

**Ambient Ground Vibration Measurements  
at the Hanford, Washington LIGO Site**

**Appendix G**

LIGO-C950579-00-□

**LIGO Site Construction Noise Plots**

## Construction Activity Plots

### LIGO Construction at 4 km Recorded at Northwest End

Vertical Acceleration Spectrogram

Vertical Component Spectra

segment 1

segment 2

segment 3

segment 4

Northwest Component Spectra

segment 1

segment 2

segment 3

segment 4

Southwest Component Spectra

segment 1

segment 2

segment 3

segment 4

Vertical Component Histograms

segment 1

segment 2

segment 3

segment 4

Northwest Component Histograms

segment 1

segment 2

segment 3

segment 4

Southwest Component Histograms

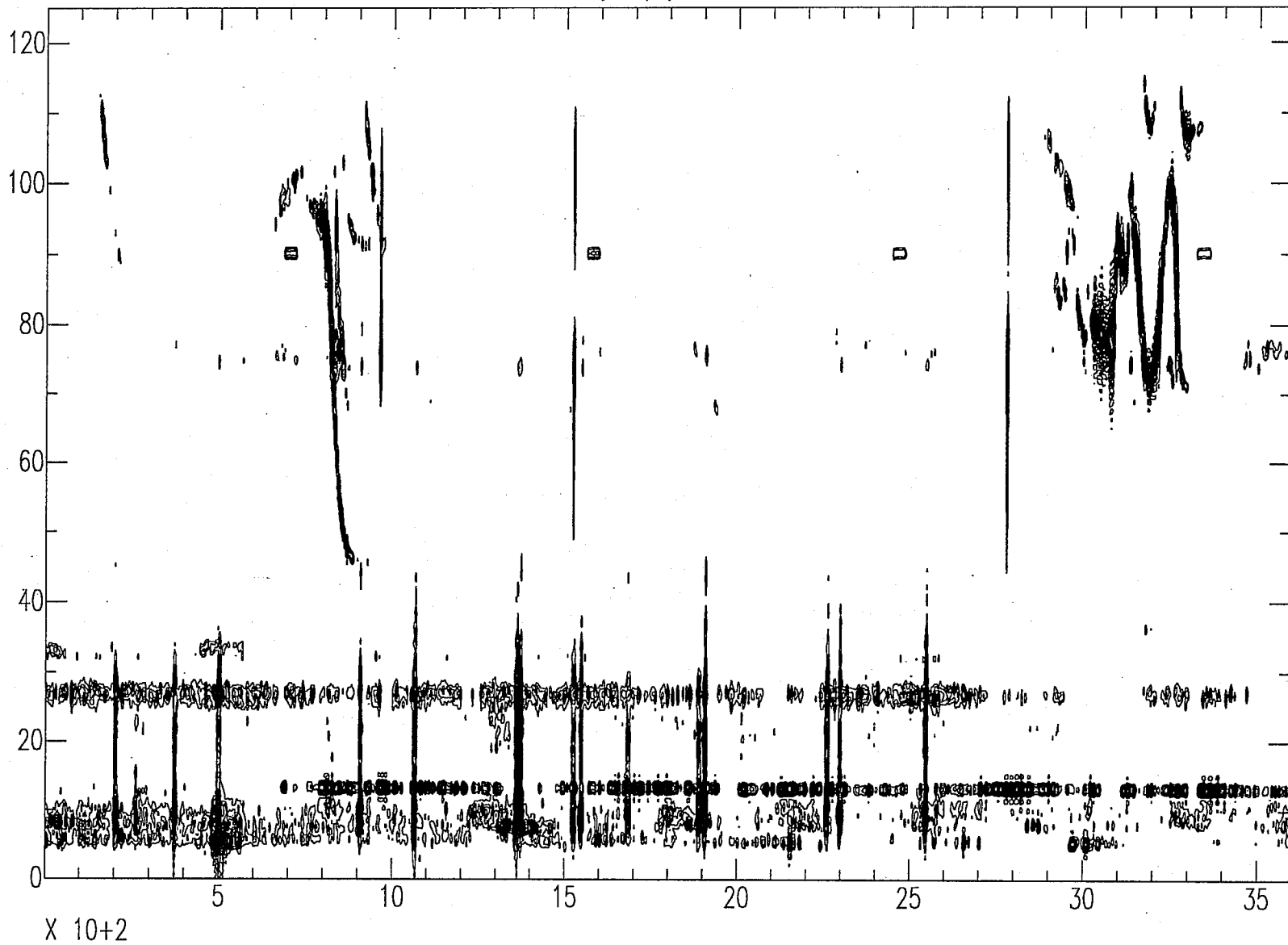
segment 1

segment 2

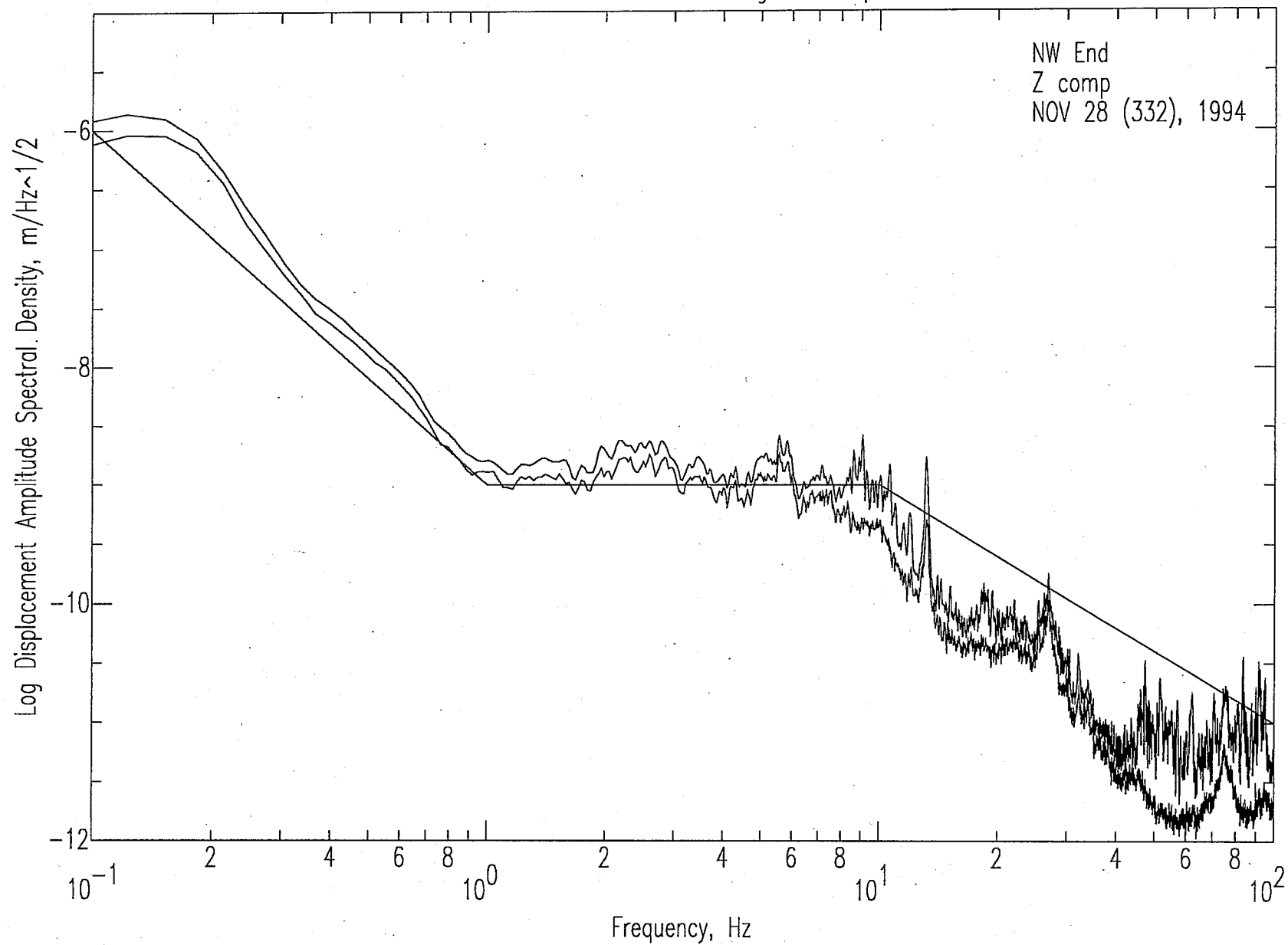
segment 3

segment 4

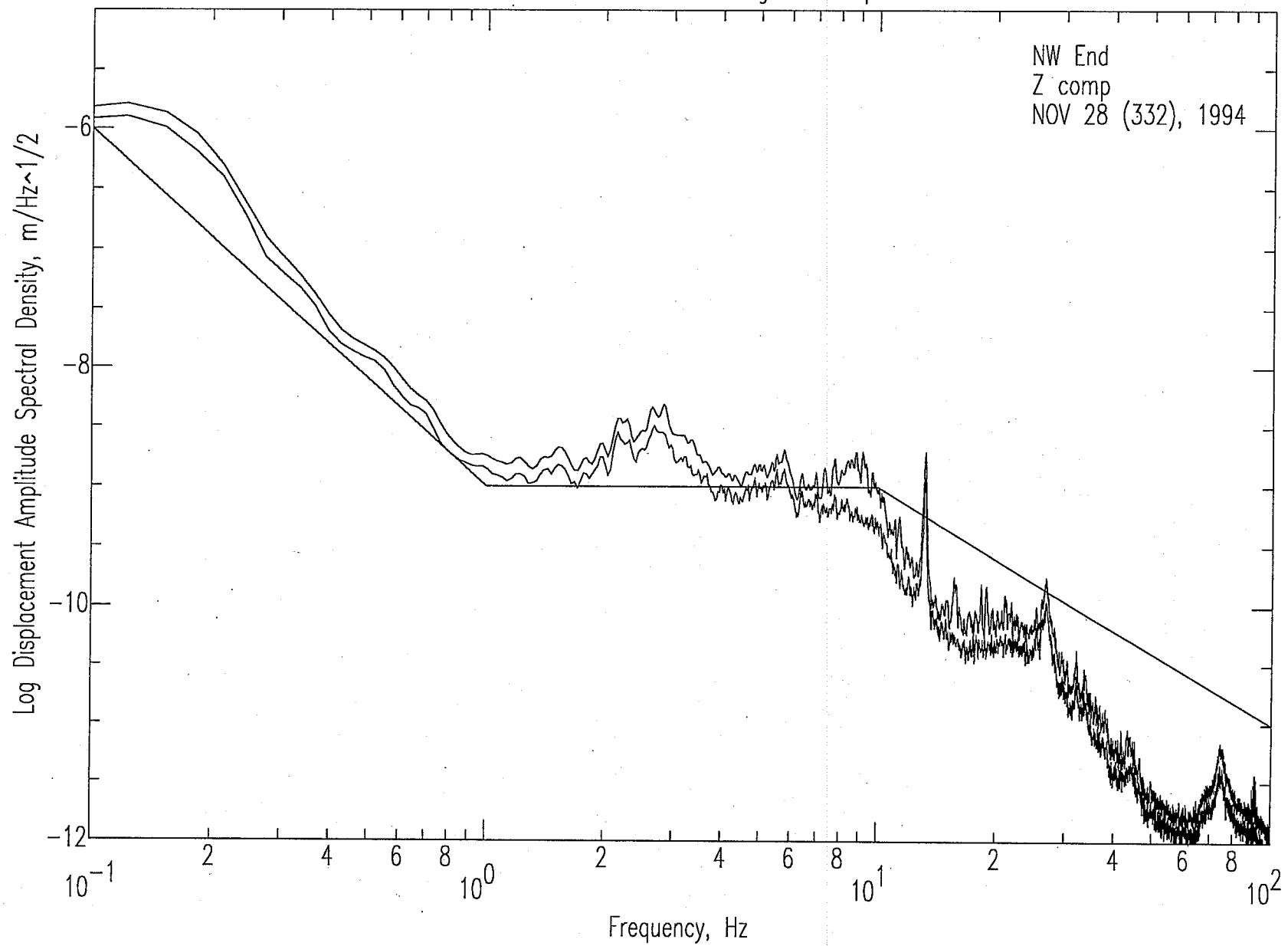
LIGO NW end, Heavy equipment at Corner - 4 km



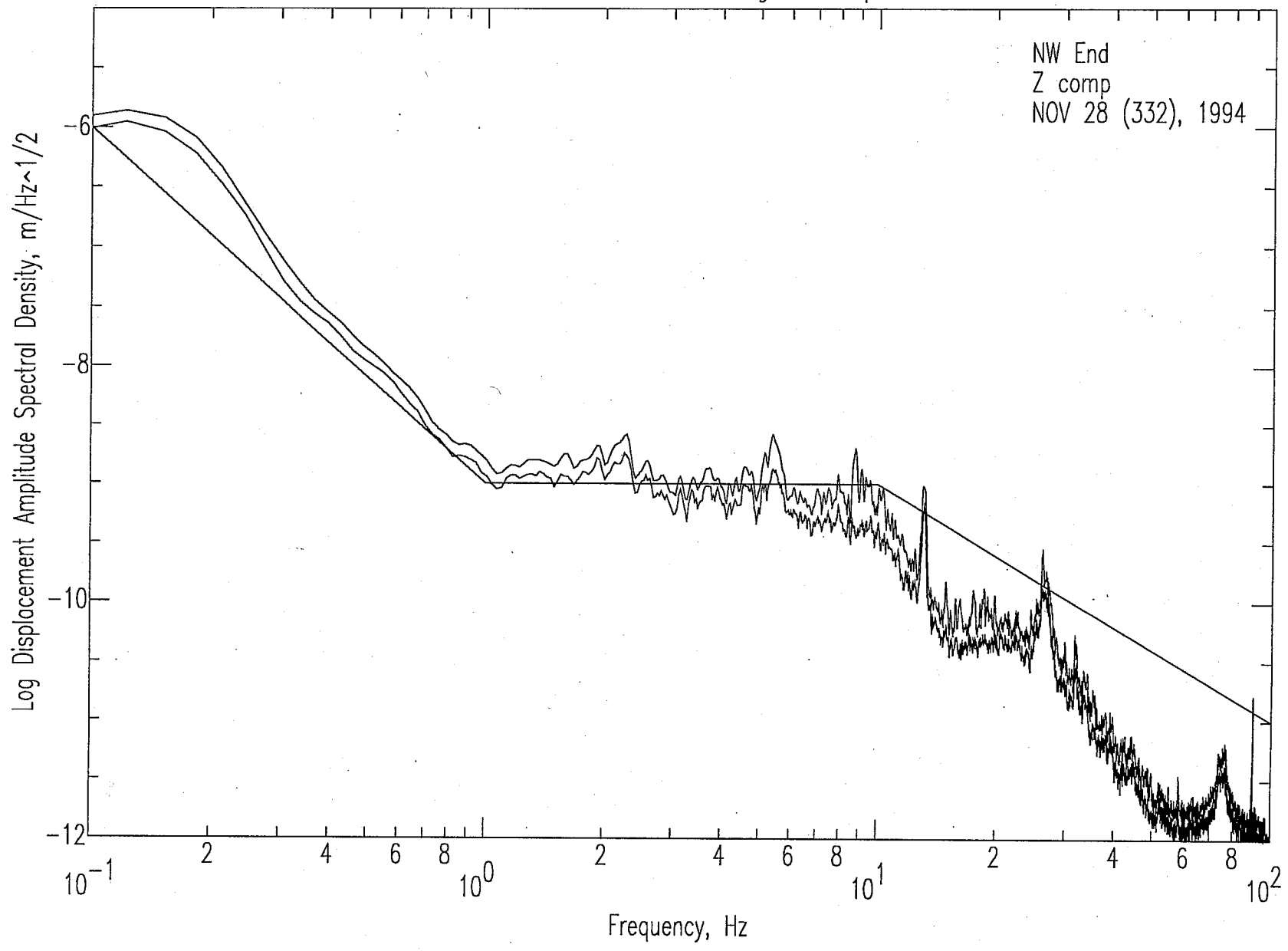
## LIGO Construction at 4 km seg1.1.sac Spectra



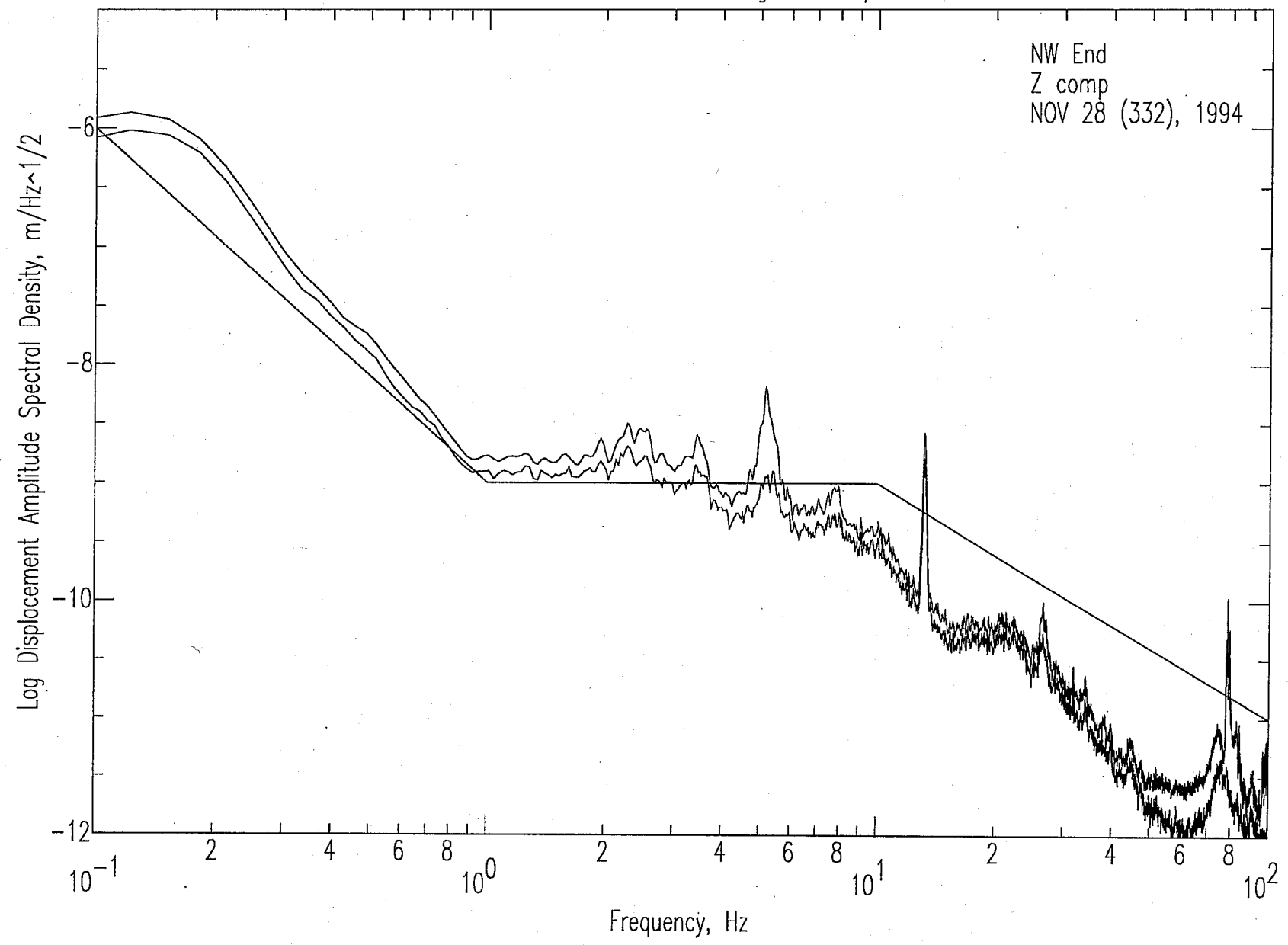
## LIGO Construction at 4 km seg2.1.sac Spectra



