seismometer, z direction
HPM ::	PEM -	TILT_C_X	20015	int16	256		yes					corner station tiltmeter, about x
HPM ::	PEM -	TILT_C_Y	20016	int16	256		yes					corner station tiltmeter, about y
HPM ::	PEM -	TILT_Ea_X	20017	int16	256		yes					end station 'a' tiltmeter, about x
HPM ::	PEM -	TILT_Ea_Y	20018	int16	256		yes					end station 'a' tiltmeter, about y
HPM ::	PEM -	TILT_Eb_X	20019	int16	256		yes					end station 'b' tiltmeter, about x
HPM ::	PEM -	TILT_Eb_Y	20020	int16	256		yes					end station 'b' tiltmeter, about y
HPM ::	PEM -	TILT_Ma_X	20021	int16	256		yes					mid station 'a' tiltmeter, about x
HPM ::	PEM -	TILT_Ma_Y	20022	int16	256		yes					mid station 'a' tiltmeter, about y
HPM ::	PEM -	TILT_Mb_X	20023	int16	256		yes					mid station 'b' tiltmeter, about x
HPM ::	PEM -	TILT_Mb_Y	20024	int16	256		yes					mid station 'b' tiltmeter, about y
HPM ::	PEM -	ACC_BSC1_1X	20025	int16	2048		yes					accelerometer signal, BSC1, triaxial unit 1, x
HPM ::	PEM -	ACC_BSC1_1Y	20026	int16	2048		yes					accelerometer signal, BSC1, triaxial unit 1, y
HPM ::	PEM -	ACC_BSC1_1Z	20027	int16	2048		yes					accelerometer signal, BSC1, triaxial unit 1, z
HPM ::	PEM -	ACC_BSC1_2X	20028	int16	2048		yes					accelerometer signal, BSC1, triaxial unit 2, x
HPM ::	PEM -	ACC_BSC1_2Y	20029	int16	2048		yes					accelerometer signal, BSC1, triaxial unit 2, y
HPM ::	PEM -	ACC_BSC1_2Z	20030	int16	2048		yes					accelerometer signal, BSC1, triaxial unit 2, z
HPM ::	PEM -	ACC_BSC3_1X	20031	int16	2048		yes					accelerometer signal, BSC3, triaxial unit 1, x
HPM ::	PEM -	ACC_BSC3_1Y	20032	int16	2048		yes					accelerometer signal, BSC3, triaxial unit 1, y
HPM ::	PEM -	ACC_BSC3_1Z	20033	int16	2048		yes					accelerometer signal, BSC3, triaxial unit 1, z
HPM ::	PEM -	ACC_BSC3_2X	20034	int16	2048		yes					accelerometer signal, BSC3, triaxial unit 2, x
HPM ::	PEM -	ACC_BSC3_2Y	20035	int16	2048		yes					accelerometer signal, BSC3, triaxial unit 2, y
HPM ::	PEM -	ACC_BSC3_2Z	20036	int16	2048		yes					accelerometer signal, BSC3, triaxial unit 2, z
HPM ::	PEM -	ACC_BSC9_1X	20037	int16	2048		yes					accelerometer signal, BSC9, triaxial unit 1, x
HPM ::	PEM -	ACC_BSC9_1Y	20038	int16	2048		yes					accelerometer signal, BSC9, triaxial unit 1, y
HPM ::	PEM -	ACC_BSC9_1Z	20039	int16	2048		yes					accelerometer signal, BSC9, triaxial unit 1, z
HPM ::	PEM -	ACC_BSC9_2X	20040	int16	2048		yes					accelerometer signal, BSC9, triaxial unit 2, x
HPM ::	PEM -	ACC_BSC9_2Y	20041	int16	2048		yes					accelerometer signal, BSC9, triaxial unit 2, y
HPM ::	PEM -	ACC_BSC9_2Z	20042	int16	2048		yes					accelerometer signal, BSC9, triaxial unit 2, z

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
HPM	::	PEM - ACC_BSC10_1X	20043	int16	2048		yes					accelerometer signal, BSC10, triaxial unit 1, x
HPM	::	PEM - ACC_BSC10_1Y	20044	int16	2048		yes					accelerometer signal, BSC10, triaxial unit 1, y
HPM	::	PEM - ACC_BSC10_1Z	20045	int16	2048		yes					accelerometer signal, BSC10, triaxial unit 1, z
HPM	::	PEM - ACC_BSC10_2X	20046	int16	2048		yes					accelerometer signal, BSC10, triaxial unit 2, x
HPM	::	PEM - ACC_BSC10_2Y	20047	int16	2048		yes					accelerometer signal, BSC10, triaxial unit 2, y
HPM	::	PEM - ACC_BSC10_2Z	20048	int16	2048		yes					accelerometer signal, BSC10, triaxial unit 2, z
HPM	::	PEM - ACC_BSC2_X	20049	int16	2048		yes					accelerometer signal, BSC2, x
HPM	::	PEM - ACC_BSC2_Y	20050	int16	2048		yes					accelerometer signal, BSC2, y
HPM	::	PEM - ACC_BSC2_Z	20051	int16	2048		yes					accelerometer signal, BSC2, z
HPM	::	PEM - ACC_HAM1_X	20052	int16	2048		yes					accelerometer signal, HAM1, x
HPM	::	PEM - ACC_HAM1_Y	20053	int16	2048		yes					accelerometer signal, HAM1, y
HPM	::	PEM - ACC_HAM1_Z	20054	int16	2048		yes					accelerometer signal, HAM1, z
HPM	::	PEM - ACC_HAM2_X	20055	int16	2048		yes					accelerometer signal, HAM2, x
HPM	::	PEM - ACC_HAM2_Y	20056	int16	2048		yes					accelerometer signal, HAM2, y
HPM	::	PEM - ACC_HAM2_Z	20057	int16	2048		yes					accelerometer signal, HAM2, z
HPM	::	PEM - ACC_HAM3_X	20058	int16	2048		yes					accelerometer signal, HAM3, x
HPM	::	PEM - ACC_HAM3_Y	20059	int16	2048		yes					accelerometer signal, HAM3, y
HPM	::	PEM - ACC_HAM3_Z	20060	int16	2048		yes					accelerometer signal, HAM3, z
HPM	::	PEM - ACC_HAM4_X	20061	int16	2048		yes					accelerometer signal, HAM4, x
HPM	::	PEM - ACC_HAM4_Y	20062	int16	2048		yes					accelerometer signal, HAM4, y
HPM	::	PEM - ACC_HAM4_Z	20063	int16	2048		yes					accelerometer signal, HAM4, z
HPM	::	PEM - ACC_HAM5_X	20064	int16	2048		yes					accelerometer signal, HAM5, x
HPM	::	PEM - ACC_HAM5_Y	20065	int16	2048		yes					accelerometer signal, HAM5, y
HPM	::	PEM - ACC_HAM5_Z	20066	int16	2048		yes					accelerometer signal, HAM5, z
HPM	::	PEM - ACC_HAM6_X	20067	int16	2048		yes					accelerometer signal, HAM6, x
HPM	::	PEM - ACC_HAM6_Y	20068	int16	2048		yes					accelerometer signal, HAM6, y
HPM	::	PEM - ACC_HAM6_Z	20069	int16	2048		yes					accelerometer signal, HAM6, z
HPM	::	PEM - ACC_PSL_X	20070	int16	2048		yes					accelerometer signal, PSL, x
HPM	::	PEM - ACC_PSL_Y	20071	int16	2048		yes					accelerometer signal, PSL, y
HPM	::	PEM - ACC_PSL_Z	20072	int16	2048		yes					accelerometer signal, PSL, z
HPM	::	PEM - ACC_BSC4_X	20073	int16	2048		yes					accelerometer signal, BSC4, x
HPM	::	PEM - ACC_BSC4_Y	20074	int16	2048		yes					accelerometer signal, BSC4, y
HPM	::	PEM - ACC_BSC4_Z	20075	int16	2048		yes					accelerometer signal, BSC4, z
HPM	::	PEM - ACC_BSC5_X	20076	int16	2048		yes					accelerometer signal, BSC5, x
HPM	::	PEM - ACC_BSC5_Y	20077	int16	2048		yes					accelerometer signal, BSC5, y
HPM		PEM - ACC_BSC5_Z	20078	int16	2048		yes					accelerometer signal, BSC5, z
HPM	::	PEM - ACC_BSC6_X	20079	int16	2048		yes					accelerometer signal, BSC6, x
HPM	::	PEM - ACC_BSC6_Y	20080	int16	2048		yes					accelerometer signal, BSC6, y
HPM	::	PEM - ACC_BSC6_Z	20081	int16	2048		yes					accelerometer signal, BSC6, z
HPM	::	PEM - ACC_BSC7_X	20082	int16	2048		yes					accelerometer signal, BSC7, x
HPM	::	PEM - ACC_BSC7_Y	20083	int16	2048		yes					accelerometer signal, BSC7, y
HPM	::	PEM - ACC_BSC7_Z	20084	int16	2048		yes					accelerometer signal, BSC7, z
HPM	::	PEM - ACC_BSC8_X	20085	int16	2048		yes					accelerometer signal, BSC8, x

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
HPM	::	PEM - ACC_BSC8_Y	20086	int16	2048		yes					accelerometer signal, BSC8, y
HPM	::	PEM - ACC_BSC8_Z	20087	int16	2048		yes					accelerometer signal, BSC8, z
HPM	::	PEM - ACC_HAM7_X	20088	int16	2048		yes					accelerometer signal, HAM7, x
HPM	::	PEM - ACC_HAM7_Y	20089	int16	2048		yes					accelerometer signal, HAM7, y
HPM	::	PEM - ACC_HAM7_Z	20090	int16	2048		yes					accelerometer signal, HAM7, z
HPM	::	PEM - ACC_HAM8_X	20091	int16	2048		yes					accelerometer signal, HAM8, x
HPM	::	PEM - ACC_HAM8_Y	20092	int16	2048		yes					accelerometer signal, HAM8, y
HPM	::	PEM - ACC_HAM8_Z	20093	int16	2048		yes					accelerometer signal, HAM8, z
HPM	::	PEM - ACC_HAM9_X	20094	int16	2048		yes					accelerometer signal, HAM9, x
HPM	::	PEM - ACC_HAM9_Y	20095	int16	2048		yes					accelerometer signal, HAM9, y
HPM	::	PEM - ACC_HAM9_Z	20096	int16	2048		yes					accelerometer signal, HAM9, z
HPM	::	PEM - ACC_HAM10_X	20097	int16	2048		yes					accelerometer signal, HAM10, x
HPM	::	PEM - ACC_HAM10_Y	20098	int16	2048		yes					accelerometer signal, HAM10, y
HPM	::	PEM - ACC_HAM10_Z	20099	int16	2048		yes					accelerometer signal, HAM10, z
HPM	::	PEM - ACC_HAM11_X	20100	int16	2048		yes					accelerometer signal, HAM11, x
HPM	::	PEM - ACC_HAM11_Y	20101	int16	2048		yes					accelerometer signal, HAM11, y
HPM	::	PEM - ACC_HAM11_Z	20102	int16	2048		yes					accelerometer signal, HAM11, z
HPM	::	PEM - ACC_HAM12_X	20103	int16	2048		yes					accelerometer signal, HAM12, x
HPM	::	PEM - ACC_HAM12_Y	20104	int16	2048		yes					accelerometer signal, HAM12, y
HPM	::	PEM - ACC_HAM12_Z	20105	int16	2048		yes					accelerometer signal, HAM12, z
HPM	::	PEM - ACC_PSL2_X	20106	int16	2048		yes					accelerometer signal, PSL,2km,x
HPM	::	PEM - ACC_PSL2_Y	20107	int16	2048		yes					accelerometer signal, PSL,2km,y
HPM	::	PEM - ACC_PSL2_Z	20108	int16	2048		yes					accelerometer signal, PSL,2km,z
HPM	::	PEM - ACC_BT_1X	20109	int16	2048		yes					accel. sig.,beam tube,triaxial unit 1,x
HPM	::	PEM - ACC_BT_1Y	20110	int16	2048		yes					accel. sig.,beam tube,triaxial unit 1,y
HPM	::	PEM - ACC_BT_1Z	20111	int16	2048		yes					accel. sig.,beam tube,triaxial unit 1,z
HPM	::	PEM - ACC_BT_2X	20112	int16	2048		yes					accel. sig.,beam tube,triaxial unit 2,x
HPM	::	PEM - ACC_BT_2Y	20113	int16	2048		yes					accel. sig.,beam tube,triaxial unit 2,y
HPM	::	PEM - ACC_BT_2Z	20114	int16	2048		yes					accel. sig.,beam tube,triaxial unit 2,z
HPM	::	PEM - ACC_BT_3X	20115	int16	2048		yes					accel. sig.,beam tube,triaxial unit 3,x
HPM	::	PEM - ACC_BT_3Y	20116	int16	2048		yes					accel. sig.,beam tube,triaxial unit 3,y
HPM	::	PEM - ACC_BT_3Z	20117	int16	2048		yes					accel. sig.,beam tube,triaxial unit 3,z
HPM	::	PEM - ACC_BT_4X	20118	int16	2048		yes					accel. sig.,beam tube,triaxial unit 4,x
HPM	::	PEM - ACC_BT_4Y	20119	int16	2048		yes					accel. sig.,beam tube,triaxial unit 4,y
HPM	::	PEM - ACC_BT_4Z	20120	int16	2048		yes					accel. sig.,beam tube,triaxial unit 4,z
HPM	::	PEM - ACC_BT_5X	20121	int16	2048		yes					accel. sig.,beam tube,triaxial unit 5,x
HPM	::	PEM - ACC_BT_5Y	20122	int16	2048		yes					accel. sig.,beam tube,triaxial unit 5,y
HPM	::	PEM - ACC_BT_5Z	20123	int16	2048		yes					accel. sig.,beam tube,triaxial unit 5,z
HPM	::	PEM - MIC_BSC1	20124	int16	2048		yes					microphone, BSC1
HPM	::	PEM - MIC_BSC2	20125	int16	2048		yes					microphone, BSC2
HPM	::	PEM - MIC_BSC3	20126	int16	2048		yes					microphone, BSC3
HPM	::	PEM - MIC_BSC9	20127	int16	2048		yes					microphone, BSC9
HPM	::	PEM - MIC_BSC10	20128	int16	2048		yes					microphone, BSC10



Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag. stim.	Description
Sys.	Sub.	Name					full	analy.	trend			
HPM	:: PEM	- MIC_HAM1	20129	int16	2048		yes					microphone, HAM1
HPM	:: PEM	- MIC_HAM2	20130	int16	2048		yes					microphone, HAM2
HPM	:: PEM	- MIC_HAM3	20131	int16	2048		yes					microphone, HAM3
HPM	:: PEM	- MIC_HAM4	20132	int16	2048		yes					microphone, HAM4
HPM	:: PEM	- MIC_HAM5	20133	int16	2048		yes					microphone, HAM5
HPM	:: PEM	- MIC_HAM6	20134	int16	2048		yes					microphone, HAM6
HPM	:: PEM	- MIC_PSL	20135	int16	2048		yes					microphone, PSL table
HPM	:: PEM	- MIC_BSC4	20136	int16	2048		yes					microphone, BSC4
HPM	:: PEM	- MIC_BSC5	20137	int16	2048		yes					microphone, BSC5
HPM	:: PEM	- MIC_BSC6	20138	int16	2048		yes					microphone, BSC6
HPM	:: PEM	- MIC_BSC7	20139	int16	2048		yes					microphone, BSC7
HPM	:: PEM	- MIC_BSC8	20140	int16	2048		yes					microphone, BSC8
HPM	:: PEM	- MIC_HAM7	20141	int16	2048		yes					microphone, HAM7
HPM	:: PEM	- MIC_HAM8	20142	int16	2048		yes					microphone, HAM8
HPM	:: PEM	- MIC_HAM9	20143	int16	2048		yes					microphone, HAM9
HPM	:: PEM	- MIC_HAM10	20144	int16	2048		yes					microphone, HAM10
HPM	:: PEM	- MIC_HAM11	20145	int16	2048		yes					microphone, HAM11
HPM	:: PEM	- MIC_HAM12	20146	int16	2048		yes					microphone, HAM12
HPM	:: PEM	- MIC_PSL	20147	int16	2048		yes					microphone, PSL table,2km ifo
HPM	:: PEM	- MIC_BT1	20148	int16	2048		yes					microphone, beam tube, unit 1
HPM	:: PEM	- MIC_BT2	20149	int16	2048		yes					microphone, beam tube, unit 2
HPM	:: PEM	- MIC_BT3	20150	int16	2048		yes					microphone, beam tube, unit 3
HPM	:: PEM	- MIC_BT4	20151	int16	2048		yes					microphone, beam tube, unit 4
HPM	:: PEM	- MIC_BT5	20152	int16	2048		yes					microphone, beam tube, unit 5
HPM	:: PEM	- MAG_BSC1_X	20153	int16	2048		yes					magnetometer, BSC1, x direction
HPM	:: PEM	- MAG_BSC1_Y	20154	int16	2048		yes					magnetometer, BSC1, y direction
HPM	:: PEM	- MAG_BSC1_Z	20155	int16	2048		yes					magnetometer, BSC1, z direction
HPM	:: PEM	- MAG_BSC2_X	20156	int16	2048		yes					magnetometer, BSC2, x direction
HPM	:: PEM	- MAG_BSC2_Y	20157	int16	2048		yes					magnetometer, BSC2, y direction
HPM	:: PEM	- MAG_BSC2_Z	20158	int16	2048		yes					magnetometer, BSC2, z direction
HPM	:: PEM	- MAG_BSC3_X	20159	int16	2048		yes					magnetometer, BSC3, x direction
HPM	:: PEM	- MAG_BSC3_Y	20160	int16	2048		yes					magnetometer, BSC3, y direction
HPM	:: PEM	- MAG_BSC3_Z	20161	int16	2048		yes					magnetometer, BSC3, z direction
HPM	:: PEM	- MAG_BSC9_X	20162	int16	2048		yes					magnetometer, BSC9, x direction
HPM	:: PEM	- MAG_BSC9_Y	20163	int16	2048		yes					magnetometer, BSC9, y direction
HPM	:: PEM	- MAG_BSC9_Z	20164	int16	2048		yes					magnetometer, BSC9, z direction
HPM	:: PEM	- MAG_BSC10_X	20165	int16	2048		yes					magnetometer, BSC10, x direction
HPM	:: PEM	- MAG_BSC10_Y	20166	int16	2048		yes					magnetometer, BSC10, y direction
HPM	:: PEM	- MAG_BSC10_Z	20167	int16	2048		yes					magnetometer, BSC10, z direction
HPM	:: PEM	- MAG_HAM3_X	20168	int16	2048		yes					magnetometer, HAM3, x direction
HPM	:: PEM	- MAG_HAM3_Y	20169	int16	2048		yes					magnetometer, HAM3, y direction
HPM	:: PEM	- MAG_HAM3_Z	20170	int16	2048		yes					magnetometer, HAM3, z direction
HPM	:: PEM	- MAG_C_X	20171	int16	2048		yes					magnetometer, site, x direction

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
HPM	::	PEM - MAG_C_Y	20172	int16	2048		yes					magnetometer, site, y direction
HPM	::	PEM - MAG_C_Z	20173	int16	2048		yes					magnetometer, site, z direction
HPM	::	PEM - RFR_1	20174	int16	16384		yes					RF receiver, channel 1
HPM	::	PEM - RFR_2	20175	int16	16384		yes					RF receiver, channel 2
HPM	::	PEM - RFR_3	20176	int16	16384		yes					RF receiver, channel 3
HPM	::	PEM - RFR_4	20177	int16	16384		yes					RF receiver, channel 4
HPM	::	PEM - NB_RFR_1	20178	int16	16384		yes					narrow band RF receiver, 4km ifo
HPM	::	PEM - NB_RFR_2	20179	int16	16384		yes					narrow band RF receiver, 2km ifo
HPM	::	PEM - CPD_1	20180	int16	1 EPICS		yes					charged particle detector, unit 1
HPM	::	PEM - CPD_2	20181	int16	1 EPICS		yes					charged particle detector, unit 2
HPM	::	PEM - CPD_3	20182	int16	1 EPICS		yes					charged particle detector, unit 3
HPM	::	PEM - CPD_4	20183	int16	1 EPICS		yes					charged particle detector, unit 4
HPM	::	PEM - CPD_5	20184	int16	1 EPICS		yes					charged particle detector, unit 5
HPM	::	PEM - CPD_6	20185	int16	1 EPICS		yes					charged particle detector, unit 6
HPM	::	PEM - CPD_7	20186	int16	1 EPICS		yes					charged particle detector, unit 7
HPM	::	PEM - CPD_8	20187	int16	1 EPICS		yes					charged particle detector, unit 8
HPM	::	PEM - TEMP_C1	20188	int16	1 EPICS		yes					temperature sensor, corner station NE
HPM	::	PEM - TEMP_C2	20189	int16	1 EPICS		yes					temperature sensor, corner station SE
HPM	::	PEM - TEMP_C3	20190	int16	1 EPICS		yes					temperature sensor, corner station SW
HPM	::	PEM - TEMP_C4	20191	int16	1 EPICS		yes					temperature sensor, corner station NW
HPM	::	PEM - TEMP_EX1	20192	int16	1 EPICS		yes					temperature sensor, X end station NE
HPM	::	PEM - TEMP_EX2	20193	int16	1 EPICS		yes					temperature sensor, X end station SE
HPM	::	PEM - TEMP_EX3	20194	int16	1 EPICS		yes					temperature sensor, X end station SW
HPM	::	PEM - TEMP_EX4	20195	int16	1 EPICS		yes					temperature sensor, X end station NW
HPM	::	PEM - TEMP_EY1	20196	int16	1 EPICS		yes					temperature sensor, Y end station NE
HPM	::	PEM - TEMP_EY2	20197	int16	1 EPICS		yes					temperature sensor, Y end station SE
HPM	::	PEM - TEMP_EY3	20198	int16	1 EPICS		yes					temperature sensor, Y end station SW
HPM	::	PEM - TEMP_EY4	20199	int16	1 EPICS		yes					temperature sensor, Y end station NW
HPM	::	PEM - TEMP_MX1	20200	int16	1 EPICS		yes					temperature sensor, X mid station NE
HPM	::	PEM - TEMP_MX2	20201	int16	1 EPICS		yes					temperature sensor, X mid station SE
HPM	::	PEM - TEMP_MX3	20202	int16	1 EPICS		yes					temperature sensor, X mid station SW
HPM	::	PEM - TEMP_MX4	20203	int16	1 EPICS		yes					temperature sensor, X mid station NW
HPM	::	PEM - TEMP_MY1	20204	int16	1 EPICS		yes					temperature sensor, Y mid station NE
HPM	::	PEM - TEMP_MY2	20205	int16	1 EPICS		yes					temperature sensor, X mid station NE
HPM	::	PEM - TEMP_MY3	20206	int16	1 EPICS		yes					temperature sensor, X mid station SE
HPM	::	PEM - TEMP_MY4	20207	int16	1 EPICS		yes					temperature sensor, X mid station SW
HPM	::	PEM - TEMP_BT1	20208	int16	1 EPICS		yes					temperature sensor, beam tube, unit 1
HPM	::	PEM - TEMP_BT2	20209	int16	1 EPICS		yes					temperature sensor, beam tube, unit 2
HPM	::	PEM - TEMP_BT3	20210	int16	1 EPICS		yes					temperature sensor, beam tube, unit 3
HPM	::	PEM - TEMP_BT4	20211	int16	1 EPICS		yes					temperature sensor, beam tube, unit 4
HPM	::	PEM - TEMP_BT5	20212	int16	1 EPICS		yes					temperature sensor, beam tube, unit 5
HPM	::	PEM - RH_BT1	20213	int16	1 EPICS		yes					humidity sensor, beam tube, unit 1
HPM	::	PEM - RH_BT2	20214	int16	1 EPICS		yes					humidity sensor, beam tube, unit 2

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
HPM ::	PEM -	RH_BT3	20215	int16	1	EPICS	yes					humidity sensor, beam tube, unit 3
HPM ::	PEM -	RH_BT4	20216	int16	1	EPICS	yes					humidity sensor, beam tube, unit 4
HPM ::	PEM -	RH_BT5	20217	int16	1	EPICS	yes					humidity sensor, beam tube, unit 5
HPM ::	PEM -	TEMP_IN_C	20218	int16	1	EPICS	yes					weather monitor, inside temperature, corner station
HPM ::	PEM -	TEMP_OUT_C	20219	int16	1	EPICS	yes					weather monitor, outside temperature, corner station
HPM ::	PEM -	RH_IN_C	20220	int16	1	EPICS	yes					weather monitor, inside humidity, corner station
HPM ::	PEM -	RH_OUT_C	20221	int16	1	EPICS	yes					weather monitor, outside humidity, corner station
HPM ::	PEM -	WIND_DIR_C	20222	int16	1	EPICS	yes					weather monitor, wind direction, corner station
HPM ::	PEM -	WIND_SPEED_C	20223	int16	1	EPICS	yes					weather monitor, wind speed, corner station
HPM ::	PEM -	PRESSURE_C	20224	int16	1	EPICS	yes					weather monitor, baromteric pressure, corner station
HPM ::	PEM -	RAIN_C	20225	int16	1	EPICS	yes					weather monitor, rain fall, corner station
HPM ::	PEM -	TEMP_IN_EX	20226	int16	1	EPICS	yes					weather monitor, inside temperature, X end station
HPM ::	PEM -	TEMP_OUT_EX	20227	int16	1	EPICS	yes					weather monitor, outside temperature, X end station
HPM ::	PEM -	RH_IN_EX	20228	int16	1	EPICS	yes					weather monitor, inside humidity, X end station
HPM ::	PEM -	RH_OUT_EX	20229	int16	1	EPICS	yes					weather monitor, outside humidity, X end station
HPM ::	PEM -	WIND_DIR_EX	20230	int16	1	EPICS	yes					weather monitor, wind direction, X end station
HPM ::	PEM -	WIND_SPEED_EX	20231	int16	1	EPICS	yes					weather monitor, wind speed, X end station
HPM ::	PEM -	PRESSURE_EX	20232	int16	1	EPICS	yes					weather monitor, baromteric pressure, X end station
HPM ::	PEM -	RAIN_EX	20233	int16	1	EPICS	yes					weather monitor, rain fall, X end station
HPM ::	PEM -	TEMP_IN_EY	20234	int16	1	EPICS	yes					weather monitor, inside temperature, Y end station
HPM ::	PEM -	TEMP_OUT_EY	20235	int16	1	EPICS	yes					weather monitor, outside temperature, Y end station
HPM ::	PEM -	RH_IN_EY	20236	int16	1	EPICS	yes					weather monitor, inside humidity, Y end station
HPM ::	PEM -	RH_OUT_EY	20237	int16	1	EPICS	yes					weather monitor, outside humidity, Y end station
HPM ::	PEM -	WIND_DIR_EY	20238	int16	1	EPICS	yes					weather monitor, wind direction, Y end station
HPM ::	PEM -	WIND_SPEED_EY	20239	int16	1	EPICS	yes					weather monitor, wind speed, Y end station
HPM ::	PEM -	PRESSURE_EY	20240	int16	1	EPICS	yes					weather monitor, baromteric pressure, Y end station
HPM ::	PEM -	RAIN_EY	20241	int16	1	EPICS	yes					weather monitor, rain fall, Y end station
HPM ::	PEM -	TEMP_IN_MX	20242	int16	1	EPICS	yes					weather monitor, inside temperature, X mid station
HPM ::	PEM -	TEMP_OUT_MX	20243	int16	1	EPICS	yes					weather monitor, outside temperature, X mid station
HPM ::	PEM -	RH_IN_MX	20244	int16	1	EPICS	yes					weather monitor, inside humidity, X mid station
HPM ::	PEM -	RH_OUT_MX	20245	int16	1	EPICS	yes					weather monitor, outside humidity, X mid station
HPM ::	PEM -	WIND_DIR_MX	20246	int16	1	EPICS	yes					weather monitor, wind direction, X mid station
HPM ::	PEM -	WIND_SPEED_MX	20247	int16	1	EPICS	yes					weather monitor, wind speed, X mid station
HPM ::	PEM -	PRESSURE_MX	20248	int16	1	EPICS	yes					weather monitor, baromteric pressure, X mid station
HPM ::	PEM -	RAIN_MX	20249	int16	1	EPICS	yes					weather monitor, rain fall, X mid station
HPM ::	PEM -	TEMP_IN_MY	20250	int16	1	EPICS	yes					weather monitor, inside temperature, Y mid station
HPM ::	PEM -	TEMP_OUT_MY	20251	int16	1	EPICS	yes					weather monitor, outside temperature, Y mid station
HPM ::	PEM -	RH_IN_MY	20252	int16	1	EPICS	yes					weather monitor, inside humidity, Y mid station
HPM ::	PEM -	RH_OUT_MY	20253	int16	1	EPICS	yes					weather monitor, outside humidity, Y mid station
HPM ::	PEM -	WIND_DIR_MY	20254	int16	1	EPICS	yes					weather monitor, wind direction, Y mid station
HPM ::	PEM -	WIND_SPEED_MY	20255	int16	1	EPICS	yes					weather monitor, wind speed, Y mid station
HPM ::	PEM -	PRESSURE_MY	20256	int16	1	EPICS	yes					weather monitor, baromteric pressure, Y mid station
HPM ::	PEM -	RAIN_MY	20257	int16	1	EPICS	yes					weather monitor, rain fall, Y mid station

