

This document includes the operating mode data for the Hanford, WA and Livingston, LA LIGO sites during the first Advanced LIGO observing run.

The Hanford, WA data is from

[https://ldas-jobs.ligo.caltech.edu/~detchar/summary/1126623617-1136649617/time\\_accounting/lho/](https://ldas-jobs.ligo.caltech.edu/~detchar/summary/1126623617-1136649617/time_accounting/lho/)

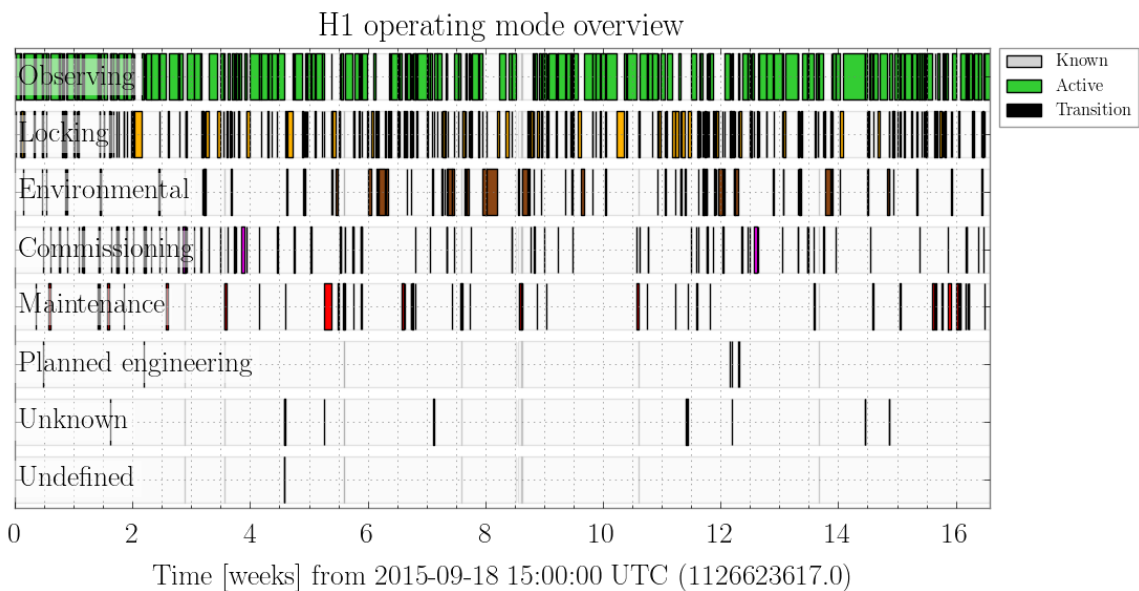
The Livingston, LA data is from

[https://ldas-jobs.ligo.caltech.edu/~detchar/summary/1126623617-1136649617/time\\_accounting/llo/](https://ldas-jobs.ligo.caltech.edu/~detchar/summary/1126623617-1136649617/time_accounting/llo/)

