

Table 1: List of LHO channels to be included in the RDS.

channel name	original sampling rate (Hz)	number of bytes per ADC sample	kbytes per second
LSC error channels:			
H1:LSC-AS_Q	16384	4	65.5
H1:LSC-AS_I	16384	4	65.5
H1:LSC-REFL_Q	16384	4	65.5
H1:LSC-REFL_I	16384	4	65.5
H1:LSC-POB_Q	16384	4	65.5
H1:LSC-POB_I	16384	4	65.5
H2:LSC-AS_Q	16384	4	65.5
H2:LSC-AS_I	16384	4	65.5
H2:LSC-REFL_Q	16384	4	65.5
H2:LSC-REFL_I	16384	4	65.5
H2:LSC-POB_Q	16384	4	65.5
H2:LSC-POB_I	16384	4	65.5
LSC error channels (DC):			
H1:LSC-AS_DC	16384	2	32.8
H1:LSC-REFL_DC	16384	2	32.8
H2:LSC-AS_DC	16384	2	32.8
H2:LSC-REFL_DC	16384	2	32.8
LSC control channels:			
H1:LSC-DARM_CTRL	16384	4	65.5
H2:LSC-DARM_CTRL	16384	4	65.5
ASC channels:			
H2:ASC-WFS1_QY	2048	4	8.2
H2:ASC-WFS1_QP	2048	4	8.2
H2:ASC-ETMX_Y	2048	2	4.1
H2:ASC-ETMX_P	2048	2	4.1
H2:ASC-ETMY_Y	2048	2	4.1
H2:ASC-ETMY_P	2048	2	4.1

Table 1: List of LHO channels to be included in the RDS (continued).

channel name	original sampling rate (Hz)	number of bytes per ADC sample	kbytes per second
H1:ASC-QPDX_DC	2048	4	8.2
H1:ASC-QPDY_DC	2048	4	8.2
H2:ASC-QPDX_DC	2048	4	8.2
H2:ASC-QPDY_DC	2048	4	8.2
Mode cleaner channels:			
H1:IOO-MC_F	16384	2	32.8
H2:IOO-MC_F	16384	2	32.8
Pre-stabilized laser channels:			
H2:PSL-FSS_RCTRANS_PD_F	256	2	0.5
H2:PSL-PMC_TRANS_PD_F	256	2	0.5

Table 1: List of LHO channels to be included in the RDS (continued).

channel name	original sampling rate (Hz)	number of bytes per ADC sample	kbytes per second
PEM channels:			
H0:PEM-LVEA_SEISX	256	2	0.5
H0:PEM-LVEA_SEISY	256	2	0.5
H0:PEM-LVEA_SEISZ	256	2	0.5
H0:PEM-MX_SEISX	256	2	0.5
H0:PEM-MX_SEISZ	256	2	0.5
H0:PEM-MY_SEISY	256	2	0.5
H0:PEM-MY_SEISZ	256	2	0.5
H0:PEM-EX_SEISX	256	2	0.5
H0:PEM-EX_SEISZ	256	2	0.5
H0:PEM-EY_SEISY	256	2	0.5
H0:PEM-EY_SEISZ	256	2	0.5
H0:PEM-PSL2_ACCX	2048	2	4.1
H0:PEM-BSC4_ACCX	2048	2	4.1
H0:PEM-BSC4_ACCY	2048	2	4.1
H0:PEM-BSC5_ACCX	2048	2	4.1
H0:PEM-BSC6_ACCY	2048	2	4.1
H0:PEM-BSC7_ACCX	2048	2	4.1
H0:PEM-BSC7_ACCY	2048	2	4.1
H0:PEM-BSC8_ACCX	2048	2	4.1
H0:PEM-BSC8_ACCY	2048	2	4.1
H0:PEM-BSC9_ACC1X	2048	2	4.1
H0:PEM-BSC10_ACC1Y	2048	2	4.1
H0:PEM-HAM9_ACCX	2048	2	4.1

Table 1: List of LHO channels to be included in the RDS (continued).