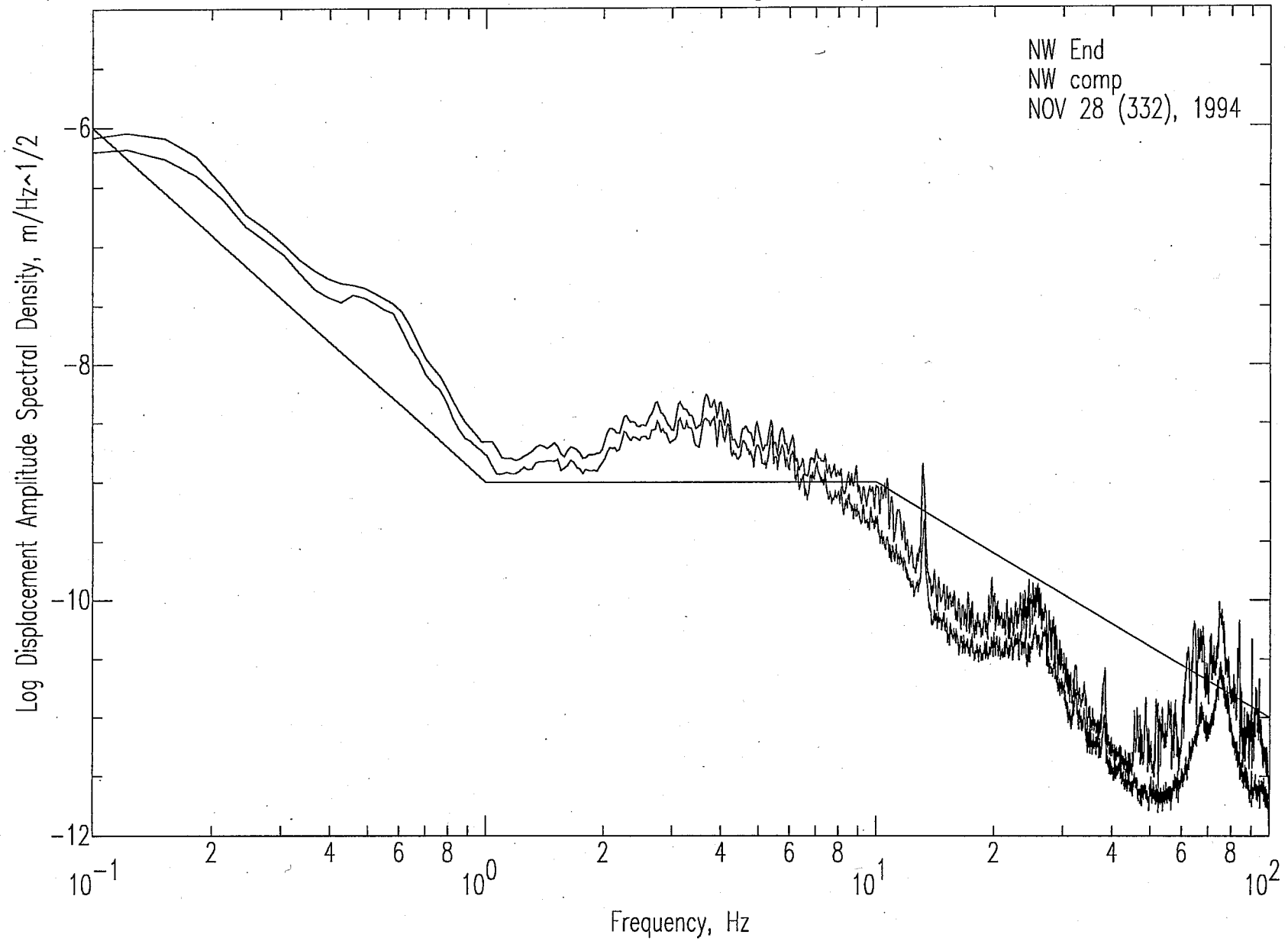
LIGO Construction at 4 km seg3.1.sac Spectra