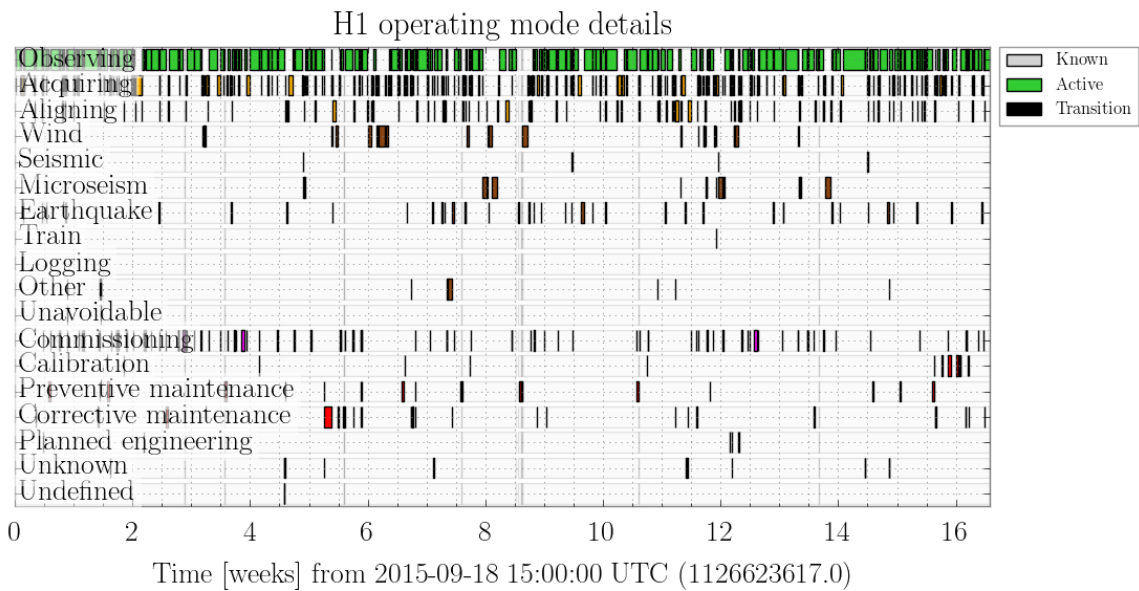
This document has LIGO document number T1600467.

For the LIGO-Virgo Collaboration.

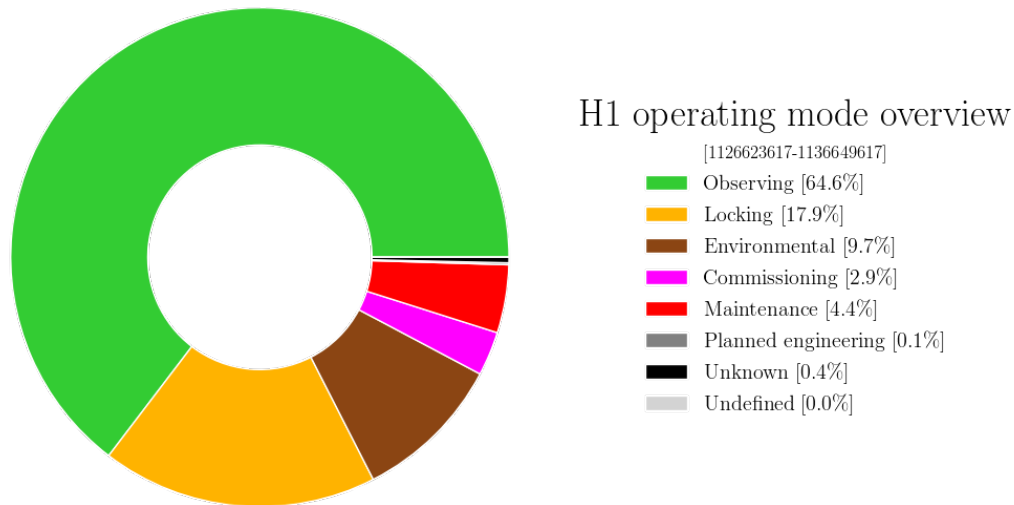
# Time accounting : O1 LHO Operating mode