channel name	original sampling rate (Hz)	number of bytes per ADC sample	kbytes per second
H0:PEM-PSL2_MIC	2048	2	4.1
H1:PSL-ISS_MC1_F ^a	16384	2	32.8
H0:PEM-BSC5_MIC	2048	2	4.1
H0:PEM-BSC6_MIC	2048	2	4.1
H0:PEM-BSC9_MIC	2048	2	4.1
H0:PEM-BSC10_MIC	2048	2	4.1
H0:PEM-BSC1_MAG1Y	2048	2	4.1
H0:PEM-BSC9_MAGX	2048	2	4.1
H0:PEM-BSC10_MAGY	2048	2	4.1
H0:PEM-COIL_MAGZ	2048	2	4.1
H0:PEM-LVEA2_V1	2048	2	4.1
H0:PEM-LVEA2_V3	2048	2	4.1
H0:PEM-MX_V1	2048	2	4.1
H0:PEM-MY_V2	2048	2	4.1
H0:PEM-EX_V1	2048	2	4.1
H0:PEM-EY_V2	2048	2	4.1
Slow channels:			
H0:PEM-LVEA_BPO5	16	4	0.1
H0:PEM-LVEA_RAIN	16	4	0.1
H0:PEM-LVEA_TEMPO5	16	4	0.1
H0:PEM-LVEA_WDIR	16	4	0.1
H0:PEM-LVEA_WIND	16	4	0.1

^a According to R. Schofield, this was a misnamed MIC channel located in the 4k PSL enclosure.

Table 1: List of LHO channels to be included in the RDS (continued).

channel name	original sampling rate (Hz)	number of bytes per ADC sample	kbytes per second
H1:PSL-126MOPA_DMON	16	4	0.1
H1:PSL-126MOPA_DTEC	16	4	0.1
H1:PSL-126MOPA_DTMP	16	4	0.1
H1:PSL-126MOPA_HTEMP	16	4	0.1
H1:PSL-126MOPA_LMON	16	4	0.1
H1:PSL-126MOPA_LTEC	16	4	0.1
H1:PSL-126MOPA_LTMP	16	4	0.1
H1:PSL-FSS_FAST	16	4	0.1
H1:PSL-FSS_RCTEMP	16	4	0.1
H1:PSL-FSS_RMTEMP	16	4	0.1
H2:PSL-126MOPA_DMON	16	4	0.1
H2:PSL-126MOPA_DTEC	16	4	0.1
H2:PSL-126MOPA_DTMP	16	4	0.1
H2:PSL-126MOPA_HTEMP	16	4	0.1
H2:PSL-126MOPA_LMON	16	4	0.1
H2:PSL-126MOPA_LTEC	16	4	0.1
H2:PSL-126MOPA_LTMP	16	4	0.1
H2:PSL-FSS_FAST	16	4	0.1
H2:PSL-FSS_RCTEMP	16	4	0.1
H2:PSL-FSS_RMTEMP	16	4	0.1
H1:ASC-ETMX_QPDXPitch	16	4	0.1
H1:ASC-ETMX_QPDXYaw	16	4	0.1
H2:ASC-ETMX_OptLevPitch	16	4	0.1
H2:ASC-ETMX_OptLevYaw	16	4	0.1
H2:ASC-ETMY_OptLevPitch	16	4	0.1
H2:ASC-ETMY_OptLevYaw	16	4	0.1
H2:ASC-ITMX_OptLevPitch	16	4	0.1
H2:ASC-ITMX_OptLevYaw	16	4	0.1
H2:ASC-ITMY_OptLevPitch	16	4	0.1
H2:ASC-ITMY_OptLevYaw	16	4	0.1
Total number of kbytes per second:			1, 332.9

Table 2: List of LLO channels to be included in the RDS.

channel name	original sampling rate (Hz)	number of bytes per ADC sample	kbytes per second
LSC error channels:			
L1:LSC-AS_Q	16384	4	65.5
L1:LSC-AS_I	16384	4	65.5
L1:LSC-REFL_Q	16384	4	65.5
L1:LSC-REFL_I	16384	4	65.5
L1:LSC-POB_Q	16384	4	65.5
L1:LSC-POB_I	16384	4	65.5
LSC error channels (DC):			
L1:LSC-AS_DC	256	2	0.5
L1:LSC-REFL_DC	256	2	0.5
LSC control channel:			
L1:LSC-DARM_CTRL	16384	4	65.5
ASC channels:			
L1:ASC-QPDX_DC	2048	4	8.2
L1:ASC-QPDY_DC	2048	4	8.2

Table 2: List of LLO channels to be included in the RDS (continued).