Channel List			ID	Fmt	Rate	DCU	Frame	FFT	Diag.	Description	
Sys.	Sub.	Name					full	analy.	trend	stim.	
HPM	:: PEM	- DUST_C1	20258	int16	1	EPICS	yes				dust particle monitor, corner station
HPM	:: PEM	- DUST_C2	20259	int16	1	EPICS	yes				dust particle monitor, corner station
HPM	:: PEM	- DUST_C3	20260	int16	1	EPICS	yes				dust particle monitor, corner station, optics lab
HPM	:: PEM	- DUST_C4	20261	int16	1	EPICS	yes				dust particle monitor, corner station, vacuum prep
HPM	:: PEM	- DUST_C5	20262	int16	1	EPICS	yes				dust particle monitor, corner station, clean room 1
HPM	:: PEM	- DUST_C6	20263	int16	1	EPICS	yes				dust particle monitor, corner station, clean room 2
HPM	:: PEM	- DUST_C7	20264	int16	1	EPICS	yes				dust particle monitor, corner station, clean room 3
HPM	:: PEM	- DUST_C8	20265	int16	1	EPICS	yes				dust particle monitor, corner station, PSL 4K
HPM	:: PEM	- DUST_C9	20266	int16	1	EPICS	yes				dust particle monitor, corner station, PSL 2K
HPM	:: PEM	- DUST_EX1	20267	int16	1	EPICS	yes				dust particle monitor, X end station
HPM	:: PEM	- DUST_EX2	20268	int16	1	EPICS	yes				dust particle monitor, X end station, optics lab
HPM	:: PEM	- DUST_EX3	20269	int16	1	EPICS	yes				dust particle monitor, X end station, clean room
HPM	:: PEM	- DUST_EY1	20270	int16	1	EPICS	yes				dust particle monitor, Y end station
HPM	:: PEM	- DUST_EY2	20271	int16	1	EPICS	yes				dust particle monitor, Y end station, optics lab
HPM	:: PEM	- DUST_EY2	20272	int16	1	EPICS	yes				dust particle monitor, Y end station, clean room
HPM	:: PEM	- DUST_MX1	20273	int16	1	EPICS	yes				dust particle monitor, X mid station
HPM	:: PEM	- DUST_MX2	20274	int16	1	EPICS	yes				dust particle monitor, X mid station, optics lab
HPM	:: PEM	- DUST_MX2	20275	int16	1	EPICS	yes				dust particle monitor, X mid station, clean room
HPM	:: PEM	- DUST_MY1	20276	int16	1	EPICS	yes				dust particle monitor, Y mid station
HPM	:: PEM	- DUST_MY2	20277	int16	1	EPICS	yes				dust particle monitor, Y mid station, optics lab
HPM	:: PEM	- DUST_MY2	20278	int16	1	EPICS	yes				dust particle monitor, Y mid station, clean room
HPM	:: PEM	- MIC_CART_1	20279	int16	2048		yes				PEM cart microphone, unit 1
HPM	:: PEM	- MIC_CART_2	20280	int16	2048		yes				PEM cart microphone, unit 2
HPM	:: PEM	- MAG_CART_X	20281	int16	2048		yes				PEM cart magnetometer, x directio
HPM	:: PEM	- MAG_CART_Y	20282	int16	2048		yes				PEM cart magnetometer, y direction
HPM	:: PEM	- MAG_CART_Z	20283	int16	2048		yes				PEM cart magnetometer, z direction
HPM	:: PEM	- TEMP_CART1	20284	int16	1	EPICS	yes				temperature sensor, cart, unit 1
HPM	:: PEM	- TEMP_CART2	20285	int16	1	EPICS	yes				temperature sensor, cart, unit 2
HPM	:: PEM	- TEMP_CART3	20286	int16	1	EPICS	yes				temperature sensor, cart, unit 3
HPM	:: PEM	- TEMP_CART4	20287	int16	1	EPICS	yes				temperature sensor, cart, unit 4
HPM	:: PEM	- TEMP_CART5	20288	int16	1	EPICS	yes				temperature sensor, cart, unit 5
HPM	:: PEM	- RH_CART1	20289	int16	1	EPICS	yes				humidity sensor, cart, unit 1
HPM	:: PEM	- RH_CART2	20290	int16	1	EPICS	yes				humidity sensor, cart, unit 2
HPM	:: PEM	- RH_CART3	20291	int16	1	EPICS	yes				humidity sensor, cart, unit 3
HPM	:: PEM	- RH_CART4	20292	int16	1	EPICS	yes				humidity sensor, cart, unit 4
HPM	:: PEM	- RH_CART5	20293	int16	1	EPICS	yes				humidity sensor, cart, unit 5
HPM	:: PEM	- SEI_STIM_PZT1	20294	int16	512		no			yes	PZT seismic excitation, ch 1
HPM	:: PEM	- SEI_STIM_PZT2	20295	int16	512		no			yes	PZT seismic excitation, ch 2
HPM	:: PEM	- SEI_STIM_PZT3	20296	int16	512		no			yes	PZT seismic excitation, ch 3
HPM	:: PEM	- SEI_STIM_PZT4	20297	int16	512		no			yes	PZT seismic excitation, ch 4
HPM	:: PEM	- SEI_STIM_PZT5	20298	int16	512		no			yes	PZT seismic excitation, ch 5
HPM	:: PEM	- SEI_STIM_PZT6	20299	int16	512		no			yes	PZT seismic excitation, ch 6
HPM	:: PEM	- SEI_STIM_PZT7	20300	int16	512		no			yes	PZT seismic excitation, ch 7

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag. stim.	Description
Sys.	Sub.	Name					full	analy.	trend			
HPM ::	PEM -	SEI_STIM_PZT8	20301	int16	512		no				yes	PZT seismic excitation, ch 8
HPM ::	PEM -	SEI_STIM_PZT9	20302	int16	512		no				yes	PZT seismic excitation, ch 9
HPM ::	PEM -	SEI_STIM_PZT10	20303	int16	512		no				yes	PZT seismic excitation, ch 10
HPM ::	PEM -	SEI_STIM_PZT11	20304	int16	512		no				yes	PZT seismic excitation, ch 11
HPM ::	PEM -	SEI_STIM_PZT12	20305	int16	512		no				yes	PZT seismic excitation, ch 12
HPM ::	PEM -	SEI_STIM_EM1	20306	int16	2048		no				yes	electro-mag. seismic excitation, ch 1
HPM ::	PEM -	SEI_STIM_EM2	20307	int16	2048		no				yes	electro-mag. seismic excitation, ch 2
HPM ::	PEM -	SEI_STIM_EM3	20308	int16	2048		no				yes	electro-mag. seismic excitation, ch 3
HPM ::	PEM -	SEI_STIM_EM4	20309	int16	2048		no				yes	electro-mag. seismic excitation, ch 4
HPM ::	PEM -	ACOU_STIM2	20310	int16	16384		no				yes	acoustic noise generator stimulus, unit 2
HPM ::	PEM -	MAG_STIM_SM	20311	int16	2048		no				yes	magnetic field generator stim., small coil
HPM ::	PEM -	MAG_STIM_LG	20312	int16	2048		no				yes	magnetic field generator stim., large coil

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	::	LSC - GW	30000	real	16384		yes					reconstructed gravitational strain readout, L-
L1	::	LSC - COMMONARM	30001	real	16384		yes					reconstructed reflection signal, L+
L1	::	LSC - MICHELSON	30002	real	16384		yes					reconstructed pick-off signal, I-
L1	::	LSC - RECYCLING	30003	real	16384		yes					reconstructed pick-off signal, I+
L1	::	LSC - ANTISYMM_I	30004	real	16384		yes					reconstructed antisymmetric port signal, I-phase
L1	::	LSC - REFLECTION_Q	30005	real	16384		yes					reconstructed reflection signal, Q-phase
L1	::	LSC - ANTISYMM1_I	30006	int16	2048		yes					antisymmetric port, diode 1, I-phase
L1	::	LSC - ANTISYMM1_Q	30007	int16	2048		yes					antisymmetric port, diode 1, Q-phase
L1	::	LSC - ANTISYMM2_I	30008	int16	2048		yes					antisymmetric port, diode 2, I-phase
L1	::	LSC - ANTISYMM2_Q	30009	int16	2048		yes					antisymmetric port, diode 2, Q-phase
L1	::	LSC - ANTYSYMM3_I	30010	int16	2048		yes					antisymmetric port, diode 3, I-phase
L1	::	LSC - ANTYSYMM3_Q	30011	int16	2048		yes					antisymmetric port, diode 3, Q-phase
L1	::	LSC - ANTYSYMM4_I	30012	int16	2048		yes					antisymmetric port, diode 4, I-phase
L1	::	LSC - ANTYSYMM4_Q	30013	int16	2048		yes					antisymmetric port, diode 4, Q-phase
L1	::	LSC - ANTYSYMM5_I	30014	int16	2048		yes					antisymmetric port, diode 5, I-phase
L1	::	LSC - ANTYSYMM5_Q	30015	int16	2048		yes					antisymmetric port, diode 5, Q-phase
L1	::	LSC - ANTYSYMM6_I	30016	int16	2048		yes					antisymmetric port, diode 6, I-phase
L1	::	LSC - ANTYSYMM6_Q	30017	int16	2048		yes					antisymmetric port, diode 6, Q-phase
L1	::	LSC - REFLECTION1_I	30018	int16	2048		yes					reflection port, diode 1, I-phase
L1	::	LSC - REFLECTION1_Q	30019	int16	2048		yes					reflection port, diode 1, Q-phase
L1	::	LSC - REFLECTION2_I	30020	int16	2048		yes					reflection port, diode 2, I-phase
L1	::	LSC - REFLECTION2_Q	30021	int16	2048		yes					reflection port, diode 2, Q-phase
L1	::	LSC - PICKOFFX1_Q	30022	int16	2048		yes					RC pick-off at ITM X, diode 1, Q-phase
L1	::	LSC - PICKOFFX1_I	30023	int16	2048		yes					RC pick-off at ITM X, diode 1, I-phase
L1	::	LSC - PICKOFFY1_Q	30024	int16	2048		yes					RC pick-off at ITM Y, diode 2, Q-phase
L1	::	LSC - PICKOFFY1_I	30025	int16	2048		yes					RC pick-off at ITM Y, diode 2, I-phase
L1	::	LSC - LENGTH_ARM_DIFF	30026	int16	16384		yes					control signal for differential arm length
L1	::	LSC - LENGTH_ARM_COMMON	30027	int16	2048		yes					control signal for common arm length
L1	::	LSC - LENGTH_MICHELSON	30028	int16	2048		yes					control signal for Michelson length
L1	::	LSC - LENGTH_RECYCLING	30029	int16	2048		yes					control signal for recycling cavity length
L1	::	LSC - LASER_FREQUENCY	30030	int16	16384		yes					control signal for laser frequency
L1	::	LSC - LASER_FREQUENCY_TIDE	30031	int16	256		yes					control signal for laser frequency (tidal)
L1	::	LSC - ANTISYMM1_DC	30032	int16	1	EPICS	yes					antisymmetric port, diode 1, DC signal
L1	::	LSC - ANTISYMM2_DC	30033	int16	1	EPICS	yes					antisymmetric port, diode 2, DC signal
L1	::	LSC - ANTISYMM3_DC	30034	int16	1	EPICS	yes					antisymmetric port, diode 3, DC signal
L1	::	LSC - ANTISYMM4_DC	30035	int16	1	EPICS	yes					antisymmetric port, diode 4, DC signal
L1	::	LSC - ANTISYMM5_DC	30036	int16	1	EPICS	yes					antisymmetric port, diode 5, DC signal
L1	::	LSC - ANTISYMM6_DC	30037	int16	1	EPICS	yes					antisymmetric port, diode 6, DC signal
L1	::	LSC - REFLECTION1_DC	30038	int16	1	EPICS	yes					reflection port, diode 1, DC signal
L1	::	LSC - REFLECTION2_DC	30039	int16	1	EPICS	yes					reflection port, diode 2, DC signal
L1	::	LSC - PICKOFFX1_DC	30040	int16	1	EPICS	yes					RC pick-off at ITM X, diode 1, DC signal
L1	::	LSC - PICKOFFY1_DC	30041	int16	1	EPICS	yes					RC pick-off at ITM Y, diode 1, DC signal
L1	::	LSC - POWER_ANTISYMM	30042	int16	16384		yes					beam intensity at the antisymmetric port

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	::	LSC - POWER_REFLECTION	30043	int16	16384		yes					beam intensity in reflection
L1	::	LSC - POWER_PICKOFF	30044	int16	16384		yes					beam intensity inside the recycling cavity
L1	::	LSC - POWER_ARMX	30045	int16	16384		yes					beam intensity in transmission of ETM X
L1	::	LSC - POWER_ARMY	30046	int16	16384		yes					beam intensity in transmission of ETM Y
L1	::	LSC - CALIBRATION_ETMX	30047	int16	16384		yes					photon calibrator photodiode, ETM X
L1	::	LSC - CALIBRATION_ETMY	30048	int16	16384		yes					photon calibrator photodiode, ETM Y
L1	::	LSC - LS_TEMP_ANTISYMM1	30049	int16		1 EPICS	yes					photodiode temperature, antisymmetric port, unit 1
L1	::	LSC - LS_TEMP_ANTISYMM2	30050	int16		1 EPICS	yes					photodiode temperature, antisymmetric port, unit 2
L1	::	LSC - LS_TEMP_ANTISYMM3	30051	int16		1 EPICS	yes					photodiode temperature, antisymmetric port, unit 3
L1	::	LSC - LS_TEMP_ANTISYMM4	30052	int16		1 EPICS	yes					photodiode temperature, antisymmetric port, unit 4
L1	::	LSC - LS_TEMP_ANTISYMM5	30053	int16		1 EPICS	yes					photodiode temperature, antisymmetric port, unit 5
L1	::	LSC - LS_TEMP_ANTISYMM6	30054	int16		1 EPICS	yes					photodiode temperature, antisymmetric port, unit 6
L1	::	LSC - LS_TEMP_REFLECTION1	30055	int16		1 EPICS	yes					photodiode temperature, reflection port, unit 1
L1	::	LSC - LS_TEMP_REFLECTION2	30056	int16		1 EPICS	yes					photodiode temperature, reflection port, unit 2
L1	::	LSC - LS_TEMP_REFLECTION3	30057	int16		1 EPICS	yes					photodiode temperature, reflection port, unit 3
L1	::	LSC - LS_TEMP_REFLECTION4	30058	int16		1 EPICS	yes					photodiode temperature, reflection port, unit 4
L1	::	LSC - LS_TEMP_PICKOFFX1	30059	int16		1 EPICS	yes					photodiode temperature, pick-off port at ITM X, unit 1
L1	::	LSC - LS_TEMP_PICKOFFY1	30060	int16		1 EPICS	yes					photodiode temperature, pick-off port at ITM Y, unit 2
L1	::	LSC - FREQUENCY_SB	30061	real		1 EPICS	yes					modulation frequency of res. sidebands
L1	::	LSC - FREQUENCY_NRSB	30062	real		1 EPICS	yes					modulation frequency of non-res. sidebands
L1	::	LSC - FREQUENCY_MC	30063	real		1 EPICS	yes					modulation frequency of mode cleaner sidebands
L1	::	LSC - MODULATION_SB	30064	int16	16384		yes					modulation depth of res. sidebands
L1	::	LSC - MODULATION_SB_SOL	30065	int16		1 EPICS	yes					sol value of modulation depth of res. sidebands
L1	::	LSC - MODULATION_NRSB_SOL	30066	int16		1 EPICS	yes					value of modulation depth of non-res. sidebands
L1	::	LSC - MODULATION_MC_SOL	30067	int16		1 EPICS	yes					value of modulation depth of mode cleaner sidebands
L1	::	LSC - RECYCLING_OFS	30068	real	16384	TP	no				yes	stimulus of RC pick-off, I-phase, I+
L1	::	LSC - LENGTH_ARM_DIFF_OFS	30069	real	16384	TP	no				yes	control signal stimulus for differential arm length
L1	::	LSC - LENGTH_ARM_COMMON_OFS	30070	real	2048	TP	no				yes	control signal stimulus for common arm length
L1	::	LSC - LENGTH_MICHELSON_OFS	30071	real	2048	TP	no				yes	control signal stimulus for Michelson length
L1	::	LSC - LENGTH_RECYCLING_OFS	30072	real	2048	TP	no				yes	control signal stimulus for recycling cavity length
L1	::	LSC - LASER_FREQUENCY_OFS	30073	real	16384	TP	no				yes	control signal stimulus for laser frequency
L1	::	LSC - LASER_FREQUENCY_TIDE_OFS	30074	real	256	TP	no				yes	control signal stimulus for laser frequency (tidal)
L1	::	LSC - CALIBRATION_ETMX_LASER	30075	int16	16384		no				yes	photon calibrator laser stimulus, ETM X
L1	::	LSC - CALIBRATION_ETMY_LASER	30076	int16	16384		no				yes	photon calibrator laser stimulus, ETM Y
L1	::	LSC - LF_MODULATION_SB	30077	int16	16384		no				yes	RF source modulation signal, res. sidebands
L1	::	LSC - LF_MODULATION_NRSB	30078	int16	16384		no				yes	RF source modulation signal, non-res. sidebands
L1	::	LSC - LF_MODULATION_MC	30079	int16	16384		no				yes	RF source modulation signal, mode cleaner sidebands