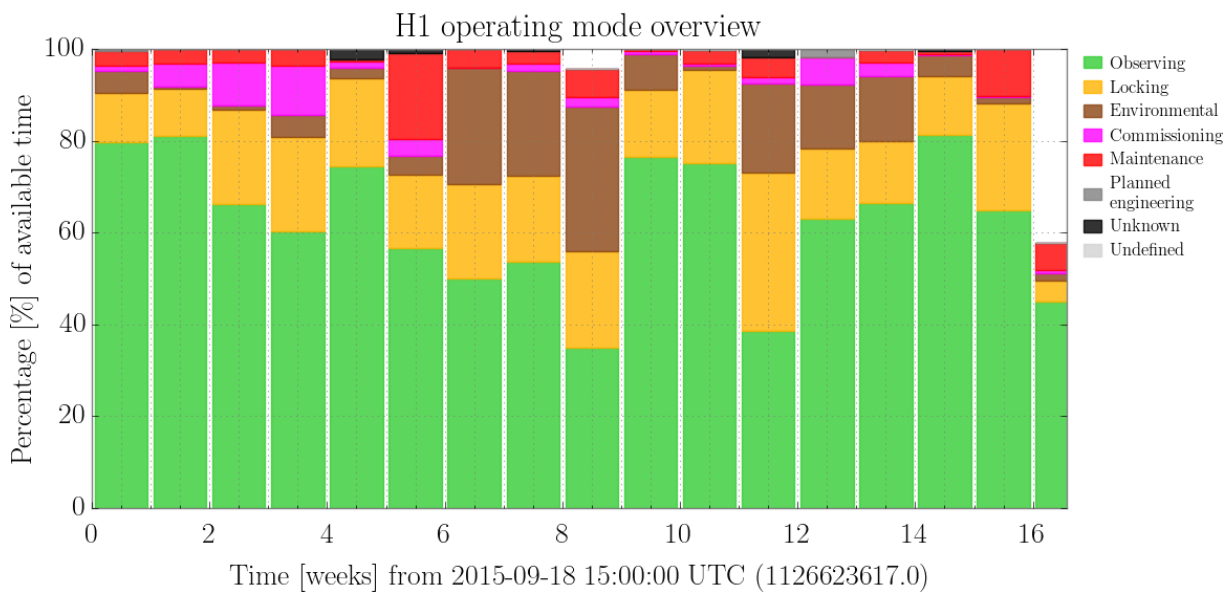
(1126623617-1136649617/plots/H1-ODC\_OBSERVATORY\_MODE\_SEGMENTS\_OVERVIEW-1126623617-10026000.png)



(1126623617-1136649617/plots/H1-ODC\_OBSERVATORY\_MODE\_SEGMENTS\_DETAILS-1126623617-10026000.png)



(1126623617-1136649617/plots/H1-ODC\_OBSERVATORY\_MODE\_PIE\_OVERVIEW-1126623617-10026000.png)



(1126623617-1136649617/plots/H1-ODC\_OBSERVATORY\_MODE\_SEGMENT\_BAR\_OVERVIEW-1126623617-10026000.png)

## Top-level mode information

The following modes were defined for the above data and were active as given:

Index	Name	Active seconds	Hours	%
10	Observing	6459899.1	1794.4	64.4
20	Locking	1789008.4	496.9	17.8

Index	Name	Active seconds	Hours	%
30	Environmental	972602.1	270.2	9.7
40	Commissioning	285708.6	79.4	2.8
50	Maintenance	440622.8	122.4	4.4
60	Planned engineering	12440.5	3.5	0.1
70	Unknown	35510.4	9.9	0.4
0	Undefined	0.1	0.0	0.0
	<b>Total:</b>	<b>9995792.0</b>	<b>2776.6</b>	<b>99.7</b>

## Detailed mode information

The following modes were defined for the above data and were active as given:

Index	Name	Active seconds	Hours	%
10	Observing	6459899.1	1794.4	64.4
21	Acquiring	1316872.0	365.8	13.1
22	Aligning	472136.4	131.1	4.7
31	Wind	391943.1	108.9	3.9
32	Seismic	6876.6	1.9	0.1
33	Microseism	249605.9	69.3	2.5
34	Earthquake	262002.2	72.8	2.6
35	Train	2084.6	0.6	0.0
36	Logging	0.0	0.0	0.0
37	Other	52517.6	14.6	0.5
38	Unavoidable	7572.0	2.1	0.1
40	Commissioning	285708.6	79.4	2.8
51	Calibration	72083.4	20.0	0.7
52	Preventive maintenance	176613.6	49.1	1.8
53	Corrective maintenance	191925.8	53.3	1.9
60	Planned engineering	12440.5	3.5	0.1
70	Unknown	35510.4	9.9	0.4
0	Undefined	0.1	0.0	0.0
	<b>Total:</b>	<b>9995792.0</b>	<b>2776.6</b>	<b>99.7</b>