channel name	original sampling rate (Hz)	number of bytes per ADC sample	kbytes per second
L1:ASC-ITMX_OPLEV_YERROR	2048	4	8.2
L1:ASC-ITMX_OPLEV_PERROR	2048	4	8.2
L1:ASC-ITMY_OPLEV_YERROR	2048	4	8.2
L1:ASC-ITMY_OPLEV_PERROR	2048	4	8.2
L1:ASC-ETMX_OPLEV_YERROR	2048	4	8.2
L1:ASC-ETMX_OPLEV_PERROR	2048	4	8.2
L1:ASC-ETMY_OPLEV_YERROR	2048	4	8.2
L1:ASC-ETMY_OPLEV_PERROR	2048	4	8.2
L1:ASC-BS_OPLEV_YERROR	2048	4	8.2
L1:ASC-BS_OPLEV_PERROR	2048	4	8.2
L1:ASC-RM_OPLEV_YERROR	2048	4	8.2
L1:ASC-RM_OPLEV_PERROR	2048	4	8.2
L1:ASC-MMT3_OPLEV_YERROR	2048	4	8.2
L1:ASC-MMT3_OPLEV_PERROR	2048	4	8.2
Mode cleaner channel:			
L1:IOO-MC_F	16384	2	32.8
Pre-stabilized laser channels:			
L1:PSL-FSS_RCTRANS_PD_F	256	2	0.5
L1:PSL-PMC_TRANS_PD_F	256	2	0.5

Table 2: List of LLO channels to be included in the RDS (continued).

channel name	original sampling rate (Hz)	number of bytes per ADC sample	kbytes per second
PEM channels:			
L0:PEM-LVEA_SEISX	256	2	0.5
L0:PEM-LVEA_SEISY	256	2	0.5
L0:PEM-LVEA_SEISZ	256	2	0.5
L0:PEM-EX_SEISX	256	2	0.5
L0:PEM-EX_SEISZ	256	2	0.5
L0:PEM-EY_SEISY	256	2	0.5
L0:PEM-EY_SEISZ	256	2	0.5
L0:PEM-PSL1_ACCX	2048	2	4.1
L0:PEM-BSC1_ACCY	2048	2	4.1
L0:PEM-BSC2_ACCX	2048	2	4.1
L0:PEM-BSC2_ACCY	2048	2	4.1
L0:PEM-BSC3_ACCX	2048	2	4.1
L0:PEM-BSC4_ACCX	2048	2	4.1
L0:PEM-BSC5_ACCX	2048	2	4.1
L0:PEM-HAM3_ACCX	2048	2	4.1
L0:PEM-PSL1_MIC	2048	2	4.1
L0:PEM-BSC2_MIC	2048	2	4.1
L0:PEM-BSC5_MIC	2048	2	4.1
L0:PEM-LVEA_MAG1X	2048	2	4.1
L0:PEM-LVEA_MAG1Y	2048	2	4.1
L0:PEM-LVEA_MAG1Z	2048	2	4.1
L0:PEM-EX_MAG1X	2048	2	4.1
L0:PEM-EY_MAG1X	2048	2	4.1
L1:GDS-EY_TO2	2048	2	4.1

Table 2: List of LLO channels to be included in the RDS (continued).

channel name	original sampling rate (Hz)	number of bytes per ADC sample	kbytes per second
L0:PEM-LVEA_V1	2048	2	4.1
L0:PEM-LVEA_V3	2048	2	4.1
L0:PEM-EX_V1	2048	2	4.1
L0:PEM-EX_V2	2048	2	4.1
Slow channels:			
L0:PEM-LVEA_AirTmp	16	4	0.1
L0:PEM-LVEA_BP5	16	4	0.1
L0:PEM-LVEA_Wind	16	4	0.1
L0:PEM-LVEA_WDir	16	4	0.1
L0:PEM-LVEA_Rain	16	4	0.1
L1:PSL-FSS_FAST	16	4	0.1
L1:PSL-FSS_RMTEMP	16	4	0.1
L1:PSL-FSS_RCTEMP	16	4	0.1
L1:PSL-126MOPA_LMON	16	4	0.1
L1:PSL-126MOPA_DMON	16	4	0.1
L1:PSL-126MOPA_HTEMP	16	4	0.1
L1:ASC-ETMX_OptLevPitch	16	4	0.1
L1:ASC-ETMX_OptLevYaw	16	4	0.1
L1:ASC-ETMY_OptLevPitch	16	4	0.1
L1:ASC-ETMY_OptLevYaw	16	4	0.1
L1:ASC-ITMX_OptLevPitch	16	4	0.1
L1:ASC-ITMX_OptLevYaw	16	4	0.1
L1:ASC-ITMY_OptLevPitch	16	4	0.1
L1:ASC-ITMY_OptLevYaw	16	4	0.1
Total number of kbytes per second:			716.0