LIGO Construction at 4 km seg4.1.sac Spectra

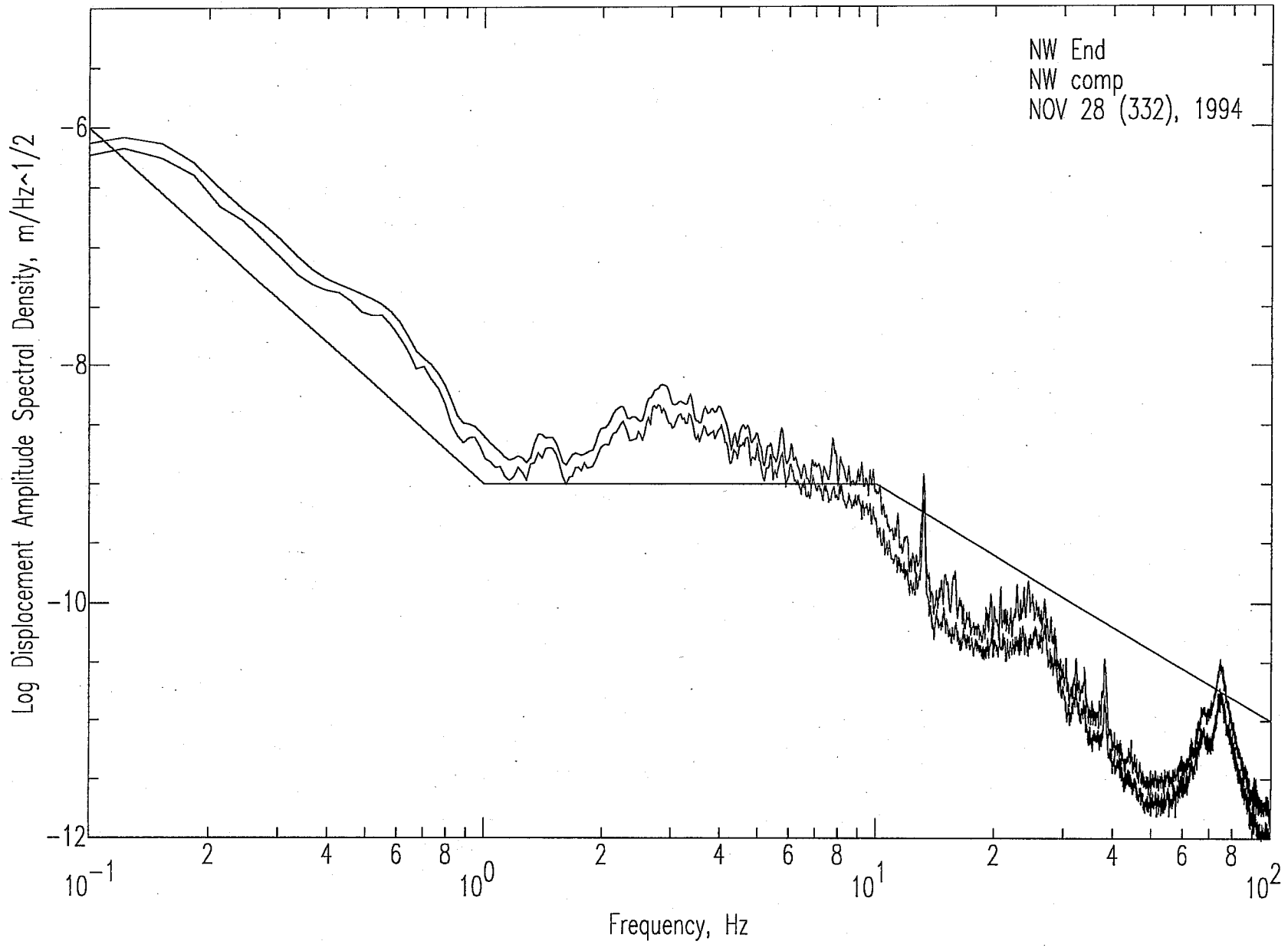


## LIGO Construction at 4 km seg1.2.sac Spectra

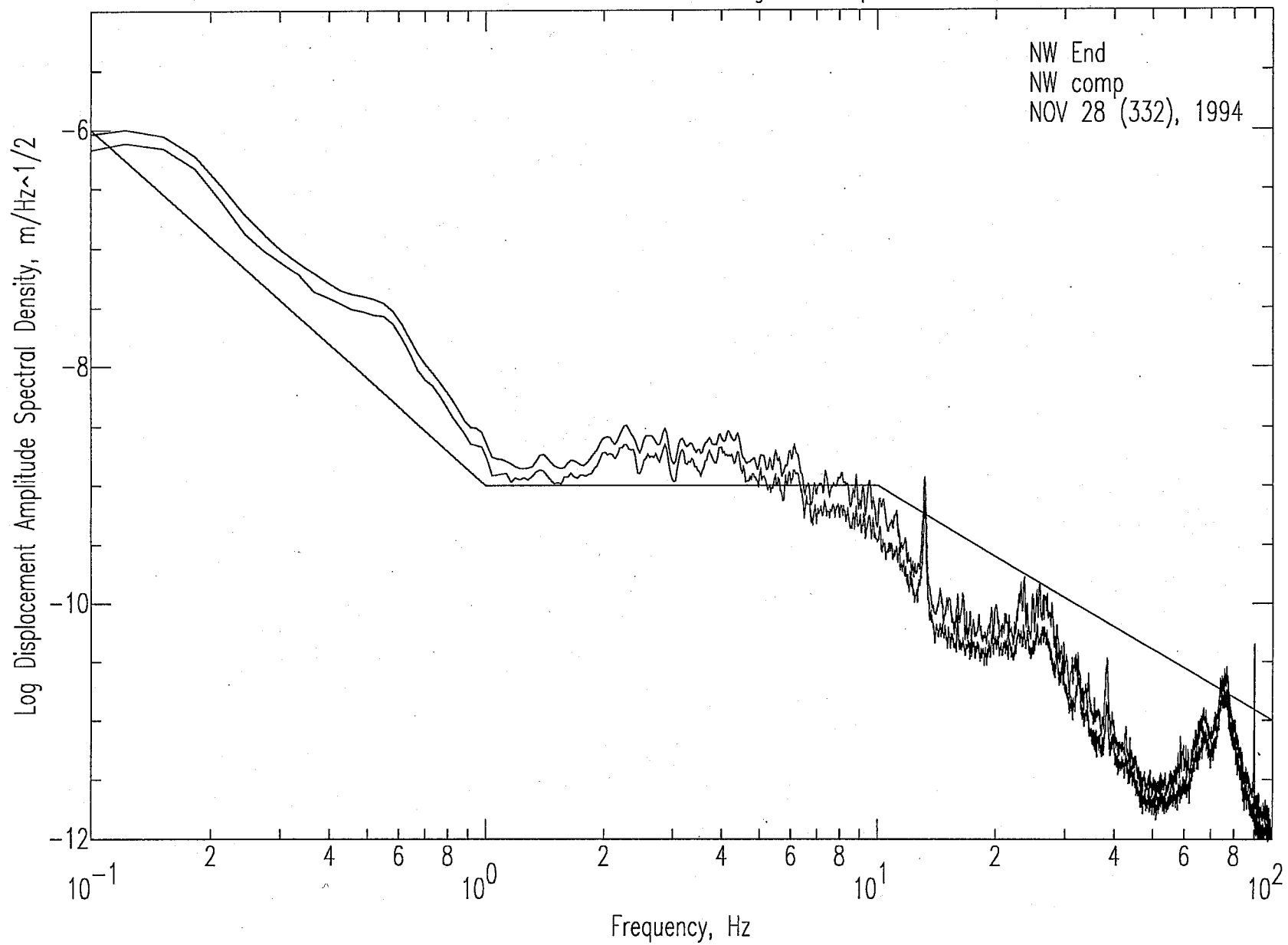




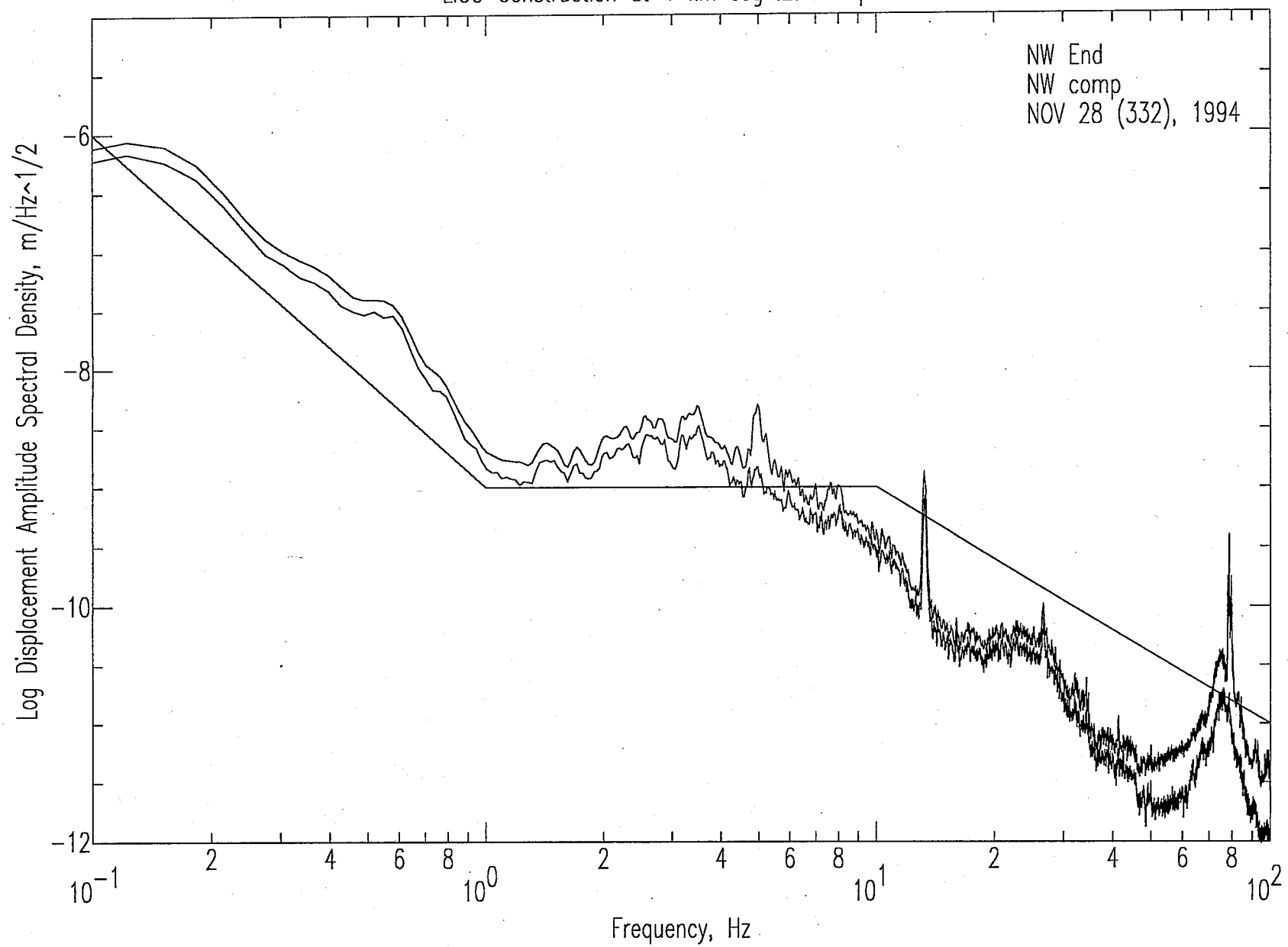
LIGO Construction at 4 km seg2.2.sac Spectra