# Comments

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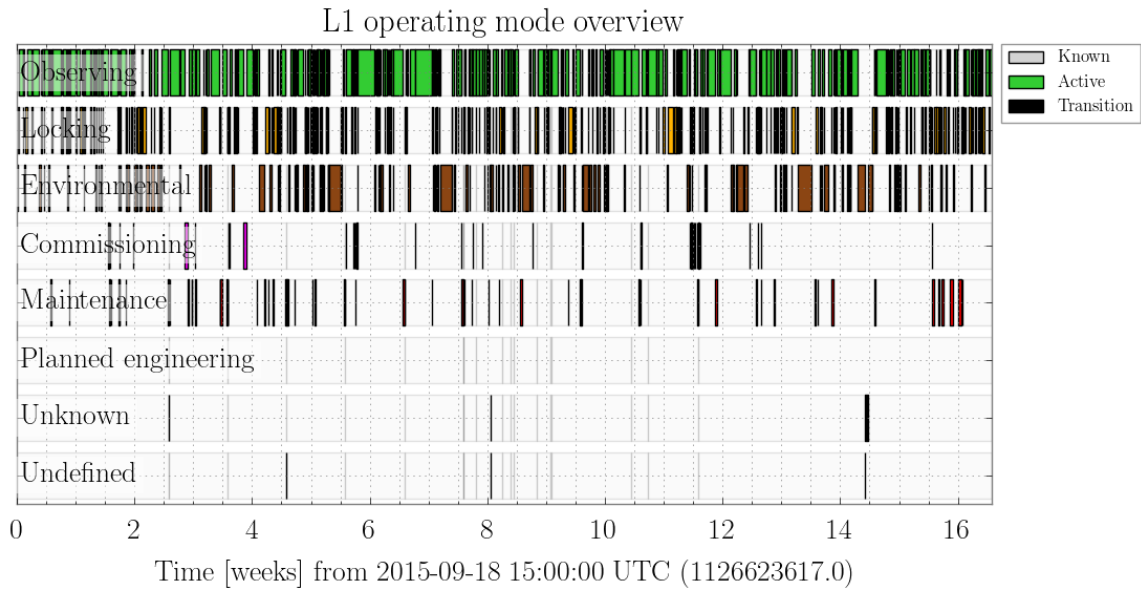
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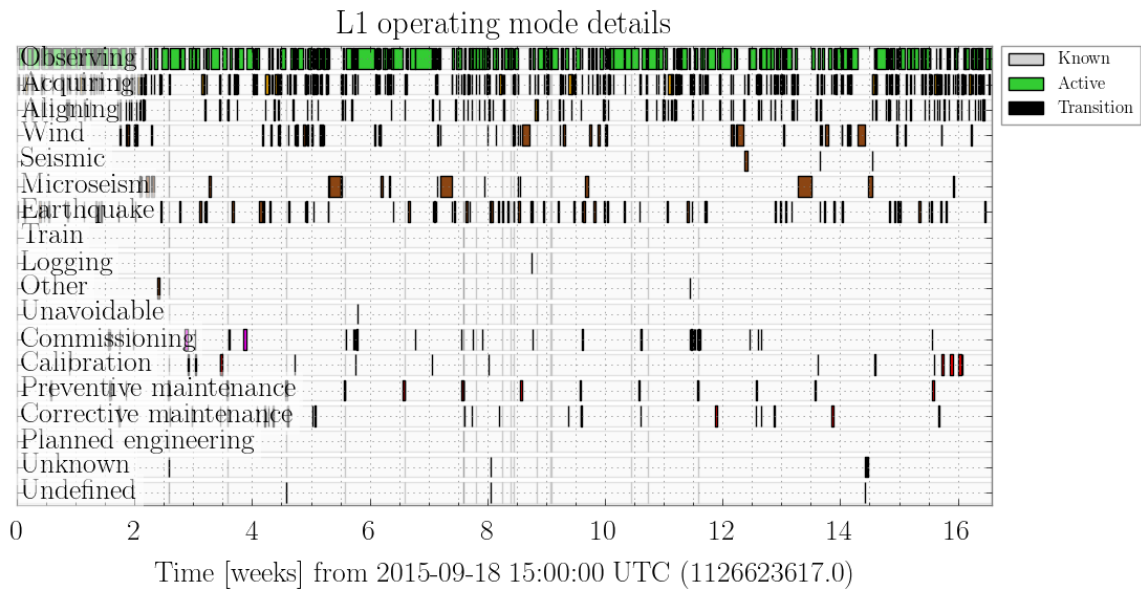
Report an issue (<https://github.com/gwpy/gwsumm/issues>)