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	:: ASC	- WFS1_R_I	31000	int16	2048		no					wavefront sensor 1, right segment, I-phase
L1	:: ASC	- WFS1_T_I	31001	int16	2048		no					wavefront sensor 1, top segment, I-phase
L1	:: ASC	- WFS1_L_I	31002	int16	2048		no					wavefront sensor 1, left segment, I-phase
L1	:: ASC	- WFS1_B_I	31003	int16	2048		no					wavefront sensor 1, bottom segment, I-phase
L1	:: ASC	- WFS1_R_Q	31004	int16	2048		no					wavefront sensor 1, right segment, Q-phase
L1	:: ASC	- WFS1_T_Q	31005	int16	2048		no					wavefront sensor 1, top segment, Q-phase
L1	:: ASC	- WFS1_L_Q	31006	int16	2048		no					wavefront sensor 1, left segment, Q-phase
L1	:: ASC	- WFS1_B_Q	31007	int16	2048		no					wavefront sensor 1, bottom segment, Q-phase
L1	:: ASC	- WFS1_R_DC	31008	int16	16		yes					wavefront sensor 1, right segment, DC signal
L1	:: ASC	- WFS1_T_DC	31009	int16	16		yes					wavefront sensor 1, top segment, DC signal
L1	:: ASC	- WFS1_L_DC	31010	int16	16		yes					wavefront sensor 1, left segment, DC signal
L1	:: ASC	- WFS1_B_DC	31011	int16	16		yes					wavefront sensor 1, bottom segment, DC signal
L1	:: ASC	- WFS2_R_I	31012	int16	2048		no					wavefront sensor 2, right segment, I-phase
L1	:: ASC	- WFS2_T_I	31013	int16	2048		no					wavefront sensor 2, top segment, I-phase
L1	:: ASC	- WFS2_L_I	31014	int16	2048		no					wavefront sensor 2, left segment, I-phase
L1	:: ASC	- WFS2_B_I	31015	int16	2048		no					wavefront sensor 2, bottom segment, I-phase
L1	:: ASC	- WFS2_R_Q	31016	int16	2048		no					wavefront sensor 2, right segment, Q-phase
L1	:: ASC	- WFS2_T_Q	31017	int16	2048		no					wavefront sensor 2, top segment, Q-phase
L1	:: ASC	- WFS2_L_Q	31018	int16	2048		no					wavefront sensor 2, left segment, Q-phase
L1	:: ASC	- WFS2_B_Q	31019	int16	2048		no					wavefront sensor 2, bottom segment, Q-phase
L1	:: ASC	- WFS2_R_DC	31020	int16	16		yes					wavefront sensor 2, right segment, DC signal
L1	:: ASC	- WFS2_T_DC	31021	int16	16		yes					wavefront sensor 2, top segment, DC signal
L1	:: ASC	- WFS2_L_DC	31022	int16	16		yes					wavefront sensor 2, left segment, DC signal
L1	:: ASC	- WFS2_B_DC	31023	int16	16		yes					wavefront sensor 2, bottom segment, DC signal
L1	:: ASC	- WFS3_R_I	31024	int16	2048		no					wavefront sensor 3, right segment, I-phase
L1	:: ASC	- WFS3_T_I	31025	int16	2048		no					wavefront sensor 3, top segment, I-phase
L1	:: ASC	- WFS3_L_I	31026	int16	2048		no					wavefront sensor 3, left segment, I-phase
L1	:: ASC	- WFS3_B_I	31027	int16	2048		no					wavefront sensor 3, bottom segment, I-phase
L1	:: ASC	- WFS3_R_Q	31028	int16	2048		no					wavefront sensor 3, right segment, Q-phase
L1	:: ASC	- WFS3_T_Q	31029	int16	2048		no					wavefront sensor 3, top segment, Q-phase
L1	:: ASC	- WFS3_L_Q	31030	int16	2048		no					wavefront sensor 3, left segment, Q-phase
L1	:: ASC	- WFS3_B_Q	31031	int16	2048		no					wavefront sensor 3, bottom segment, Q-phase
L1	:: ASC	- WFS3_R_DC	31032	int16	16		yes					wavefront sensor 3, right segment, DC signal
L1	:: ASC	- WFS3_T_DC	31033	int16	16		yes					wavefront sensor 3, top segment, DC signal
L1	:: ASC	- WFS3_L_DC	31034	int16	16		yes					wavefront sensor 3, left segment, DC signal
L1	:: ASC	- WFS3_B_DC	31035	int16	16		yes					wavefront sensor 3, bottom segment, DC signal
L1	:: ASC	- WFS4_R_I	31036	int16	2048		no					wavefront sensor 4, right segment, I-phase
L1	:: ASC	- WFS4_T_I	31037	int16	2048		no					wavefront sensor 4, top segment, I-phase
L1	:: ASC	- WFS4_L_I	31038	int16	2048		no					wavefront sensor 4, left segment, I-phase
L1	:: ASC	- WFS4_B_I	31039	int16	2048		no					wavefront sensor 4, bottom segment, I-phase
L1	:: ASC	- WFS4_R_Q	31040	int16	2048		no					wavefront sensor 4, right segment, Q-phase
L1	:: ASC	- WFS4_T_Q	31041	int16	2048		no					wavefront sensor 4, top segment, Q-phase
L1	:: ASC	- WFS4_L_Q	31042	int16	2048		no					wavefront sensor 4, left segment, Q-phase



Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	::	ASC - WFS4_B_Q	31043	int16	2048		no					wavefront sensor 4, bottom segment, Q-phase
L1	::	ASC - WFS4_R_DC	31044	int16	16		yes					wavefront sensor 4, right segment, DC signal
L1	::	ASC - WFS4_T_DC	31045	int16	16		yes					wavefront sensor 4, top segment, DC signal
L1	::	ASC - WFS4_L_DC	31046	int16	16		yes					wavefront sensor 4, left segment, DC signal
L1	::	ASC - WFS4_B_DC	31047	int16	16		yes					wavefront sensor 4, bottom segment, DC signal
L1	::	ASC - WFS5_R_I	31048	int16	2048		no					wavefront sensor 5, right segment, I-phase
L1	::	ASC - WFS5_T_I	31049	int16	2048		no					wavefront sensor 5, top segment, I-phase
L1	::	ASC - WFS5_L_I	31050	int16	2048		no					wavefront sensor 5, left segment, I-phase
L1	::	ASC - WFS5_B_I	31051	int16	2048		no					wavefront sensor 5, bottom segment, I-phase
L1	::	ASC - WFS5_R_Q	31052	int16	2048		no					wavefront sensor 5, right segment, Q-phase
L1	::	ASC - WFS5_T_Q	31053	int16	2048		no					wavefront sensor 5, top segment, Q-phase
L1	::	ASC - WFS5_L_Q	31054	int16	2048		no					wavefront sensor 5, left segment, Q-phase
L1	::	ASC - WFS5_B_Q	31055	int16	2048		no					wavefront sensor 5, bottom segment, Q-phase
L1	::	ASC - WFS5_R_DC	31056	int16	16		yes					wavefront sensor 5, right segment, DC signal
L1	::	ASC - WFS5_T_DC	31057	int16	16		yes					wavefront sensor 5, top segment, DC signal
L1	::	ASC - WFS5_L_DC	31058	int16	16		yes					wavefront sensor 5, left segment, DC signal
L1	::	ASC - WFS5_B_DC	31059	int16	16		yes					wavefront sensor 5, bottom segment, DC signal
L1	::	ASC - WFS1_LO_PHASE	31060	int16	1	EPICS	yes					wavefront sensor 1, local oscillator phase
L1	::	ASC - WFS2_LO_PHASE	31061	int16	1	EPICS	yes					wavefront sensor 2, local oscillator phase
L1	::	ASC - WFS3_LO_PHASE	31062	int16	1	EPICS	yes					wavefront sensor 3, local oscillator phase
L1	::	ASC - WFS4_LO_PHASE	31063	int16	1	EPICS	yes					wavefront sensor 4, local oscillator phase
L1	::	ASC - WFS5_LO_PHASE	31064	int16	1	EPICS	yes					wavefront sensor 5, local oscillator phase
L1	::	ASC - WFS1_GAIN	31065	int16	1	EPICS	yes					wavefront sensor 1, rf gain setting
L1	::	ASC - WFS2_GAIN	31066	int16	1	EPICS	yes					wavefront sensor 2, rf gain setting
L1	::	ASC - WFS3_GAIN	31067	int16	1	EPICS	yes					wavefront sensor 3, rf gain setting
L1	::	ASC - WFS4_GAIN	31068	int16	1	EPICS	yes					wavefront sensor 4, rf gain setting
L1	::	ASC - WFS5_GAIN	31069	int16	1	EPICS	yes					wavefront sensor 5, rf gain setting
L1	::	ASC - QPDX_R	31070	int16	2048		no					quadrant position sensor, right segment, X arm
L1	::	ASC - QPDX_T	31071	int16	2048		no					quadrant position sensor, top segment, X arm
L1	::	ASC - QPDX_L	31072	int16	2048		no					quadrant position sensor, left segment, X arm
L1	::	ASC - QPDX_B	31073	int16	2048		no					quadrant position sensor, bottom segment, X arm
L1	::	ASC - QPDY_R	31074	int16	2048		no					quadrant position sensor, right segment, Y arm
L1	::	ASC - QPDY_T	31075	int16	2048		no					quadrant position sensor, top segment, Y arm
L1	::	ASC - QPDY_L	31076	int16	2048		no					quadrant position sensor, left segment, Y arm
L1	::	ASC - QPDY_B	31077	int16	2048		no					quadrant position sensor, bottom segment, Y arm
L1	::	ASC - MISALIGN_WFS1_YAW	31078	real	2048		yes					yaw misalignment angle measured by WFS1
L1	::	ASC - MISALIGN_WFS1_PITCH	31079	real	2048		yes					pitch misalignment angle measured by WFS1
L1	::	ASC - MISALIGN_WFS2_YAW	31080	real	2048		yes					yaw misalignment angle measured by WFS2
L1	::	ASC - MISALIGN_WFS2_PITCH	31081	real	2048		yes					pitch misalignment angle measured by WFS2
L1	::	ASC - MISALIGN_WFS3_YAW	31082	real	2048		yes					yaw misalignment angle measured by WFS3
L1	::	ASC - MISALIGN_WFS3_PITCH	31083	real	2048		yes					pitch misalignment angle measured by WFS3
L1	::	ASC - MISALIGN_WFS4_YAW	31084	real	2048		yes					yaw misalignment angle measured by WFS4
L1	::	ASC - MISALIGN_WFS4_PITCH	31085	real	2048		yes					pitch misalignment angle measured by WFS4

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	::	ASC - MISALIGN_WFS5_YAW	31086	real	2048		yes					yaw misalignment angle measured by WFS5
L1	::	ASC - MISALIGN_WFS5_PITCH	31087	real	2048		yes					pitch misalignment angle measured by WFS5
L1	::	ASC - POSITION_ETMX_X	31088	real	2048		yes					X position measured by QPM, ETMX
L1	::	ASC - POSITION_ETMX_Y	31089	real	2048		yes					Y position measured by QPM, ETMX
L1	::	ASC - POSITION_ETMY_X	31090	real	2048		yes					X position measured by QPM, ETMY
L1	::	ASC - POSITION_ETMY_Y	31091	real	2048		yes					Y position measured by QPM, ETMY
L1	::	ASC - ANGLE_ITMX_YAW	31092	int16	2048		yes					control signal for yaw angle of ITM X
L1	::	ASC - ANGLE_ITMX_PITCH	31093	int16	2048		yes					control signal for pitch angle of ITM X
L1	::	ASC - ANGLE_ITMY_YAW	31094	int16	2048		yes					control signal for yaw angle of ITM Y
L1	::	ASC - ANGLE_ITMY_PITCH	31095	int16	2048		yes					control signal for pitch angle of ITM Y
L1	::	ASC - ANGLE_ETMX_YAW	31096	int16	2048		yes					control signal for yaw angle of ETM X
L1	::	ASC - ANGLE_ETMX_PITCH	31097	int16	2048		yes					control signal for pitch angle of ETM X
L1	::	ASC - ANGLE_ETMY_YAW	31098	int16	2048		yes					control signal for yaw angle of ETM Y
L1	::	ASC - ANGLE_ETMY_PITCH	31099	int16	2048		yes					control signal for pitch angle of ETM Y
L1	::	ASC - ANGLE_RM_YAW	31100	int16	2048		yes					control signal for yaw angle of RM
L1	::	ASC - ANGLE_RM_PITCH	31101	int16	2048		yes					control signal for pitch angle of RM
L1	::	ASC - ANGLE_BS_YAW	31102	int16	2048		yes					control signal for yaw angle of BS
L1	::	ASC - ANGLE_BS_PITCH	31103	int16	2048		yes					control signal for pitch angle of BS
L1	::	ASC - ANGLE_IB_YAW	31104	int16	2048		yes					control signal for yaw angle of input beam
L1	::	ASC - ANGLE_IB_PITCH	31105	int16	2048		yes					control signal for pitch angle of input beam
L1	::	ASC - OPTLEV_ITMX_YAW	31106	int16	256		yes					optical lever yaw angle of ITM X
L1	::	ASC - OPTLEV_ITMX_PITCH	31107	int16	256		yes					optical lever pitch angle of ITM X
L1	::	ASC - OPTLEV_ITMY_YAW	31108	int16	256		yes					optical lever yaw angle of ITM Y
L1	::	ASC - OPTLEV_ITMY_PITCH	31109	int16	256		yes					optical lever pitch angle of ITM Y
L1	::	ASC - OPTLEV_ETMX_YAW	31110	int16	256		yes					optical lever yaw angle of ETM X
L1	::	ASC - OPTLEV_ETMX_PITCH	31111	int16	256		yes					optical lever pitch angle of ETM X
L1	::	ASC - OPTLEV_ETMY_YAW	31112	int16	256		yes					optical lever yaw angle of ETM Y
L1	::	ASC - OPTLEV_ETMY_PITCH	31113	int16	256		yes					optical lever pitch angle of ETM Y
L1	::	ASC - OPTLEV_RM_YAW	31114	int16	256		yes					optical lever yaw angle of RM
L1	::	ASC - OPTLEV_RM_PITCH	31115	int16	256		yes					optical lever pitch angle of RM
L1	::	ASC - OPTLEV_BS_YAW	31116	int16	256		yes					optical lever yaw angle of BS
L1	::	ASC - OPTLEV_BS_PITCH	31117	int16	256		yes					optical lever pitch angle of BS
L1	::	ASC - OPTLEV_IB_YAW	31118	int16	256		yes					optical lever yaw angle of input beam
L1	::	ASC - OPTLEV_IB_PITCH	31119	int16	256		yes					optical lever pitch angle of input beam
L1	::	ASC - OPTLEV_ITMX_I	31120	int16	256		yes					optical lever laser intensity of ITM X
L1	::	ASC - OPTLEV_ITMY_I	31121	int16	256		yes					optical lever laser intensity of ITM Y
L1	::	ASC - OPTLEV_ETMX_I	31122	int16	256		yes					optical lever laser intensity of ETM X
L1	::	ASC - OPTLEV_ETMY_I	31123	int16	256		yes					optical lever laser intensity of ETM Y
L1	::	ASC - OPTLEV_RM_I	31124	int16	256		yes					optical lever laser intensity of RM
L1	::	ASC - OPTLEV_BS_I	31125	int16	256		yes					optical lever laser intensity of BS
L1	::	ASC - WFS1_LO_PHASE_OFS	31126	int16	1	EPICS	no				yes	wavefront sensor 1, local oscillator phase adjustment
L1	::	ASC - WFS2_LO_PHASE_OFS	31127	int16	1	EPICS	no				yes	wavefront sensor 2, local oscillator phase adjustment
L1	::	ASC - WFS3_LO_PHASE_OFS	31128	int16	1	EPICS	no				yes	wavefront sensor 3, local oscillator phase adjustment