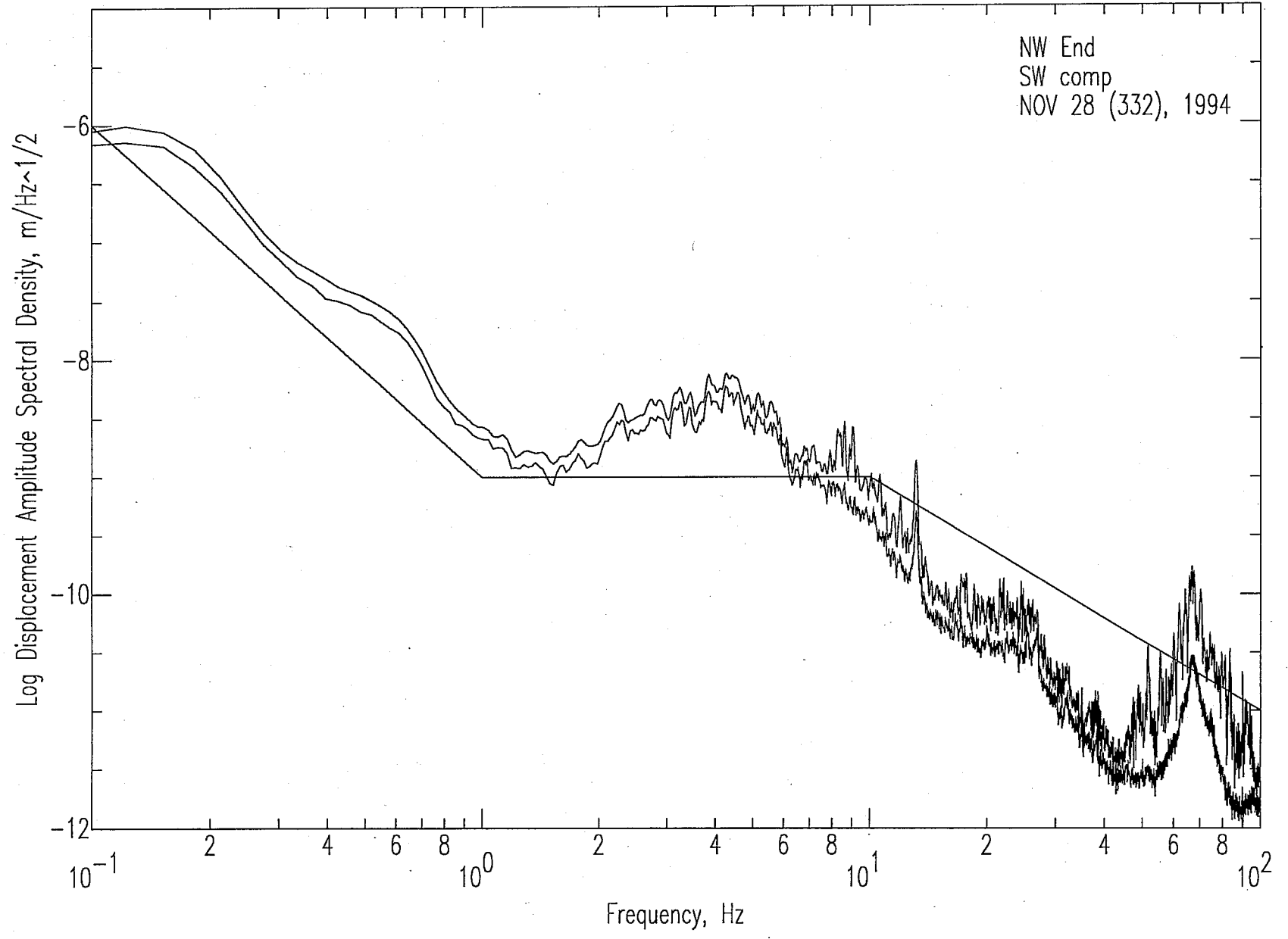
## LIGO Construction at 4 km seg3.2.sac Spectra



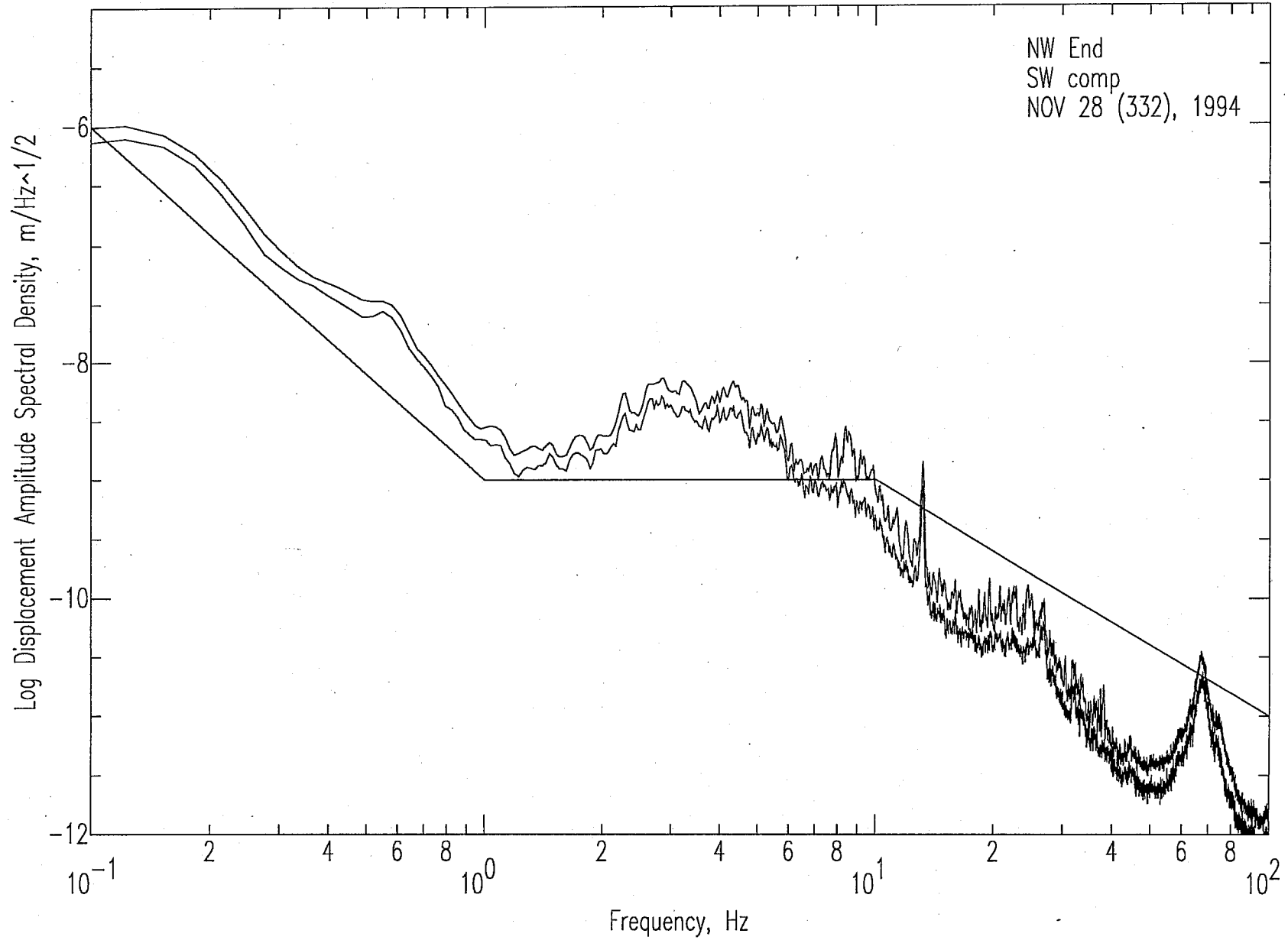
## LIGO Construction at 4 km seg4.2.sac Spectra



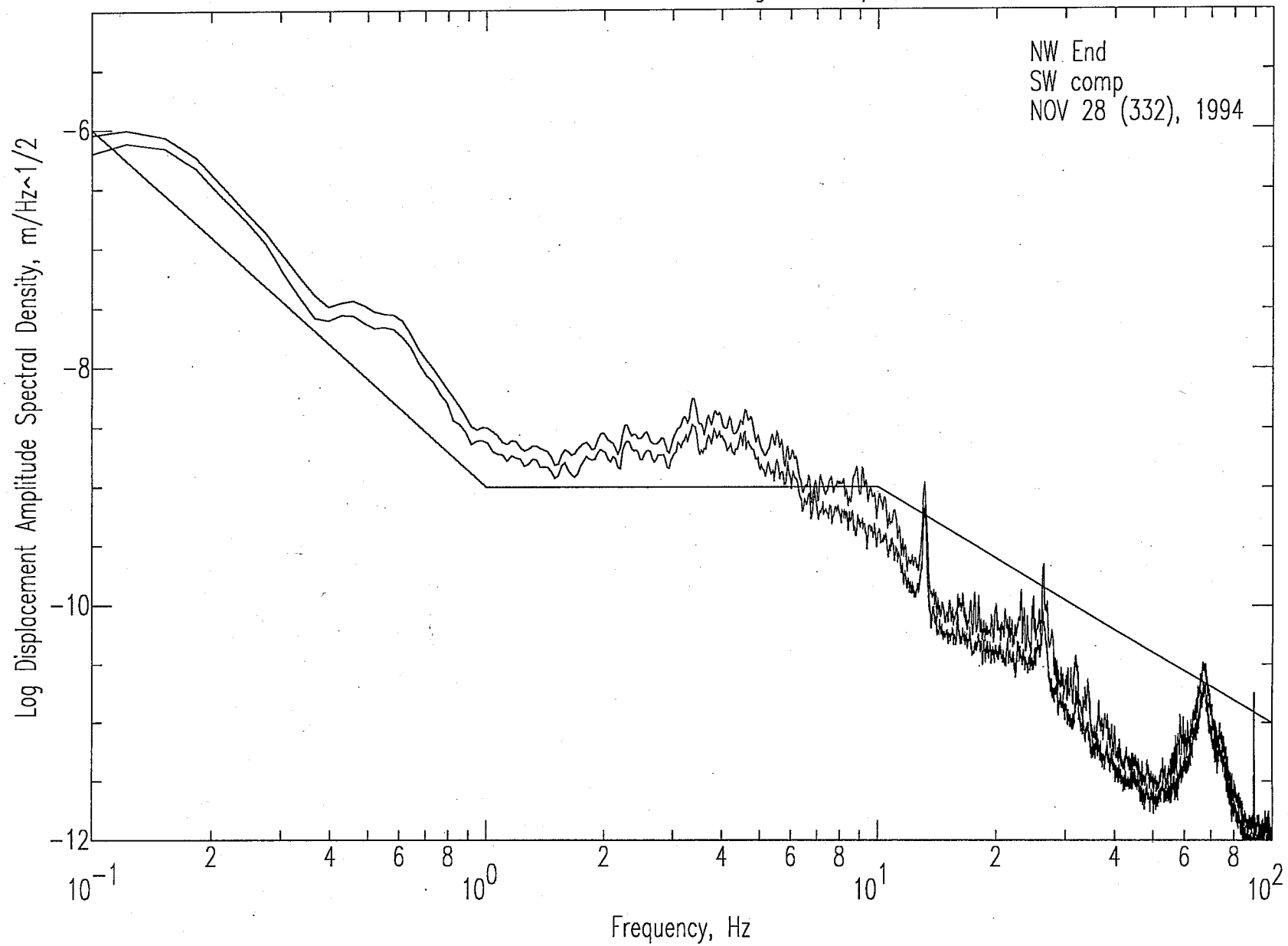
LIGO Construction at 4 km seg1.3.sac Spectra