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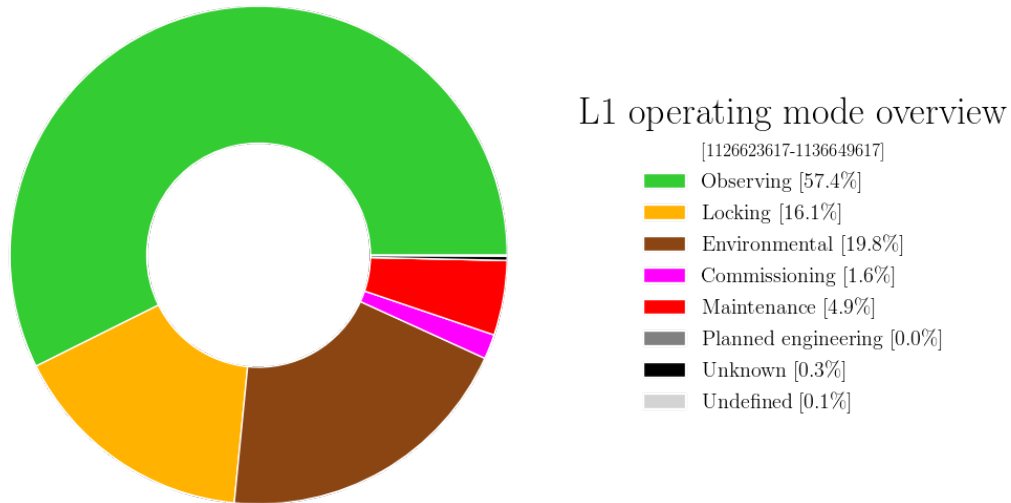
# Time accounting : O1 LLO Operating mode