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	::	ASC - WFS4_LO_PHASE_OFS	31129	int16	1	EPICS	no				yes	wavefront sensor 4, local oscillator phase adjustment
L1	::	ASC - WFS5_LO_PHASE_OFS	31130	int16	1	EPICS	no				yes	wavefront sensor 5, local oscillator phase adjustment
L1	::	ASC - MISALIGN_ITMX_YAW_OFS	31131	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS1
L1	::	ASC - MISALIGN_ITMX_PITCH_OFS	31132	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS1
L1	::	ASC - MISALIGN_ITMY_YAW_OFS	31133	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS2
L1	::	ASC - MISALIGN_ITMY_PITCH_OFS	31134	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS2
L1	::	ASC - MISALIGN_ETMX_YAW_OFS	31135	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS3
L1	::	ASC - MISALIGN_ETMX_PITCH_OFS	31136	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS3
L1	::	ASC - MISALIGN_ETMY_YAW_OFS	31137	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS4
L1	::	ASC - MISALIGN_ETMY_PITCH_OFS	31138	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS4
L1	::	ASC - MISALIGN_RM_YAW_OFS	31139	real	2048	TP	no				yes	simulus for yaw misalignment angle, WFS5
L1	::	ASC - MISALIGN_RM_PITCH_OFS	31140	real	2048	TP	no				yes	simulus for pitch misalignment angle, WFS5
L1	::	ASC - MISALIGN_BS_YAW_OFS	31141	real	2048	TP	no				yes	simulus for X position measured by QPM, ETMX
L1	::	ASC - MISALIGN_BS_PITCH_OFS	31142	real	2048	TP	no				yes	simulus for Y position measured by QPM, ETMX
L1	::	ASC - MISALIGN_IB_YAW_OFS	31143	real	2048	TP	no				yes	simulus for X position measured by QPM, ETMY
L1	::	ASC - MISALIGN_IB_PITCH_OFS	31144	real	2048	TP	no				yes	simulus for Y position measured by QPM, ETMY
L1	::	ASC - ANGLE_ITMX_YAW_OFS	31145	real	2048	TP	no				yes	simulus for control signal for yaw angle of ITM X
L1	::	ASC - ANGLE_ITMX_PITCH_OFS	31146	real	2048	TP	no				yes	simulus for control signal for pitch angle of ITM X
L1	::	ASC - ANGLE_ITMY_YAW_OFS	31147	real	2048	TP	no				yes	simulus for control signal for yaw angle of ITM Y
L1	::	ASC - ANGLE_ITMY_PITCH_OFS	31148	real	2048	TP	no				yes	simulus for control signal for pitch angle of ITM Y
L1	::	ASC - ANGLE_ETMX_YAW_OFS	31149	real	2048	TP	no				yes	simulus for control signal for yaw angle of ETM X
L1	::	ASC - ANGLE_ETMX_PITCH_OFS	31150	real	2048	TP	no				yes	simulus for control signal for pitch angle of ETM X
L1	::	ASC - ANGLE_ETMY_YAW_OFS	31151	real	2048	TP	no				yes	simulus for control signal for yaw angle of ETM Y
L1	::	ASC - ANGLE_ETMY_PITCH_OFS	31152	real	2048	TP	no				yes	simulus for control signal for pitch angle of ETM Y
L1	::	ASC - ANGLE_RM_YAW_OFS	31153	real	2048	TP	no				yes	simulus for control signal for yaw angle of RM
L1	::	ASC - ANGLE_RM_PITCH_OFS	31154	real	2048	TP	no				yes	simulus for control signal for pitch angle of RM
L1	::	ASC - ANGLE_BS_YAW_OFS	31155	real	2048	TP	no				yes	simulus for control signal for yaw angle of BS
L1	::	ASC - ANGLE_BS_PITCH_OFS	31156	real	2048	TP	no				yes	simulus for control signal for pitch angle of BS
L1	::	ASC - ANGLE_IB_YAW_OFS	31157	real	2048	TP	no				yes	simulus for control signal for yaw angle of input beam
L1	::	ASC - ANGLE_IB_PITCH_OFS	31158	real	2048	TP	no				yes	simulus for control signal for pitch angle of input beam

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	:: SUS	- COIL_ITMX_UL	32000	int16	2048		yes					coil current readback, ITM X, upper-left
L1	:: SUS	- COIL_ITMX_UR	32001	int16	2048		yes					coil current readback, ITM X, upper-right
L1	:: SUS	- COIL_ITMX_LL	32002	int16	2048		yes					coil current readback, ITM X, lower-left
L1	:: SUS	- COIL_ITMX_LR	32003	int16	2048		yes					coil current readback, ITM X, lower-right
L1	:: SUS	- COIL_ITMX_S	32004	int16	2048		yes					coil current readback, ITM X, side
L1	:: SUS	- COIL_ITMX_SUM	32005	int16	16384		yes					coil current readback, ITM X, sum
L1	:: SUS	- COIL_ITMY_UL	32006	int16	2048		yes					coil current readback, ITM Y, upper-left
L1	:: SUS	- COIL_ITMY_UR	32007	int16	2048		yes					coil current readback, ITM Y, upper-right
L1	:: SUS	- COIL_ITMY_LL	32008	int16	2048		yes					coil current readback, ITM Y, lower-left
L1	:: SUS	- COIL_ITMY_LR	32009	int16	2048		yes					coil current readback, ITM Y, lower-right
L1	:: SUS	- COIL_ITMY_S	32010	int16	2048		yes					coil current readback, ITM Y, side
L1	:: SUS	- COIL_ITMY_SUM	32011	int16	16384		yes					coil current readback, ITM Y, sum
L1	:: SUS	- COIL_ETMX_UL	32012	int16	2048		yes					coil current readback, ETM X, upper-left
L1	:: SUS	- COIL_ETMX_UR	32013	int16	2048		yes					coil current readback, ETM X, upper-right
L1	:: SUS	- COIL_ETMX_LL	32014	int16	2048		yes					coil current readback, ETM X, lower-left
L1	:: SUS	- COIL_ETMX_LR	32015	int16	2048		yes					coil current readback, ETM X, lower-right
L1	:: SUS	- COIL_ETMX_S	32016	int16	2048		yes					coil current readback, ETM X, side
L1	:: SUS	- COIL_ETMX_SUM	32017	int16	16384		yes					coil current readback, ETM X, sum
L1	:: SUS	- COIL_ETMY_UL	32018	int16	2048		yes					coil current readback, ETM Y, upper-left
L1	:: SUS	- COIL_ETMY_UR	32019	int16	2048		yes					coil current readback, ETM Y, upper-right
L1	:: SUS	- COIL_ETMY_LL	32020	int16	2048		yes					coil current readback, ETM Y, lower-left
L1	:: SUS	- COIL_ETMY_LR	32021	int16	2048		yes					coil current readback, ETM Y, lower-right
L1	:: SUS	- COIL_ETMY_S	32022	int16	2048		yes					coil current readback, ETM Y, side
L1	:: SUS	- COIL_ETMY_SUM	32023	int16	16384		yes					coil current readback, ETM Y, sum
L1	:: SUS	- COIL_RM_UL	32024	int16	2048		yes					coil current readback, RM, upper-left
L1	:: SUS	- COIL_RM_UR	32025	int16	2048		yes					coil current readback, RM, upper-right
L1	:: SUS	- COIL_RM_LL	32026	int16	2048		yes					coil current readback, RM, lower-left
L1	:: SUS	- COIL_RM_LR	32027	int16	2048		yes					coil current readback, RM, lower-right
L1	:: SUS	- COIL_RM_S	32028	int16	2048		yes					coil current readback, RM, side
L1	:: SUS	- COIL_RM_SUM	32029	int16	16384		yes					coil current readback, RM, sum
L1	:: SUS	- COIL_BS_UL	32030	int16	2048		yes					coil current readback, BS, upper-left
L1	:: SUS	- COIL_BS_UR	32031	int16	2048		yes					coil current readback, BS, upper-right
L1	:: SUS	- COIL_BS_LL	32032	int16	2048		yes					coil current readback, BS, lower-left
L1	:: SUS	- COIL_BS_LR	32033	int16	2048		yes					coil current readback, BS, lower-right
L1	:: SUS	- COIL_BS_S	32034	int16	2048		yes					coil current readback, BS, side
L1	:: SUS	- COIL_BS_SUM	32035	int16	16384		yes					coil current readback, BS, sum
L1	:: SUS	- COIL_MC1_UL	32048	int16	2048		yes					coil current readback, mode cleaner 1, upper-left
L1	:: SUS	- COIL_MC1_UR	32049	int16	2048		yes					coil current readback, mode cleaner 1, upper-right
L1	:: SUS	- COIL_MC1_LL	32050	int16	2048		yes					coil current readback, mode cleaner 1, lower-left
L1	:: SUS	- COIL_MC1_LR	32051	int16	2048		yes					coil current readback, mode cleaner 1, lower-right
L1	:: SUS	- COIL_MC1_S	32052	int16	2048		yes					coil current readback, mode cleaner 1, side
L1	:: SUS	- COIL_MC1_SUM	32053	int16	16384		yes					coil current readback, mode cleaner 1, sum
L1	:: SUS	- COIL_MC2_UL	32054	int16	2048		yes					coil current readback, mode cleaner 2, upper-left

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	:: SUS	- COIL_MC2_UR	32055	int16	2048		yes					coil current readback, mode cleaner 2, upper-right
L1	:: SUS	- COIL_MC2_LL	32056	int16	2048		yes					coil current readback, mode cleaner 2, lower-left
L1	:: SUS	- COIL_MC2_LR	32057	int16	2048		yes					coil current readback, mode cleaner 2, lower-right
L1	:: SUS	- COIL_MC2_S	32058	int16	2048		yes					coil current readback, mode cleaner 2, side
L1	:: SUS	- COIL_MC2_SUM	32059	int16	16384		yes					coil current readback, mode cleaner 2, sum
L1	:: SUS	- COIL_MC3_UL	32060	int16	2048		yes					coil current readback, mode cleaner 3, upper-left
L1	:: SUS	- COIL_MC3_UR	32061	int16	2048		yes					coil current readback, mode cleaner 3, upper-right
L1	:: SUS	- COIL_MC3_LL	32062	int16	2048		yes					coil current readback, mode cleaner 3, lower-left
L1	:: SUS	- COIL_MC3_LR	32063	int16	2048		yes					coil current readback, mode cleaner 3, lower-right
L1	:: SUS	- COIL_MC3_S	32064	int16	2048		yes					coil current readback, mode cleaner 3, side
L1	:: SUS	- COIL_MC3_SUM	32065	int16	16384		yes					coil current readback, mode cleaner 3, sum
L1	:: SUS	- COIL_FM1_UL	32066	int16	2048		no					coil current readback, folding mirror 1, upper-left
L1	:: SUS	- COIL_FM1_UR	32067	int16	2048		no					coil current readback, folding mirror 1, upper-right
L1	:: SUS	- COIL_FM1_LL	32068	int16	2048		no					coil current readback, folding mirror 1, lower-left
L1	:: SUS	- COIL_FM1_LR	32069	int16	2048		no					coil current readback, folding mirror 1, lower-right
L1	:: SUS	- COIL_FM1_S	32070	int16	2048		no					coil current readback, folding mirror 1, side
L1	:: SUS	- COIL_FM1_SUM	32071	int16	16384		no					coil current readback, folding mirror 1, sum
L1	:: SUS	- COIL_MMT1_UL	32078	int16	2048		no					coil current readback, mode matching 1, upper-left
L1	:: SUS	- COIL_MMT1_UR	32079	int16	2048		no					coil current readback, mode matching 1, upper-right
L1	:: SUS	- COIL_MMT1_LL	32080	int16	2048		no					coil current readback, mode matching 1, lower-left
L1	:: SUS	- COIL_MMT1_LR	32081	int16	2048		no					coil current readback, mode matching 1, lower-right
L1	:: SUS	- COIL_MMT1_S	32082	int16	2048		no					coil current readback, mode matching 1, side
L1	:: SUS	- COIL_MMT1_SUM	32083	int16	16384		no					coil current readback, mode matching 1, sum
L1	:: SUS	- COIL_MMT2_UL	32084	int16	2048		no					coil current readback, mode matching 2, upper-left
L1	:: SUS	- COIL_MMT2_UR	32085	int16	2048		no					coil current readback, mode matching 2, upper-right
L1	:: SUS	- COIL_MMT2_LL	32086	int16	2048		no					coil current readback, mode matching 2, lower-left
L1	:: SUS	- COIL_MMT2_LR	32087	int16	2048		no					coil current readback, mode matching 2, lower-right
L1	:: SUS	- COIL_MMT2_S	32088	int16	2048		no					coil current readback, mode matching 2, side
L1	:: SUS	- COIL_MMT2_SUM	32089	int16	16384		no					coil current readback, mode matching 2, sum
L1	:: SUS	- COIL_MMT3_UL	32090	int16	2048		no					coil current readback, mode matching 3, upper-left
L1	:: SUS	- COIL_MMT3_UR	32091	int16	2048		no					coil current readback, mode matching 3, upper-right
L1	:: SUS	- COIL_MMT3_LL	32092	int16	2048		no					coil current readback, mode matching 3, lower-left
L1	:: SUS	- COIL_MMT3_LR	32093	int16	2048		no					coil current readback, mode matching 3, lower-right
L1	:: SUS	- COIL_MMT3_S	32094	int16	2048		no					coil current readback, mode matching 3, side
L1	:: SUS	- COIL_MMT3_SUM	32095	int16	16384		no					coil current readback, mode matching 3, sum
L1	:: SUS	- SENSOR_ITMX_UL	32096	int16	64		yes					local sensor, ITM X, upper-left
L1	:: SUS	- SENSOR_ITMX_UR	32097	int16	64		yes					local sensor, ITM X, upper-right
L1	:: SUS	- SENSOR_ITMX_LL	32098	int16	64		yes					local sensor, ITM X, lower-left
L1	:: SUS	- SENSOR_ITMX_LR	32099	int16	64		yes					local sensor, ITM X, lower-right
L1	:: SUS	- SENSOR_ITMX_S	32100	int16	64		yes					local sensor, ITM X, side
L1	:: SUS	- SENSOR_ITMY_UL	32101	int16	64		yes					local sensor, ITM Y, upper-left
L1	:: SUS	- SENSOR_ITMY_UR	32102	int16	64		yes					local sensor, ITM Y, upper-right
L1	:: SUS	- SENSOR_ITMY_LL	32103	int16	64		yes					local sensor, ITM Y, lower-left