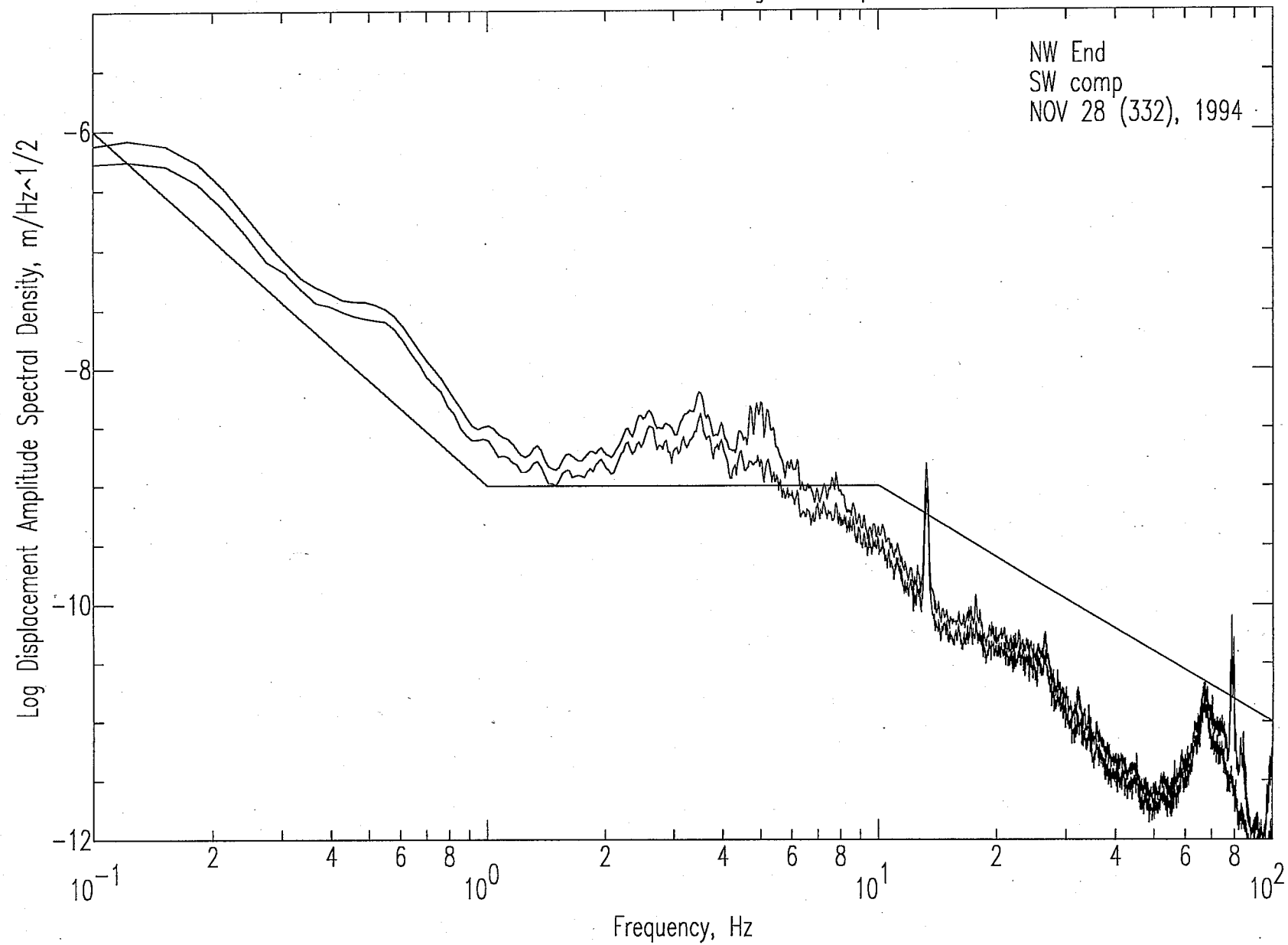
## LIGO Construction at 4 km seg2.3.sac Spectra