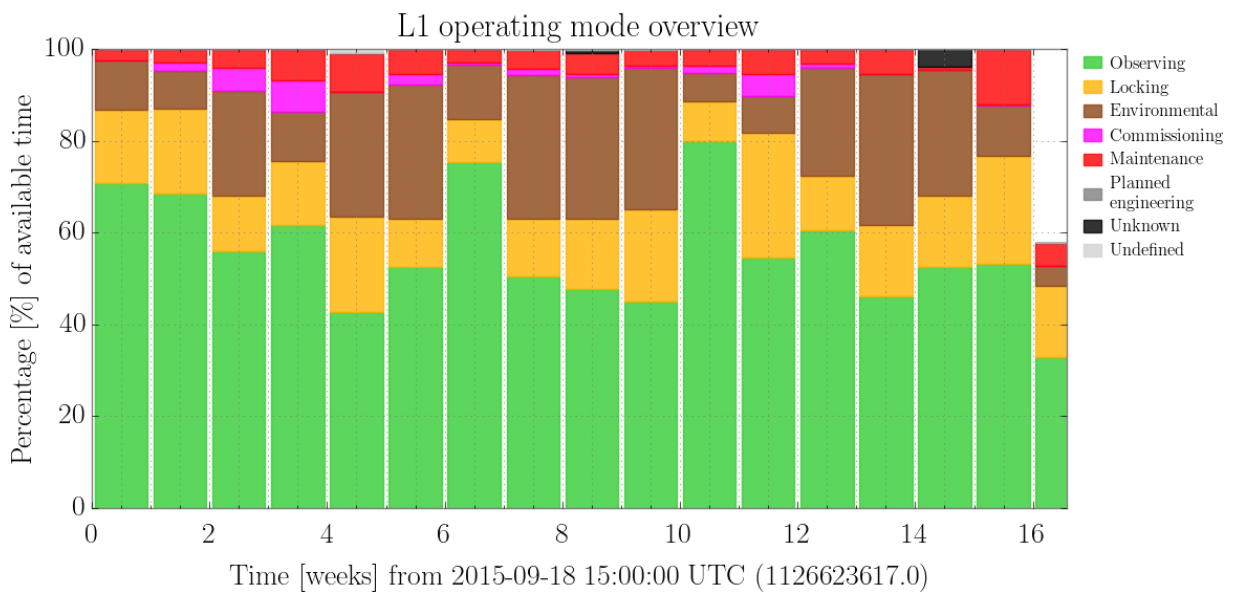
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(1126623617-1136649617/plots/L1-ODC\_OBSERVATORY\_MODE\_SEGMENTS\_DETAILS-1126623617-10026000.png)



(1126623617-1136649617/plots/L1-ODC\_OBSERVATORY\_MODE\_PIE\_OVERVIEW-1126623617-10026000.png)



(1126623617-1136649617/plots/L1-ODC\_OBSERVATORY\_MODE\_SEGMENT\_BAR\_OVERVIEW-1126623617-10026000.png)

## Top-level mode information

The following modes were defined for the above data and were active as given:

Index	Name	Active seconds	Hours	%
10	Observing	5747058.7	1596.4	57.3
20	Locking	1611399.5	447.6	16.1

Index	Name	Active seconds	Hours	%
30	Environmental	1980408.2	550.1	19.8
40	Commissioning	160976.6	44.7	1.6
50	Maintenance	486495.4	135.1	4.9
60	Planned engineering	0.0	0.0	0.0
70	Unknown	27781.5	7.7	0.3
0	Undefined	5992.1	1.7	0.1
	<b>Total:</b>	<b>10020112.0</b>	<b>2783.4</b>	<b>99.9</b>

## Detailed mode information

The following modes were defined for the above data and were active as given:

Index	Name	Active seconds	Hours	%
10	Observing	5747058.7	1596.4	57.3
21	Acquiring	1325171.5	368.1	13.2
22	Aligning	286228.0	79.5	2.9
31	Wind	649084.2	180.3	6.5
32	Seismic	34082.8	9.5	0.3
33	Microseism	576719.0	160.2	5.8
34	Earthquake	692600.6	192.4	6.9
35	Train	0.0	0.0	0.0
36	Logging	3.5	0.0	0.0
37	Other	22599.5	6.3	0.2
38	Unavoidable	5318.6	1.5	0.1
40	Commissioning	160976.6	44.7	1.6
51	Calibration	135849.6	37.7	1.4
52	Preventive maintenance	230779.2	64.1	2.3
53	Corrective maintenance	119866.5	33.3	1.2
60	Planned engineering	0.0	0.0	0.0
70	Unknown	27781.5	7.7	0.3
0	Undefined	5992.1	1.7	0.1
	<b>Total:</b>	<b>10020112.0</b>	<b>2783.4</b>	<b>99.9</b>



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