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	::	SUS - SENSOR_ITMY_LR	32104	int16	64		yes					local sensor, ITM Y, lower-right
L1	::	SUS - SENSOR_ITMY_S	32105	int16	64		yes					local sensor, ITM Y, side
L1	::	SUS - SENSOR_ETMX_UL	32106	int16	64		yes					local sensor, ETM X, upper-left
L1	::	SUS - SENSOR_ETMX_UR	32107	int16	64		yes					local sensor, ETM X, upper-right
L1	::	SUS - SENSOR_ETMX_LL	32108	int16	64		yes					local sensor, ETM X, lower-left
L1	::	SUS - SENSOR_ETMX_LR	32109	int16	64		yes					local sensor, ETM X, lower-right
L1	::	SUS - SENSOR_ETMX_S	32110	int16	64		yes					local sensor, ETM X, side
L1	::	SUS - SENSOR_ETMY_UL	32111	int16	64		yes					local sensor, ETM Y, upper-left
L1	::	SUS - SENSOR_ETMY_UR	32112	int16	64		yes					local sensor, ETM Y, upper-right
L1	::	SUS - SENSOR_ETMY_LL	32113	int16	64		yes					local sensor, ETM Y, lower-left
L1	::	SUS - SENSOR_ETMY_LR	32114	int16	64		yes					local sensor, ETM Y, lower-right
L1	::	SUS - SENSOR_ETMY_S	32115	int16	64		yes					local sensor, ETM Y, side
L1	::	SUS - SENSOR_RM_UL	32116	int16	64		yes					local sensor, RM, upper-left
L1	::	SUS - SENSOR_RM_UR	32117	int16	64		yes					local sensor, RM, upper-right
L1	::	SUS - SENSOR_RM_LL	32118	int16	64		yes					local sensor, RM, lower-left
L1	::	SUS - SENSOR_RM_LR	32119	int16	64		yes					local sensor, RM, lower-right
L1	::	SUS - SENSOR_RM_S	32120	int16	64		yes					local sensor, RM, side
L1	::	SUS - SENSOR_BS_UL	32121	int16	64		yes					local sensor, BS, upper-left
L1	::	SUS - SENSOR_BS_UR	32122	int16	64		yes					local sensor, BS, upper-right
L1	::	SUS - SENSOR_BS_LL	32123	int16	64		yes					local sensor, BS, lower-left
L1	::	SUS - SENSOR_BS_LR	32124	int16	64		yes					local sensor, BS, lower-right
L1	::	SUS - SENSOR_BS_S	32125	int16	64		yes					local sensor, BS, side
L1	::	SUS - SENSOR_MC1_UL	32136	int16	64		yes					local sensor, mode cleaner 1, upper-left
L1	::	SUS - SENSOR_MC1_UR	32137	int16	64		yes					local sensor, mode cleaner 1, upper-right
L1	::	SUS - SENSOR_MC1_LL	32138	int16	64		yes					local sensor, mode cleaner 1, lower-left
L1	::	SUS - SENSOR_MC1_LR	32139	int16	64		yes					local sensor, mode cleaner 1, lower-right
L1	::	SUS - SENSOR_MC1_S	32140	int16	64		yes					local sensor, mode cleaner 1, side
L1	::	SUS - SENSOR_MC2_UL	32141	int16	64		yes					local sensor, mode cleaner 2, upper-left
L1	::	SUS - SENSOR_MC2_UR	32142	int16	64		yes					local sensor, mode cleaner 2, upper-right
L1	::	SUS - SENSOR_MC2_LL	32143	int16	64		yes					local sensor, mode cleaner 2, lower-left
L1	::	SUS - SENSOR_MC2_LR	32144	int16	64		yes					local sensor, mode cleaner 2, lower-right
L1	::	SUS - SENSOR_MC2_S	32145	int16	64		yes					local sensor, mode cleaner 2, side
L1	::	SUS - SENSOR_MC3_UL	32146	int16	64		yes					local sensor, mode cleaner 3, upper-left
L1	::	SUS - SENSOR_MC3_UR	32147	int16	64		yes					local sensor, mode cleaner 3, upper-right
L1	::	SUS - SENSOR_MC3_LL	32148	int16	64		yes					local sensor, mode cleaner 3, lower-left
L1	::	SUS - SENSOR_MC3_LR	32149	int16	64		yes					local sensor, mode cleaner 3, lower-right
L1	::	SUS - SENSOR_MC3_S	32150	int16	64		yes					local sensor, mode cleaner 3, side
L1	::	SUS - SENSOR_FM1_UL	12135	int16	64		yes					local sensor, folding mirror 1, upper-left
L1	::	SUS - SENSOR_FM1_UR	12136	int16	64		yes					local sensor, folding mirror 1, upper-right
L1	::	SUS - SENSOR_FM1_LL	12137	int16	64		yes					local sensor, folding mirror 1, lower-left
L1	::	SUS - SENSOR_FM1_LR	12138	int16	64		yes					local sensor, folding mirror 1, lower-right
L1	::	SUS - SENSOR_FM1_S	12139	int16	64		yes					local sensor, folding mirror 1, side
L1	::	SUS - SENSOR_MMT1_UL	32161	int16	64		yes					local sensor, mode matching 1, upper-left

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	:: SUS	- SENSOR_MMT1_UR	32162	int16	64		yes					local sensor, mode matching 1, upper-right
L1	:: SUS	- SENSOR_MMT1_LL	32163	int16	64		yes					local sensor, mode matching 1, lower-left
L1	:: SUS	- SENSOR_MMT1_LR	32164	int16	64		yes					local sensor, mode matching 1, lower-right
L1	:: SUS	- SENSOR_MMT1_S	32165	int16	64		yes					local sensor, mode matching 1, side
L1	:: SUS	- SENSOR_MMT2_UL	32166	int16	64		yes					local sensor, mode matching 2, upper-left
L1	:: SUS	- SENSOR_MMT2_UR	32167	int16	64		yes					local sensor, mode matching 2, upper-right
L1	:: SUS	- SENSOR_MMT2_LL	32168	int16	64		yes					local sensor, mode matching 2, lower-left
L1	:: SUS	- SENSOR_MMT2_LR	32169	int16	64		yes					local sensor, mode matching 2, lower-right
L1	:: SUS	- SENSOR_MMT2_S	32170	int16	64		yes					local sensor, mode matching 2, side
L1	:: SUS	- SENSOR_MMT3_UL	32171	int16	64		yes					local sensor, mode matching 3, upper-left
L1	:: SUS	- SENSOR_MMT3_UR	32172	int16	64		yes					local sensor, mode matching 3, upper-right
L1	:: SUS	- SENSOR_MMT3_LL	32173	int16	64		yes					local sensor, mode matching 3, lower-left
L1	:: SUS	- SENSOR_MMT3_LR	32174	int16	64		yes					local sensor, mode matching 3, lower-right
L1	:: SUS	- SENSOR_MMT3_S	32175	int16	64		yes					local sensor, mode matching 3, side

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	:: IOO	- MODECLEANER	33000	int16	16384		yes					mode cleaner length sensor, I-phase
L1	:: IOO	- MODECLEANER_Q	33001	int16	16384		yes					mode cleaner length sensor, Q-phase
L1	:: IOO	- LENGTH_MODECLEANER	33002	int16	256		yes					control signal for mode cleaner length
L1	:: IOO	- LASER_FREQUENCY_MC	33003	int16	16384		yes					control signal for laser frequency
L1	:: IOO	- TEST_OUT1	33004	int16	16384		yes					servo test signal after error signal summing junction
L1	:: IOO	- TEST_OUT2	33005	int16	16384		yes					servo test signal before feedback split MC/laser
L1	:: IOO	- MODECLEANER_DC	33006	int16	1	EPICS	yes					mode cleaner length sensor, DC signal
L1	:: IOO	- LS_TEMP_MC	33007	int16	1	EPICS	yes					photodiode temperature, mode cleaner
L1	:: IOO	- WFS_MC1_R_I	33008	int16	2048		no					MC wavefront sensor 1, right segment, I-phase
L1	:: IOO	- WFS_MC1_T_I	33009	int16	2048		no					MC wavefront sensor 1, top segment, I-phase
L1	:: IOO	- WFS_MC1_L_I	33010	int16	2048		no					MC wavefront sensor 1, left segment, I-phase
L1	:: IOO	- WFS_MC1_B_I	33011	int16	2048		no					MC wavefront sensor 1, bottom segment, I-phase
L1	:: IOO	- WFS_MC1_R_Q	33012	int16	2048		no					MC wavefront sensor 1, right segment, Q-phase
L1	:: IOO	- WFS_MC1_T_Q	33013	int16	2048		no					MC wavefront sensor 1, top segment, Q-phase
L1	:: IOO	- WFS_MC1_L_Q	33014	int16	2048		no					MC wavefront sensor 1, left segment, Q-phase
L1	:: IOO	- WFS_MC1_B_Q	33015	int16	2048		no					MC wavefront sensor 1, bottom segment, Q-phase
L1	:: IOO	- WFS_MC1_R_DC	33016	int16	16		yes					MC wavefront sensor 1, right segment, DC signal
L1	:: IOO	- WFS_MC1_T_DC	33017	int16	16		yes					MC wavefront sensor 1, top segment, DC signal
L1	:: IOO	- WFS_MC1_L_DC	33018	int16	16		yes					MC wavefront sensor 1, left segment, DC signal
L1	:: IOO	- WFS_MC1_B_DC	33019	int16	16		yes					MC wavefront sensor 1, bottom segment, DC signal
L1	:: IOO	- WFS_MC2_R_I	33020	int16	2048		no					MC wavefront sensor 2, right segment, I-phase
L1	:: IOO	- WFS_MC2_T_I	33021	int16	2048		no					MC wavefront sensor 2, top segment, I-phase
L1	:: IOO	- WFS_MC2_L_I	33022	int16	2048		no					MC wavefront sensor 2, left segment, I-phase
L1	:: IOO	- WFS_MC2_B_I	33023	int16	2048		no					MC wavefront sensor 2, bottom segment, I-phase
L1	:: IOO	- WFS_MC2_R_Q	33024	int16	2048		no					MC wavefront sensor 2, right segment, Q-phase
L1	:: IOO	- WFS_MC2_T_Q	33025	int16	2048		no					MC wavefront sensor 2, top segment, Q-phase
L1	:: IOO	- WFS_MC2_L_Q	33026	int16	2048		no					MC wavefront sensor 2, left segment, Q-phase
L1	:: IOO	- WFS_MC2_B_Q	33027	int16	2048		no					MC wavefront sensor 2, bottom segment, Q-phase
L1	:: IOO	- WFS_MC2_R_DC	33028	int16	16		yes					MC wavefront sensor 2, right segment, DC signal
L1	:: IOO	- WFS_MC2_T_DC	33029	int16	16		yes					MC wavefront sensor 2, top segment, DC signal
L1	:: IOO	- WFS_MC2_L_DC	33030	int16	16		yes					MC wavefront sensor 2, left segment, DC signal
L1	:: IOO	- WFS_MC2_B_DC	33031	int16	16		yes					MC wavefront sensor 2, bottom segment, DC signal
L1	:: IOO	- MISALIGN_MC1_YAW	33032	real	2048		yes					yaw misalignment angle, differential mode cleaner
L1	:: IOO	- MISALIGN_MC1_PITCH	33033	real	2048		yes					pitch misalignment angle, differential mode cleaner
L1	:: IOO	- MISALIGN_MC2_YAW	33034	real	2048		yes					yaw misalignment angle, common mode cleaner
L1	:: IOO	- MISALIGN_MC2_PITCH	33035	real	2048		yes					pitch misalignment angle, common mode cleaner
L1	:: IOO	- ANGLE_MC_IB_YAW	33036	int16	2048		yes					control signal for yaw angle of MC input beam
L1	:: IOO	- ANGLE_MC_IB_PITCH	33037	int16	2048		yes					control signal for pitch angle of MC input beam
L1	:: IOO	- SHIFT_MC_IB_HOR	33038	int16	2048		yes					control signal for horizontal shift of MC input beam
L1	:: IOO	- SHIFT_MC_IB_VER	33039	int16	2048		yes					control signal for vertical shift of MC input beam
L1	:: IOO	- WFS_MM1_D_I	33040	int16	256		no					mode matching sensor 1, disk, I-phase
L1	:: IOO	- WFS_MM1_R1_I	33041	int16	256		no					mode matching sensor 1, ring segment 1, I-phase
L1	:: IOO	- WFS_MM1_R2_I	33042	int16	256		no					mode matching sensor 1, ring segment 2, I-phase



Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	:: IOO	- WFS_MM1_R3_I	33043	int16	256		no					mode matching sensor 1, ring segment 3, I-phase
L1	:: IOO	- WFS_MM1_D_Q	33044	int16	256		no					mode matching sensor 1, disk, Q-phase
L1	:: IOO	- WFS_MM1_R1_Q	33045	int16	256		no					mode matching sensor 1, ring segment 1, Q-phase
L1	:: IOO	- WFS_MM1_R2_Q	33046	int16	256		no					mode matching sensor 1, ring segment 2, Q-phase
L1	:: IOO	- WFS_MM1_R3_Q	33047	int16	256		no					mode matching sensor 1, ring segment 3, Q-phase
L1	:: IOO	- WFS_MM1_D_DC	33048	int16	16		no					mode matching sensor 1, disk, DC signal
L1	:: IOO	- WFS_MM1_R1_DC	33049	int16	16		no					mode matching sensor 1, ring segment 1, DC signal
L1	:: IOO	- WFS_MM1_R2_DC	33050	int16	16		no					mode matching sensor 1, ring segment 2, DC signal
L1	:: IOO	- WFS_MM1_R3_DC	33051	int16	16		no					mode matching sensor 1, ring segment 3, DC signal
L1	:: IOO	- WFS_MM2_D_I	33052	int16	256		no					mode matching sensor 2, disk, I-phase
L1	:: IOO	- WFS_MM2_R1_I	33053	int16	256		no					mode matching sensor 2, ring segment 1, I-phase
L1	:: IOO	- WFS_MM2_R2_I	33054	int16	256		no					mode matching sensor 2, ring segment 2, I-phase
L1	:: IOO	- WFS_MM2_R3_I	33055	int16	256		no					mode matching sensor 2, ring segment 3, I-phase
L1	:: IOO	- WFS_MM2_D_Q	33056	int16	256		no					mode matching sensor 2, disk, Q-phase
L1	:: IOO	- WFS_MM2_R1_Q	33057	int16	256		no					mode matching sensor 2, ring segment 1, Q-phase
L1	:: IOO	- WFS_MM2_R2_Q	33058	int16	256		no					mode matching sensor 2, ring segment 2, Q-phase
L1	:: IOO	- WFS_MM2_R3_Q	33059	int16	256		no					mode matching sensor 2, ring segment 3, Q-phase
L1	:: IOO	- WFS_MM2_D_DC	33060	int16	16		no					mode matching sensor 2, disk, DC signal
L1	:: IOO	- WFS_MM2_R1_DC	33061	int16	16		no					mode matching sensor 2, ring segment 1, DC signal
L1	:: IOO	- WFS_MM2_R2_DC	33062	int16	16		no					mode matching sensor 2, ring segment 2, DC signal
L1	:: IOO	- WFS_MM2_R3_DC	33063	int16	16		no					mode matching sensor 2, ring segment 3, DC signal
L1	:: IOO	- MODECLEANER_I_OFS	33064	int16	16384		no				yes	stimulus for mode cleaner length error signal
L1	:: IOO	- LENGTH_MODECLEANER_OFS	33065	int16	16384		no				yes	stimulus for control signal for mode cleaner length
L1	:: IOO	- TEST_IN1	33066	int16	256		no				yes	stimulus after servo feedback split: MC path
L1	:: IOO	- TEST_IN2	33067	int16	16384		no				yes	stimulus after servo feedback split: laser path
L1	:: IOO	- MISALIGN_MC1_YAW_OFS	33068	real	2048	TP	no				yes	stimulus for yaw misalignment angle, differential MC
L1	:: IOO	- MISALIGN_MC1_PITCH_OFS	33069	real	2048	TP	no				yes	stimulus for pitch misalignment angle, differential MC
L1	:: IOO	- MISALIGN_MC2_YAW_OFS	33070	real	2048	TP	no				yes	stimulus for yaw misalignment angle, common MC
L1	:: IOO	- MISALIGN_MC2_PITCH_OFS	33071	real	2048	TP	no				yes	stimulus for pitch misalignment angle, common MC
L1	:: IOO	- ANGLE_MC_IB_YAW_OFS	33072	real	2048	TP	no				yes	control signal stimulus for yaw angle of MC input beam
L1	:: IOO	- ANGLE_MC_IB_PITCH_OFS	33073	real	2048	TP	no				yes	control signal stimulus for pitch angle of MC input beam
L1	:: IOO	- SHIFT_MC_IB_HOR_OFS	33074	real	2048	TP	no				yes	control signal stimulus for horiz. shift of MC input beam
L1	:: IOO	- SHIFT_MC_IB_VER_OFS	33075	real	2048	TP	no				yes	control signal stimulus for vert. shift of MC input beam
L1	:: IOO	- LENGTH_MMT1_OFS	33076	int16	256		no				yes	stimulus for MMT1 position
L1	:: IOO	- LENGTH_MMT2_OFS	33077	int16	256		no				yes	stimulus for MMT2 position
L1	:: IOO	- LENGTH_MMT3_OFS	33078	int16	256		no				yes	stimulus for MMT3 position

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	::	PSL - REFCAV_I	34000	int16	16384		yes					reference cavity, I-phase
L1	::	PSL - REFCAV_DC	34001	int16	16		yes					reference cavity, DC signal
L1	::	PSL - REFCAV_TRANS	34002	int16	16		yes					reference cavity, transmitted signal
L1	::	PSL - LASER_FREQUENCY_EOM	34003	int16	16384		yes					control signal for frequency stabilization, electro-opt.
L1	::	PSL - LASER_FREQUENCY_FAST	34004	int16	16384		yes					control signal for frequency stabilization, fast PZT
L1	::	PSL - LASER_FREQUENCY_SLOW	34005	int16	256		yes					control signal for frequency stabilization, slow PZT
L1	::	PSL - LASER_FREQUENCY_AOM	34006	int16	16384		yes					control signal for frequency stabilization, acousto-opt.
L1	::	PSL - LASER_POWER	34007	int16	16384		yes					laser power monitor
L1	::	PSL - PMC_I	34008	int16	16384		yes					pre-mode cleaner, I-phase
L1	::	PSL - PMC_DC	34009	int16	16		yes					pre-mode cleaner, DC signal
L1	::	PSL - PMC_TRANS	34010	int16	16		yes					pre-mode cleaner, transmitted signal
L1	::	PSL - LASER_POWER_RAW	34011	int16	16384		yes					raw laser power going to IOO
L1	::	PSL - LASER_FREQUENCY_AOM_OFS	34012	int16	16384		no				yes	stimulus for laser frequency offset, AOM
L1	::	PSL - LASER_POWER_OFS	34013	int16	16384		no				yes	stimulus for laser power modulation

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	:: SEI	- COARSE_ITMX_UX	35000	int16	16		yes					coarse actuator position, ITM X, UX
L1	:: SEI	- COARSE_ITMX_UY	35001	int16	16		yes					coarse actuator position, ITM X, UY
L1	:: SEI	- COARSE_ITMX_UZ	35002	int16	16		yes					coarse actuator position, ITM X, UZ
L1	:: SEI	- COARSE_ITMX_RZ	35003	int16	16		yes					coarse actuator orientation, ITM X, RZ
L1	:: SEI	- COARSE_ITMY_UX	35004	int16	16		yes					coarse actuator position, ITM Y, UX
L1	:: SEI	- COARSE_ITMY_UY	35005	int16	16		yes					coarse actuator position, ITM Y, UY
L1	:: SEI	- COARSE_ITMY_UZ	35006	int16	16		yes					coarse actuator position, ITM Y, UZ
L1	:: SEI	- COARSE_ITMY_RZ	35007	int16	16		yes					coarse actuator orientation, ITM Y, RZ
L1	:: SEI	- COARSE_ETMX_UX	35008	int16	16		yes					coarse actuator position, ETM X, UX
L1	:: SEI	- COARSE_ETMX_UY	35009	int16	16		yes					coarse actuator position, ETM X, UY
L1	:: SEI	- COARSE_ETMX_UZ	35010	int16	16		yes					coarse actuator position, ETM X, UZ
L1	:: SEI	- COARSE_ETMX_RZ	35011	int16	16		yes					coarse actuator orientation, ETM X, RZ
L1	:: SEI	- COARSE_ETMY_UX	35012	int16	16		yes					coarse actuator position, ETM Y, UX
L1	:: SEI	- COARSE_ETMY_UY	35013	int16	16		yes					coarse actuator position, ETM Y, UY
L1	:: SEI	- COARSE_ETMY_UZ	35014	int16	16		yes					coarse actuator position, ETM Y, UZ
L1	:: SEI	- COARSE_ETMY_RZ	35015	int16	16		yes					coarse actuator orientation, ETM Y, RZ
L1	:: SEI	- COARSE_RM_UX	35016	int16	16		yes					coarse actuator position, RM, UX
L1	:: SEI	- COARSE_RM_UY	35017	int16	16		yes					coarse actuator position, RM, UY
L1	:: SEI	- COARSE_RM_UZ	35018	int16	16		yes					coarse actuator position, RM, UZ
L1	:: SEI	- COARSE_RM_RZ	35019	int16	16		yes					coarse actuator orientation, RM, RZ
L1	:: SEI	- COARSE_BS_UX	35020	int16	16		yes					coarse actuator position, BS, UX
L1	:: SEI	- COARSE_BS_UY	35021	int16	16		yes					coarse actuator position, BS, UY
L1	:: SEI	- COARSE_BS_UZ	35022	int16	16		yes					coarse actuator position, BS, UZ
L1	:: SEI	- COARSE_BS_RZ	35023	int16	16		yes					coarse actuator orientation, BS, RZ
L1	:: SEI	- COARSE_IN1_UX	35024	int16	16		yes					coarse actuator position, 1st input HAM, UX
L1	:: SEI	- COARSE_IN1_UY	35025	int16	16		yes					coarse actuator position, 1st input HAM, UY
L1	:: SEI	- COARSE_IN1_UZ	35026	int16	16		yes					coarse actuator position, 1st input HAM, UZ
L1	:: SEI	- COARSE_IN1_RZ	35027	int16	16		yes					coarse actuator orientation, 1st input HAM, RZ
L1	:: SEI	- COARSE_IN2_UX	35028	int16	16		yes					coarse actuator position, 2nd input HAM, UX
L1	:: SEI	- COARSE_IN2_UY	35029	int16	16		yes					coarse actuator position, 2nd input HAM, UY
L1	:: SEI	- COARSE_IN2_UZ	35030	int16	16		yes					coarse actuator position, 2nd input HAM, UZ
L1	:: SEI	- COARSE_IN2_RZ	35031	int16	16		yes					coarse actuator orientation, 2nd input HAM, RZ
L1	:: SEI	- COARSE_OUT1_UX	35032	int16	16		yes					coarse actuator position, 1st output HAM, UX
L1	:: SEI	- COARSE_OUT1_UY	35033	int16	16		yes					coarse actuator position, 1st output HAM, UY
L1	:: SEI	- COARSE_OUT1_UZ	35034	int16	16		yes					coarse actuator position, 1st output HAM, UZ
L1	:: SEI	- COARSE_OUT1_RZ	35035	int16	16		yes					coarse actuator orientation, 1st output HAM, RZ
L1	:: SEI	- COARSE_OUT2_UX	35036	int16	16		yes					coarse actuator position, 2nd output HAM, UX
L1	:: SEI	- COARSE_OUT2_UY	35037	int16	16		yes					coarse actuator position, 2nd output HAM, UY
L1	:: SEI	- COARSE_OUT2_UZ	35038	int16	16		yes					coarse actuator position, 2nd output HAM, UZ
L1	:: SEI	- COARSE_OUT2_RZ	35039	int16	16		yes					coarse actuator orientation, 2nd output HAM, RZ
L1	:: SEI	- COARSE_OUT3_UX	35040	int16	16		no					coarse actuator position, 3rd output HAM, UX
L1	:: SEI	- COARSE_OUT3_UY	35041	int16	16		no					coarse actuator position, 3rd output HAM, UY
L1	:: SEI	- COARSE_OUT3_UZ	35042	int16	16		no					coarse actuator position, 3rd output HAM, UZ

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
L1	:: SEI	- COARSE_OUT3_RZ	35043	int16	16		no					coarse actuator orientation, 3rd output HAM, RZ
L1	:: SEI	- FINE_ITMX_UX	35044	int16	16		yes					fine actuator position, ITM X, UX
L1	:: SEI	- FINE_ITMY_UX	35045	int16	16		yes					fine actuator position, ITM Y, UX
L1	:: SEI	- FINE_ETMX_UX	35046	int16	16		yes					fine actuator position, ETM X, UX
L1	:: SEI	- FINE_ETMY_UX	35047	int16	16		yes					fine actuator position, ETM Y, UX

Channel List			ID	Fmt	Rate	DCU	Frame			FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend		stim.	
LPM	::	PEM - SEIS_C_X	40000	int16	256		yes					corner station seismometer, x direction
LPM	::	PEM - SEIS_C_Y	40001	int16	256		yes					corner station seismometer, y direction
LPM	::	PEM - SEIS_C_Z	40002	int16	256		yes					corner station seismometer, z direction
LPM	::	PEM - SEIS_Ea_X	40003	int16	256		yes					end station 'a' seismometer, x direction
LPM	::	PEM - SEIS_Ea_Y	40004	int16	256		yes					end station 'a' seismometer, y direction
LPM	::	PEM - SEIS_Ea_Z	40005	int16	256		yes					end station 'a' seismometer, z direction
LPM	::	PEM - SEIS_Eb_X	40006	int16	256		yes					end station 'b' seismometer, x direction
LPM	::	PEM - SEIS_Eb_Y	40007	int16	256		yes					end station 'b' seismometer, y direction
LPM	::	PEM - SEIS_Eb_Z	40008	int16	256		yes					end station 'b' seismometer, z direction
LPM	::	PEM - TILT_C_X	40015	int16	256		yes					corner station tiltmeter, about x
LPM	::	PEM - TILT_C_Y	40016	int16	256		yes					corner station tiltmeter, about y
LPM	::	PEM - TILT_Ea_X	40017	int16	256		yes					end station 'a' tiltmeter, about x
LPM	::	PEM - TILT_Ea_Y	40018	int16	256		yes					end station 'a' tiltmeter, about y
LPM	::	PEM - TILT_Eb_X	40019	int16	256		yes					end station 'b' tiltmeter, about x
LPM	::	PEM - TILT_Eb_Y	40020	int16	256		yes					end station 'b' tiltmeter, about y
LPM	::	PEM - ACC_BSC1_1X	40025	int16	2048		yes					accelerometer signal, BSC1, triaxial unit 1, x
LPM	::	PEM - ACC_BSC1_1Y	40026	int16	2048		yes					accelerometer signal, BSC1, triaxial unit 1, y
LPM	::	PEM - ACC_BSC1_1Z	40027	int16	2048		yes					accelerometer signal, BSC1, triaxial unit 1, z
LPM	::	PEM - ACC_BSC3_1X	40031	int16	2048		yes					accelerometer signal, BSC3, triaxial unit 1, x
LPM	::	PEM - ACC_BSC3_1Y	40032	int16	2048		yes					accelerometer signal, BSC3, triaxial unit 1, y
LPM	::	PEM - ACC_BSC3_1Z	40033	int16	2048		yes					accelerometer signal, BSC3, triaxial unit 1, z
LPM	::	PEM - ACC_BSC9_1X	40037	int16	2048		yes					accelerometer signal, BSC9, triaxial unit 1, x
LPM	::	PEM - ACC_BSC9_1Y	40038	int16	2048		yes					accelerometer signal, BSC9, triaxial unit 1, y
LPM	::	PEM - ACC_BSC9_1Z	40039	int16	2048		yes					accelerometer signal, BSC9, triaxial unit 1, z
LPM	::	PEM - ACC_BSC10_1X	40043	int16	2048		yes					accelerometer signal, BSC10, triaxial unit 1, x
LPM	::	PEM - ACC_BSC10_1Y	40044	int16	2048		yes					accelerometer signal, BSC10, triaxial unit 1, y
LPM	::	PEM - ACC_BSC10_1Z	40045	int16	2048		yes					accelerometer signal, BSC10, triaxial unit 1, z
LPM	::	PEM - ACC_BSC2_X	40049	int16	2048		yes					accelerometer signal, BSC2, x
LPM	::	PEM - ACC_BSC2_Y	40050	int16	2048		yes					accelerometer signal, BSC2, y
LPM	::	PEM - ACC_BSC2_Z	40051	int16	2048		yes					accelerometer signal, BSC2, z
LPM	::	PEM - ACC_HAM1_X	40052	int16	2048		yes					accelerometer signal, HAM1, x
LPM	::	PEM - ACC_HAM1_Y	40053	int16	2048		yes					accelerometer signal, HAM1, y
LPM	::	PEM - ACC_HAM1_Z	40054	int16	2048		yes					accelerometer signal, HAM1, z
LPM	::	PEM - ACC_HAM2_X	40055	int16	2048		yes					accelerometer signal, HAM2, x
LPM	::	PEM - ACC_HAM2_Y	40056	int16	2048		yes					accelerometer signal, HAM2, y
LPM	::	PEM - ACC_HAM2_Z	40057	int16	2048		yes					accelerometer signal, HAM2, z
LPM	::	PEM - ACC_HAM3_X	40058	int16	2048		yes					accelerometer signal, HAM3, x
LPM	::	PEM - ACC_HAM3_Y	40059	int16	2048		yes					accelerometer signal, HAM3, y
LPM	::	PEM - ACC_HAM3_Z	40060	int16	2048		yes					accelerometer signal, HAM3, z
LPM	::	PEM - ACC_HAM4_X	40061	int16	2048		yes					accelerometer signal, HAM4, x
LPM	::	PEM - ACC_HAM4_Y	40062	int16	2048		yes					accelerometer signal, HAM4, y
LPM	::	PEM - ACC_HAM4_Z	40063	int16	2048		yes					accelerometer signal, HAM4, z
LPM	::	PEM - ACC_HAM5_X	40064	int16	2048		yes					accelerometer signal, HAM5, x