## LIGO Construction at 4 km seg3.3.sac Spectra

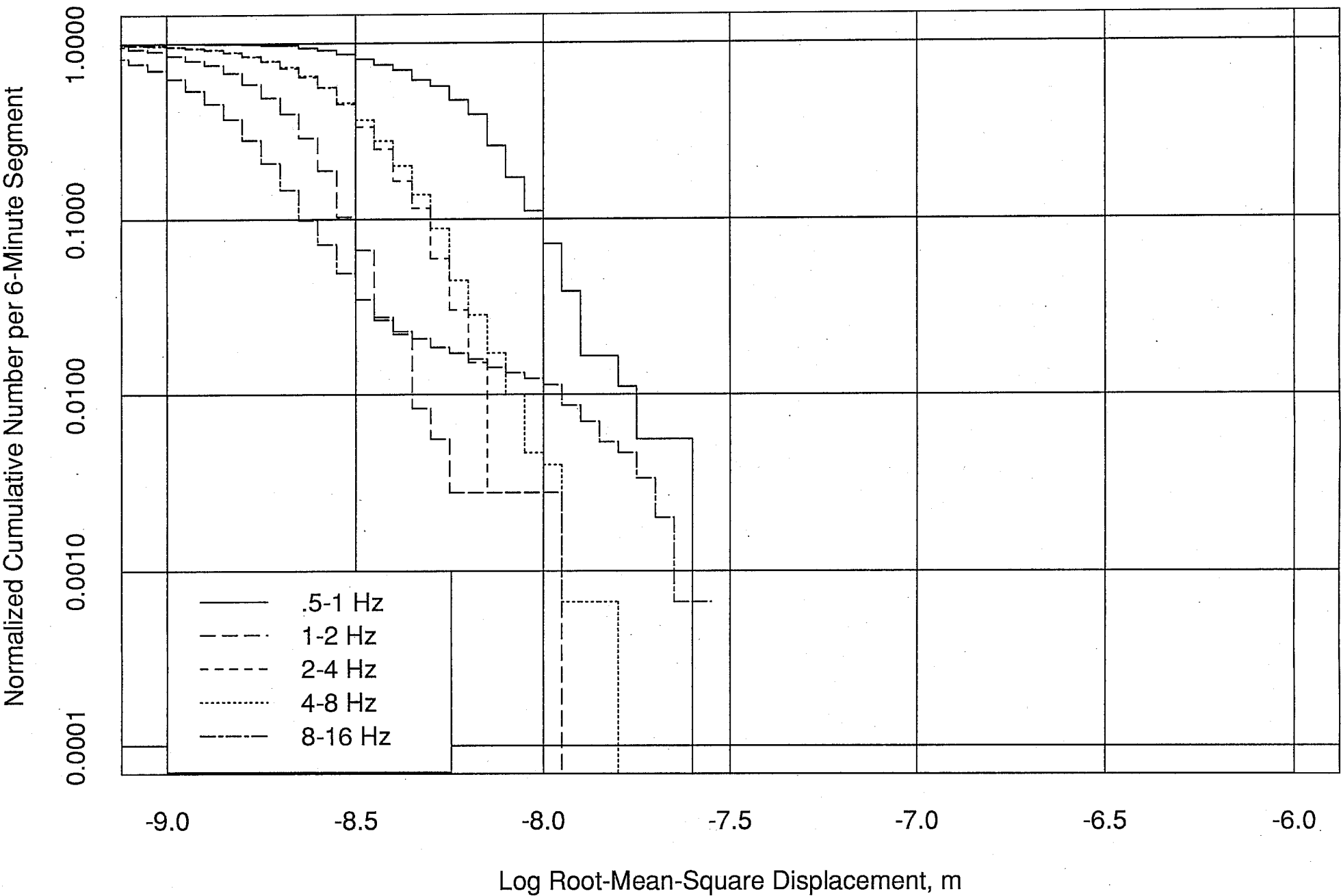


## LIGO Construction at 4 km seg4.3.sac Spectra



# LIGO Construction at 4 KM Vertical Component seg1

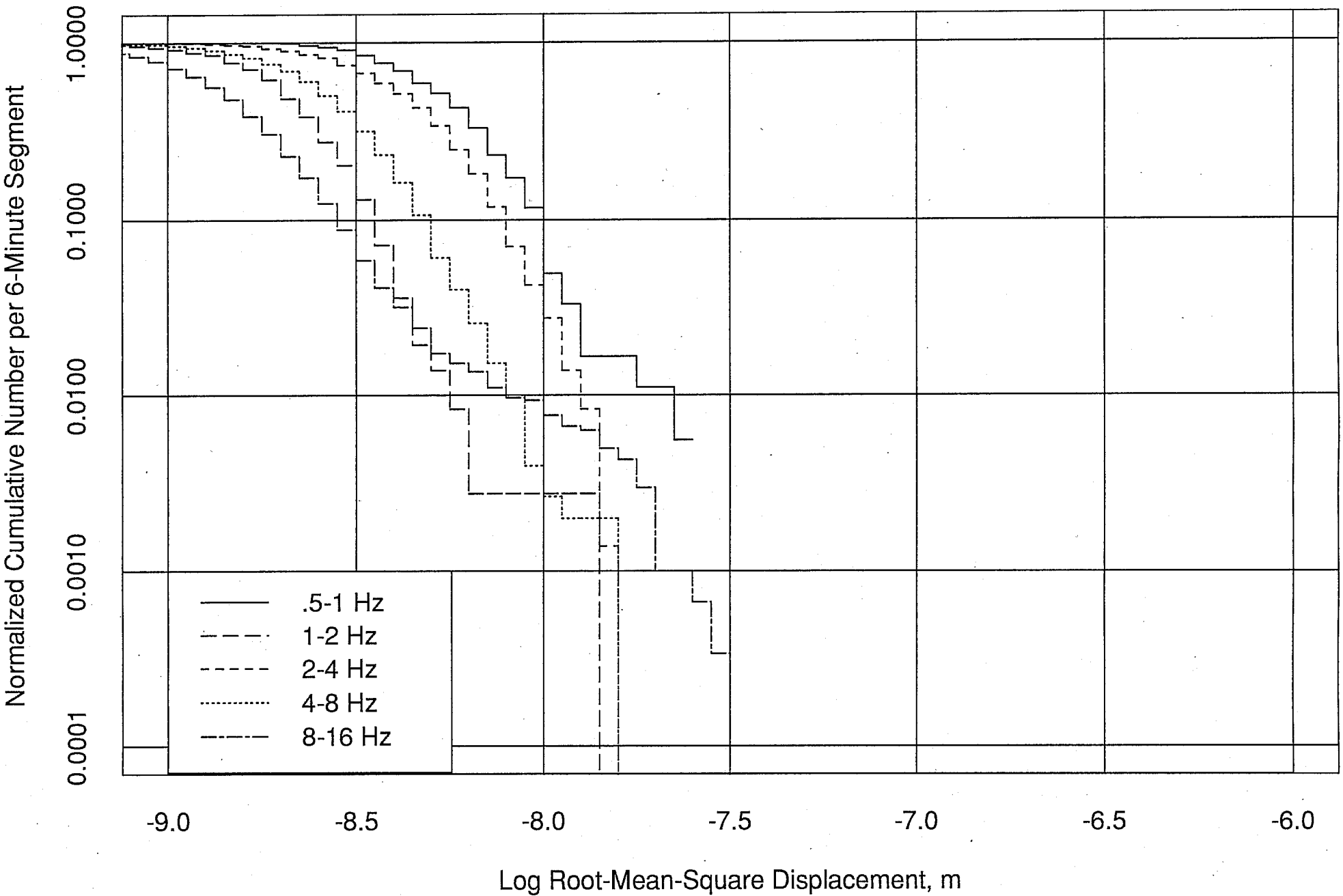
LIGO-C950579-00-0





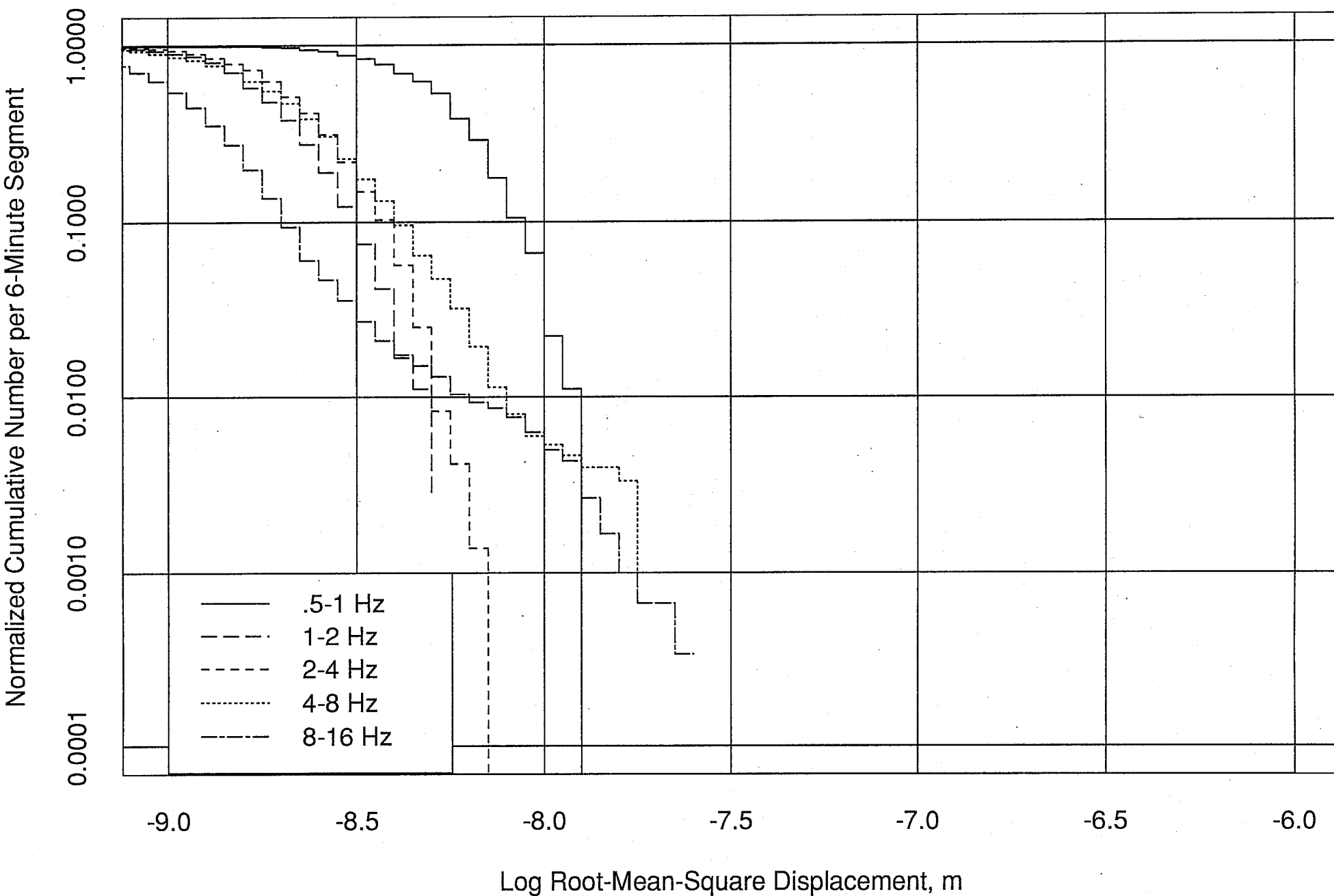
# LIGO Construction at 4 KM Vertical Component seg2

LIGO-C950579-00-0



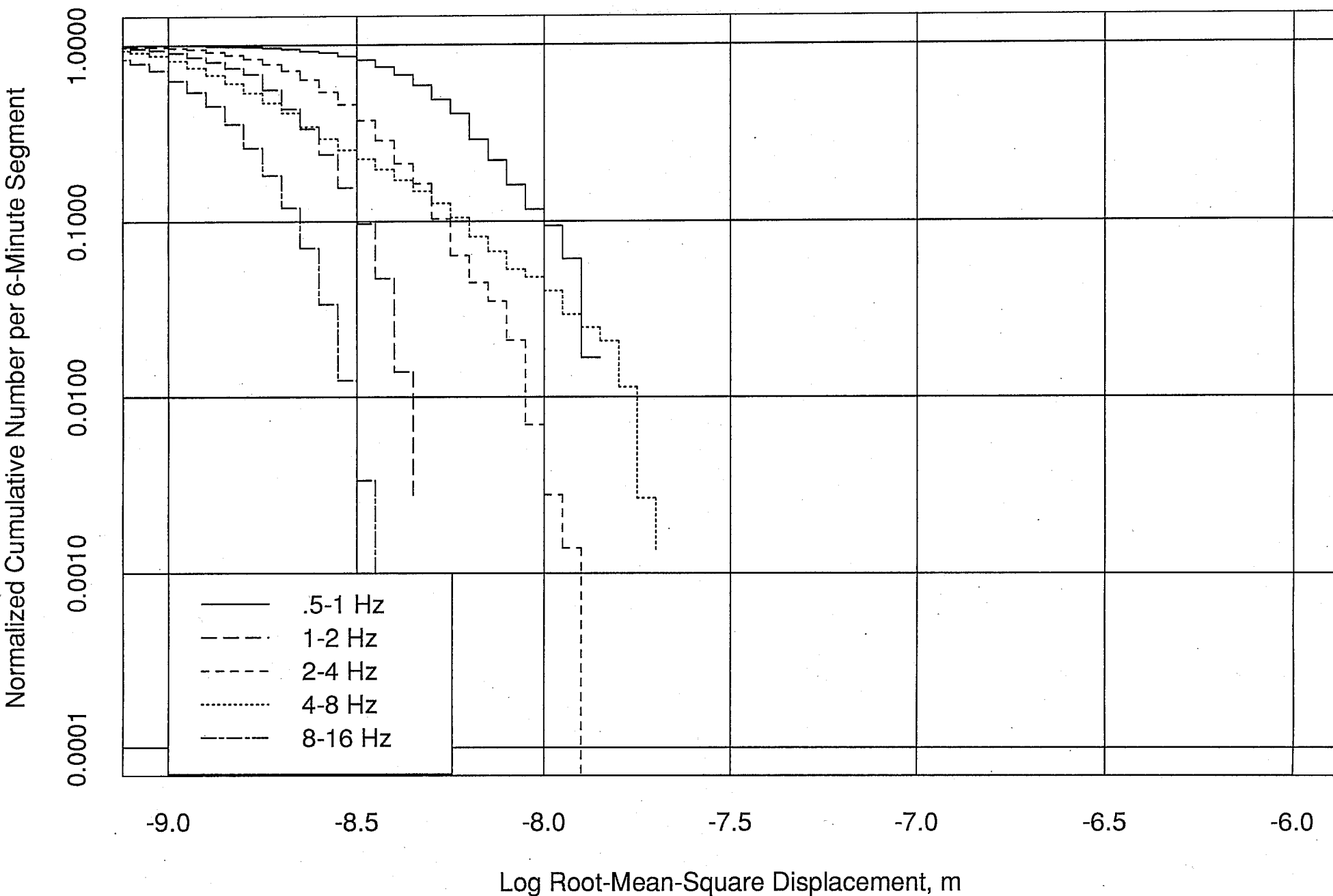
# LIGO Construction at 4 KM Vertical Component seg3

