



LIGO: Status, Results from the First Science Run, and Plans

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(On behalf of the LIGO Scientific Collaboration)

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ELECTRONIC
COPY



The LIGO Laboratory Sites

Interferometers are aligned along the great circle connecting the sites

Hanford, WA (4 km (H1) + 2 km (H2))





LIGO Observatories

GEODETIC DATA (WGS84)

h: -6.574 m

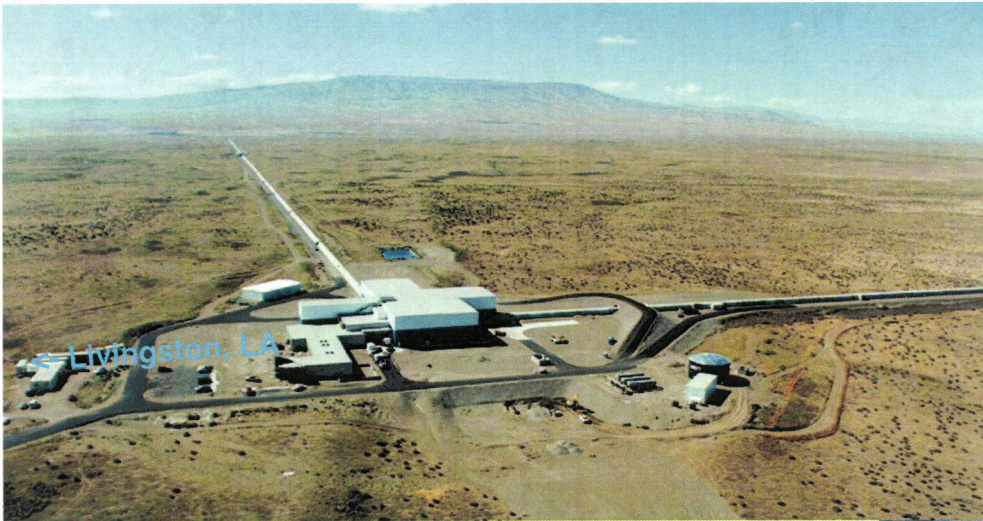
X arm: S72.2836°W

φ: N30°33'46.419531"

Y arm: S17.7164°E

λ: W90°46'27.265294"

Livingston Observatory
Louisiana
One interferometer (4km)



Hanford Observatory
Washington
Two interferometers
(4 km and 2 km arms)

GEODETIC DATA (WGS84)

h: 142.555 m

X arm: N35.9993°W

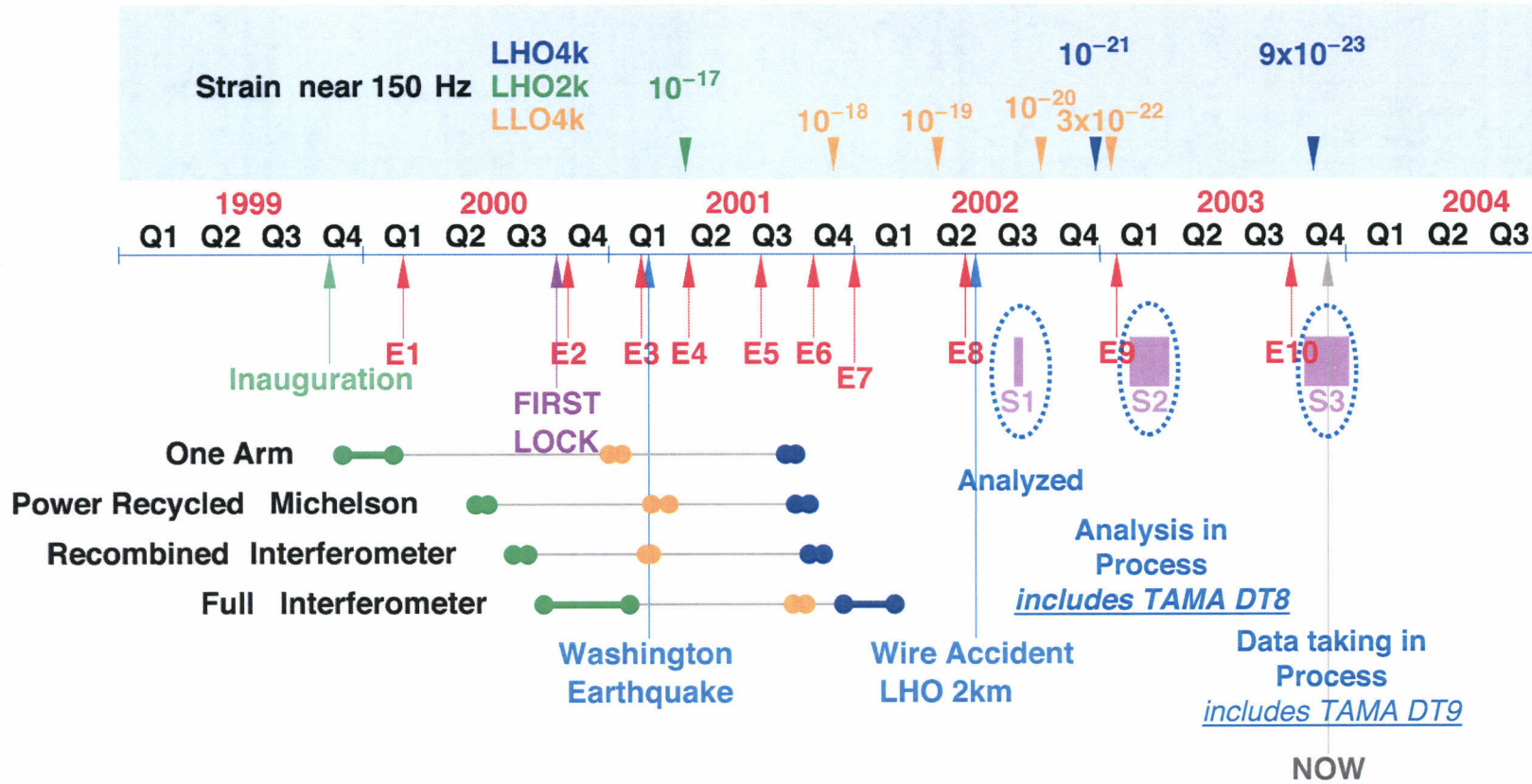
φ: N46°27'18.527841"

Y arm: S54.0007°W

λ: W119°24'27.565681"



LIGO Commissioning and Science Timeline





Sensitivity during S1

- During S1 the 3 LIGO interferometers offered the opportunity for the most sensitive coincidence observations ever made in the low frequency band around a few hundred Hertz

Strain Sensivities for the LIGO Interferometers for S1

23 August 2002 - 09 September 2002 LIGO-G020461-00-E