Channel List			ID	Fmt	Rate	DCU	Frame	FFT	Diag.	Description	
Sys.	Sub.	Name					full	analy.	trend	stim.	
LPM	::	PEM - ACC_HAM5_Y	40065	int16	2048		yes				accelerometer signal, HAM5, y
LPM	::	PEM - ACC_HAM5_Z	40066	int16	2048		yes				accelerometer signal, HAM5, z
LPM	::	PEM - ACC_HAM6_X	40067	int16	2048		yes				accelerometer signal, HAM6, x
LPM	::	PEM - ACC_HAM6_Y	40068	int16	2048		yes				accelerometer signal, HAM6, y
LPM	::	PEM - ACC_HAM6_Z	40069	int16	2048		yes				accelerometer signal, HAM6, z
LPM	::	PEM - ACC_PSL_X	40070	int16	2048		yes				accelerometer signal, PSL, x
LPM	::	PEM - ACC_PSL_Y	40071	int16	2048		yes				accelerometer signal, PSL, y
LPM	::	PEM - ACC_PSL_Z	40072	int16	2048		yes				accelerometer signal, PSL, z
LPM		PEM - MIC_BSC1	40124	int16	2048		yes				microphone, BSC1
LPM		PEM - MIC_BSC2	40125	int16	2048		yes				microphone, BSC2
LPM		PEM - MIC_BSC3	40126	int16	2048		yes				microphone, BSC3
LPM		PEM - MIC_BSC9	40127	int16	2048		yes				microphone, BSC9
LPM		PEM - MIC_BSC10	40128	int16	2048		yes				microphone, BSC10
LPM		PEM - MIC_HAM1	40129	int16	2048		yes				microphone, HAM1
LPM		PEM - MIC_HAM2	40130	int16	2048		yes				microphone, HAM2
LPM		PEM - MIC_HAM3	40131	int16	2048		yes				microphone, HAM3
LPM		PEM - MIC_HAM4	40132	int16	2048		yes				microphone, HAM4
LPM		PEM - MIC_HAM5	40133	int16	2048		yes				microphone, HAM5
LPM		PEM - MIC_HAM6	40134	int16	2048		yes				microphone, HAM6
LPM		PEM - MIC_PSL	60282	int16	2048		yes				microphone, PSL table
LPM		PEM - MAG_C_X	40171	int16	2048		yes				magnetometer, site, x direction
LPM		PEM - MAG_C_Y	40172	int16	2048		yes				magnetometer, site, y direction
LPM		PEM - MAG_C_Z	40173	int16	2048		yes				magnetometer, site, z direction
LPM		PEM - RFR_1	40174	int16	16384		yes				RF receiver, channel 1
LPM		PEM - RFR_2	40175	int16	16384		yes				RF receiver, channel 2
LPM		PEM - RFR_3	40176	int16	16384		yes				RF receiver, channel 3
LPM		PEM - RFR_4	40177	int16	16384		yes				RF receiver, channel 4
LPM		PEM - NB_RFR_1	40178	int16	16384		yes				narrow band RF receiver, 4km ifo
LPM		PEM - CPD_1	40180	int16		1 EPICS	yes				charged particle detector, unit 1
LPM		PEM - CPD_2	40181	int16		1 EPICS	yes				charged particle detector, unit 2
LPM		PEM - CPD_3	40182	int16		1 EPICS	yes				charged particle detector, unit 3
LPM		PEM - CPD_4	40183	int16		1 EPICS	yes				charged particle detector, unit 4
LPM		PEM - CPD_5	40184	int16		1 EPICS	yes				charged particle detector, unit 5
LPM		PEM - CPD_6	40185	int16		1 EPICS	yes				charged particle detector, unit 6
LPM		PEM - CPD_7	40186	int16		1 EPICS	yes				charged particle detector, unit 7
LPM		PEM - CPD_8	40187	int16		1 EPICS	yes				charged particle detector, unit 8
LPM		PEM - TEMP_C1	40188	int16		1 EPICS	yes				temperature sensor, corner station NE
LPM		PEM - TEMP_C2	40189	int16		1 EPICS	yes				temperature sensor, corner station SE
LPM		PEM - TEMP_C3	40190	int16		1 EPICS	yes				temperature sensor, corner station SW
LPM		PEM - TEMP_C4	40191	int16		1 EPICS	yes				temperature sensor, corner station NW
LPM		PEM - TEMP_EX1	40192	int16		1 EPICS	yes				temperature sensor, X end station NE
LPM		PEM - TEMP_EX2	40193	int16		1 EPICS	yes				temperature sensor, X end station SE
LPM		PEM - TEMP_EX3	40194	int16		1 EPICS	yes				temperature sensor, X end station SW

Channel List			ID	Fmt	Rate	DCU	Frame	FFT	Diag.	Description
Sys.	Sub.	Name					full	analy.	trend	stim.
LPM	PEM	TEMP_EX4	40195	int16	1	EPICS	yes			temperature sensor, X end station NW
LPM	PEM	TEMP_EY1	40196	int16	1	EPICS	yes			temperature sensor, Y end station NE
LPM	PEM	TEMP_EY2	40197	int16	1	EPICS	yes			temperature sensor, Y end station SE
LPM	PEM	TEMP_EY3	40198	int16	1	EPICS	yes			temperature sensor, Y end station SW
LPM	PEM	TEMP_EY4	40199	int16	1	EPICS	yes			temperature sensor, Y end station NW
LPM	PEM	TEMP_IN_C	40218	int16	1	EPICS	yes			weather monitor, inside temperature, corner station
LPM	PEM	TEMP_OUT_C	40219	int16	1	EPICS	yes			weather monitor, outside temperature, corner station
LPM	PEM	RH_IN_C	40220	int16	1	EPICS	yes			weather monitor, inside humidity, corner station
LPM	PEM	RH_OUT_C	40221	int16	1	EPICS	yes			weather monitor, outside humidity, corner station
LPM	PEM	WIND_DIR_C	40222	int16	1	EPICS	yes			weather monitor, wind direction, corner station
LPM	PEM	WIND_SPEED_C	40223	int16	1	EPICS	yes			weather monitor, wind speed, corner station
LPM	PEM	PRESSURE_C	40224	int16	1	EPICS	yes			weather monitor, barometric pressure, corner station
LPM	PEM	RAIN_C	40225	int16	1	EPICS	yes			weather monitor, rain fall, corner station
LPM	PEM	TEMP_IN_EX	40226	int16	1	EPICS	yes			weather monitor, inside temperature, X end station
LPM	PEM	TEMP_OUT_EX	40227	int16	1	EPICS	yes			weather monitor, outside temperature, X end station
LPM	PEM	RH_IN_EX	40228	int16	1	EPICS	yes			weather monitor, inside humidity, X end station
LPM	PEM	RH_OUT_EX	40229	int16	1	EPICS	yes			weather monitor, outside humidity, X end station
LPM	PEM	WIND_DIR_EX	40230	int16	1	EPICS	yes			weather monitor, wind direction, X end station
LPM	PEM	WIND_SPEED_EX	40231	int16	1	EPICS	yes			weather monitor, wind speed, X end station
LPM	PEM	PRESSURE_EX	40232	int16	1	EPICS	yes			weather monitor, barometric pressure, X end station
LPM	PEM	RAIN_EX	40233	int16	1	EPICS	yes			weather monitor, rain fall, X end station
LPM	PEM	TEMP_IN_EY	40234	int16	1	EPICS	yes			weather monitor, inside temperature, Y end station
LPM	PEM	TEMP_OUT_EY	40235	int16	1	EPICS	yes			weather monitor, outside temperature, Y end station
LPM	PEM	RH_IN_EY	40236	int16	1	EPICS	yes			weather monitor, inside humidity, Y end station
LPM	PEM	RH_OUT_EY	40237	int16	1	EPICS	yes			weather monitor, outside humidity, Y end station
LPM	PEM	WIND_DIR_EY	40238	int16	1	EPICS	yes			weather monitor, wind direction, Y end station
LPM	PEM	WIND_SPEED_EY	40239	int16	1	EPICS	yes			weather monitor, wind speed, Y end station
LPM	PEM	PRESSURE_EY	40240	int16	1	EPICS	yes			weather monitor, barometric pressure, Y end station
LPM	PEM	RAIN_EY	40241	int16	1	EPICS	yes			weather monitor, rain fall, Y end station
LPM	PEM	DUST_C1	40258	int16	1	EPICS	yes			dust particle monitor, corner station
LPM	PEM	DUST_C2	40259	int16	1	EPICS	yes			dust particle monitor, corner station
LPM	PEM	DUST_C3	40260	int16	1	EPICS	yes			dust particle monitor, corner station, optics lab
LPM	PEM	DUST_C4	40261	int16	1	EPICS	yes			dust particle monitor, corner station, vacuum prep
LPM	PEM	DUST_C5	40262	int16	1	EPICS	yes			dust particle monitor, corner station, clean room 1
LPM	PEM	DUST_C6	40263	int16	1	EPICS	yes			dust particle monitor, corner station, clean room 2
LPM	PEM	DUST_C8	40265	int16	1	EPICS	yes			dust particle monitor, corner station, PSL 4K
LPM	PEM	DUST_EX1	40267	int16	1	EPICS	yes			dust particle monitor, X end station
LPM	PEM	DUST_EX2	40268	int16	1	EPICS	yes			dust particle monitor, X end station, optics lab
LPM	PEM	DUST_EX3	40269	int16	1	EPICS	yes			dust particle monitor, X end station, clean room
LPM	PEM	DUST_EY1	40270	int16	1	EPICS	yes			dust particle monitor, Y end station
LPM	PEM	DUST_EY2	60543	int16	1	EPICS	yes			dust particle monitor, Y end station, optics lab
LPM	PEM	DUST_EY2	60543	int16	1	EPICS	yes			dust particle monitor, Y end station, clean room
LPM	PEM	MIC_CART_1	40279	int16	2048		yes			PEM cart microphone, unit 1

Channel List			ID	Fmt	Rate	DCU	Frame	FFT	Diag.	Description	
Sys.	Sub.	Name					full	analy.	trend	stim.	
LPM	PEM	- MIC_CART_2	40280	int16	2048		yes				PEM cart microphone, unit 2
LPM	PEM	- MAG_CART_X	40281	int16	2048		yes				PEM cart magnetometer, x directio
LPM	PEM	- MAG_CART_Y	40282	int16	2048		yes				PEM cart magnetometer, y direction
LPM	PEM	- MAG_CART_Z	40283	int16	2048		yes				PEM cart magnetometer, z direction
LPM	PEM	- TEMP_CART1	40284	int16	1	EPICS	yes				temperature sensor, cart, unit 1
LPM	PEM	- TEMP_CART2	40285	int16	1	EPICS	yes				temperature sensor, cart, unit 2
LPM	PEM	- TEMP_CART3	40286	int16	1	EPICS	yes				temperature sensor, cart, unit 3
LPM	PEM	- TEMP_CART4	40287	int16	1	EPICS	yes				temperature sensor, cart, unit 4
LPM	PEM	- TEMP_CART5	40288	int16	1	EPICS	yes				temperature sensor, cart, unit 5
LPM	PEM	- RH_CART1	40289	int16	1	EPICS	yes				humidity sensor, cart, unit 1
LPM	PEM	- RH_CART2	40290	int16	1	EPICS	yes				humidity sensor, cart, unit 2
LPM	PEM	- RH_CART3	40291	int16	1	EPICS	yes				humidity sensor, cart, unit 3
LPM	PEM	- RH_CART4	40292	int16	1	EPICS	yes				humidity sensor, cart, unit 4
LPM	PEM	- RH_CART5	40293	int16	1	EPICS	yes				humidity sensor, cart, unit 5
LPM	PEM	- SEI_STIM_PZT1	40294	int16	512		no			yes	PZT seismic excitation, ch 1
LPM	PEM	- SEI_STIM_PZT2	40295	int16	512		no			yes	PZT seismic excitation, ch 2
LPM	PEM	- SEI_STIM_PZT3	40296	int16	512		no			yes	PZT seismic excitation, ch 3
LPM	PEM	- SEI_STIM_PZT4	40297	int16	512		no			yes	PZT seismic excitation, ch 4
LPM	PEM	- SEI_STIM_PZT5	40298	int16	512		no			yes	PZT seismic excitation, ch 5
LPM	PEM	- SEI_STIM_PZT6	40299	int16	512		no			yes	PZT seismic excitation, ch 6
LPM	PEM	- SEI_STIM_PZT7	40300	int16	512		no			yes	PZT seismic excitation, ch 7
LPM	PEM	- SEI_STIM_PZT8	40301	int16	512		no			yes	PZT seismic excitation, ch 8
LPM	PEM	- SEI_STIM_PZT9	40302	int16	512		no			yes	PZT seismic excitation, ch 9
LPM	PEM	- SEI_STIM_PZT10	40303	int16	512		no			yes	PZT seismic excitation, ch 10
LPM	PEM	- SEI_STIM_PZT11	40304	int16	512		no			yes	PZT seismic excitation, ch 11
LPM	PEM	- SEI_STIM_PZT12	40305	int16	512		no			yes	PZT seismic excitation, ch 12
LPM	PEM	- SEI_STIM_EM1	40306	int16	2048		no			yes	electro-mag. seismic excitation, ch 1
LPM	PEM	- SEI_STIM_EM2	40307	int16	2048		no			yes	electro-mag. seismic excitation, ch 2
LPM	PEM	- SEI_STIM_EM3	40308	int16	2048		no			yes	electro-mag. seismic excitation, ch 3
LPM	PEM	- SEI_STIM_EM4	40309	int16	2048		no			yes	electro-mag. seismic excitation, ch 4
LPM	PEM	- ACOU_STIM2	40310	int16	16384		no			yes	acoustic noise generator stimulus, unit 2
LPM	PEM	- MAG_STIM_SM	40311	int16	2048		no			yes	magnetic field generator stim., small coil
LPM	PEM	- MAG_STIM_LG	40312	int16	2048		no			yes	magnetic field generator stim., large coil