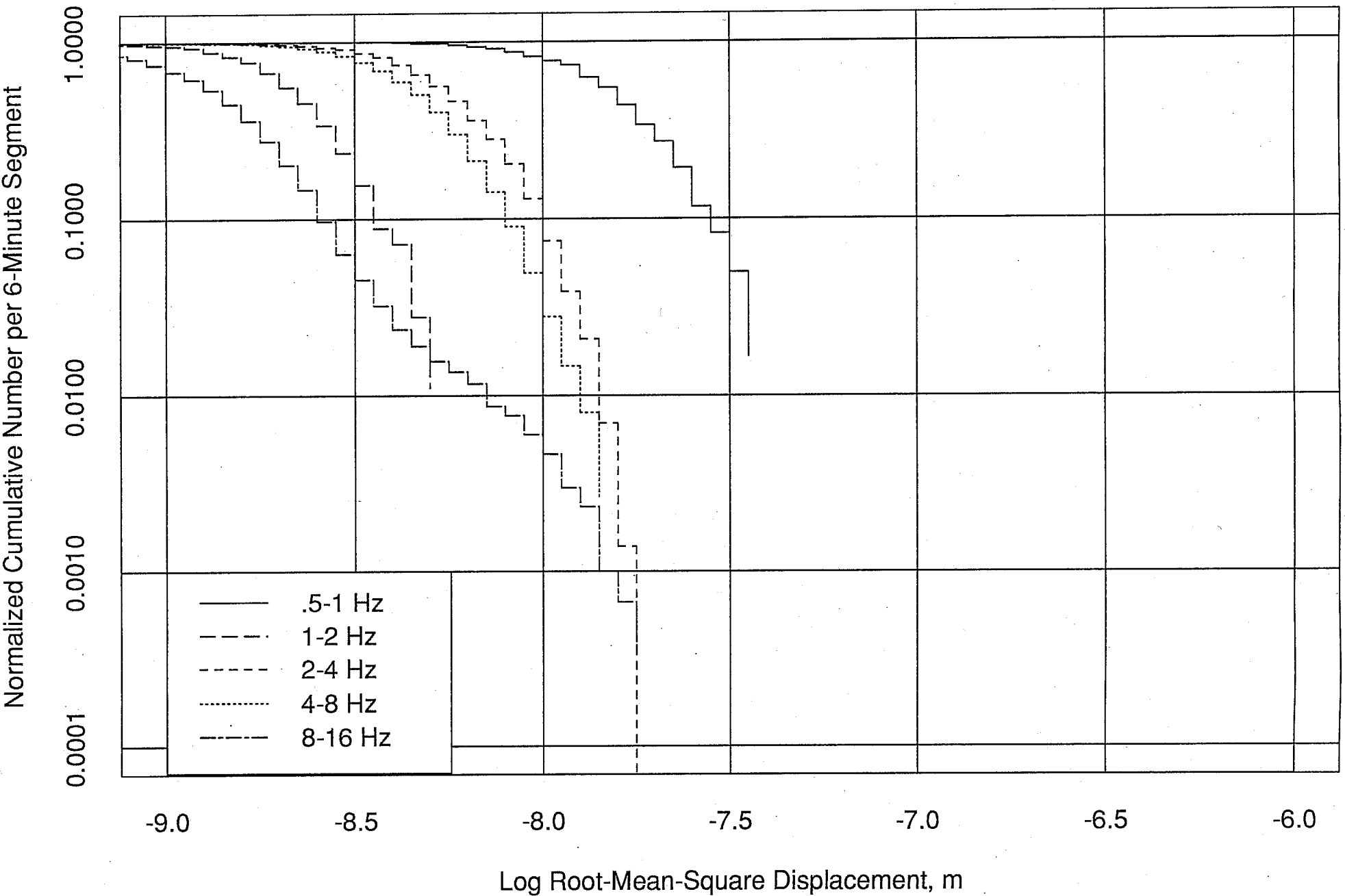
LIGO-C950579-00-0



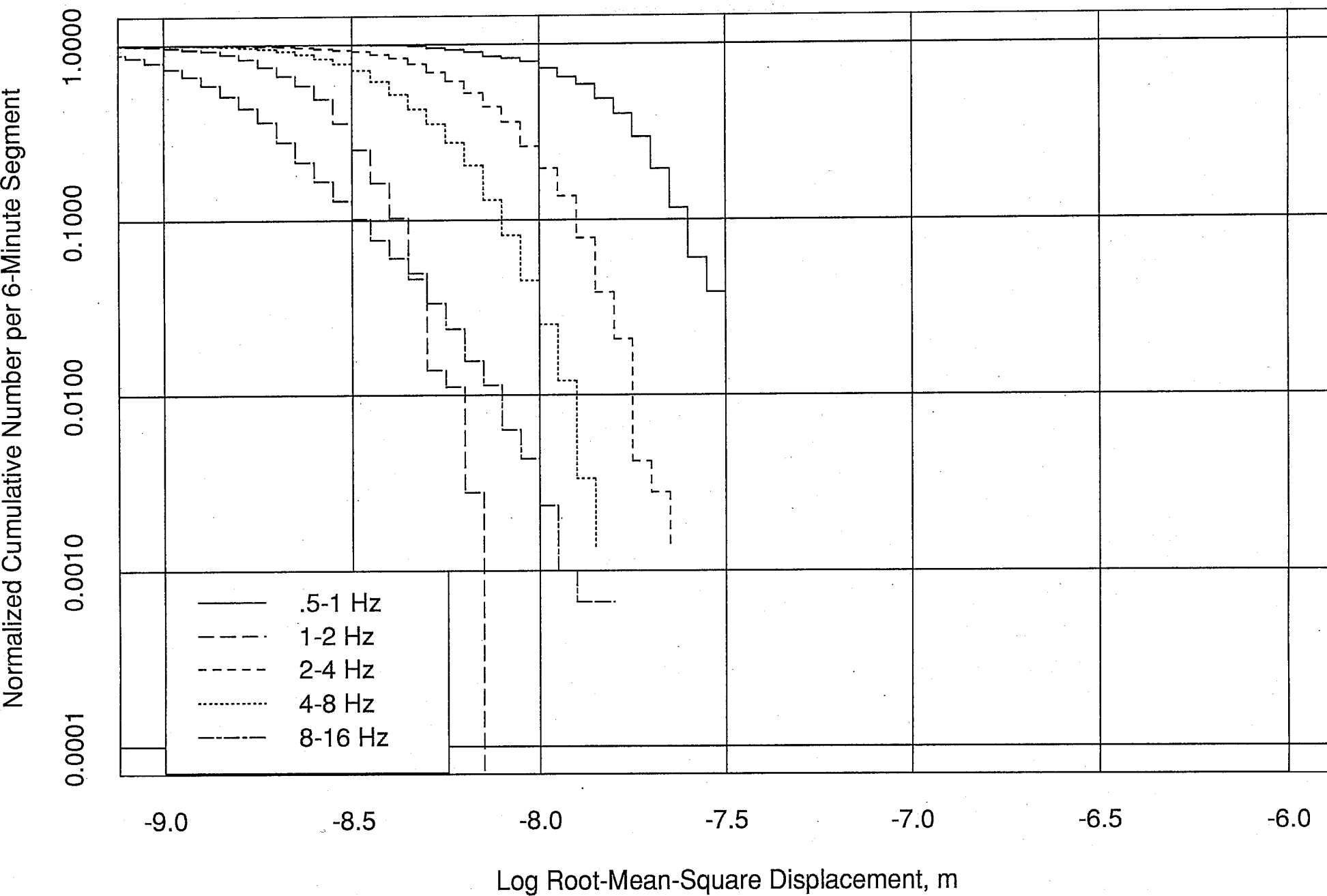
# LIGO Construction at 4 KM Vertical Component seg4

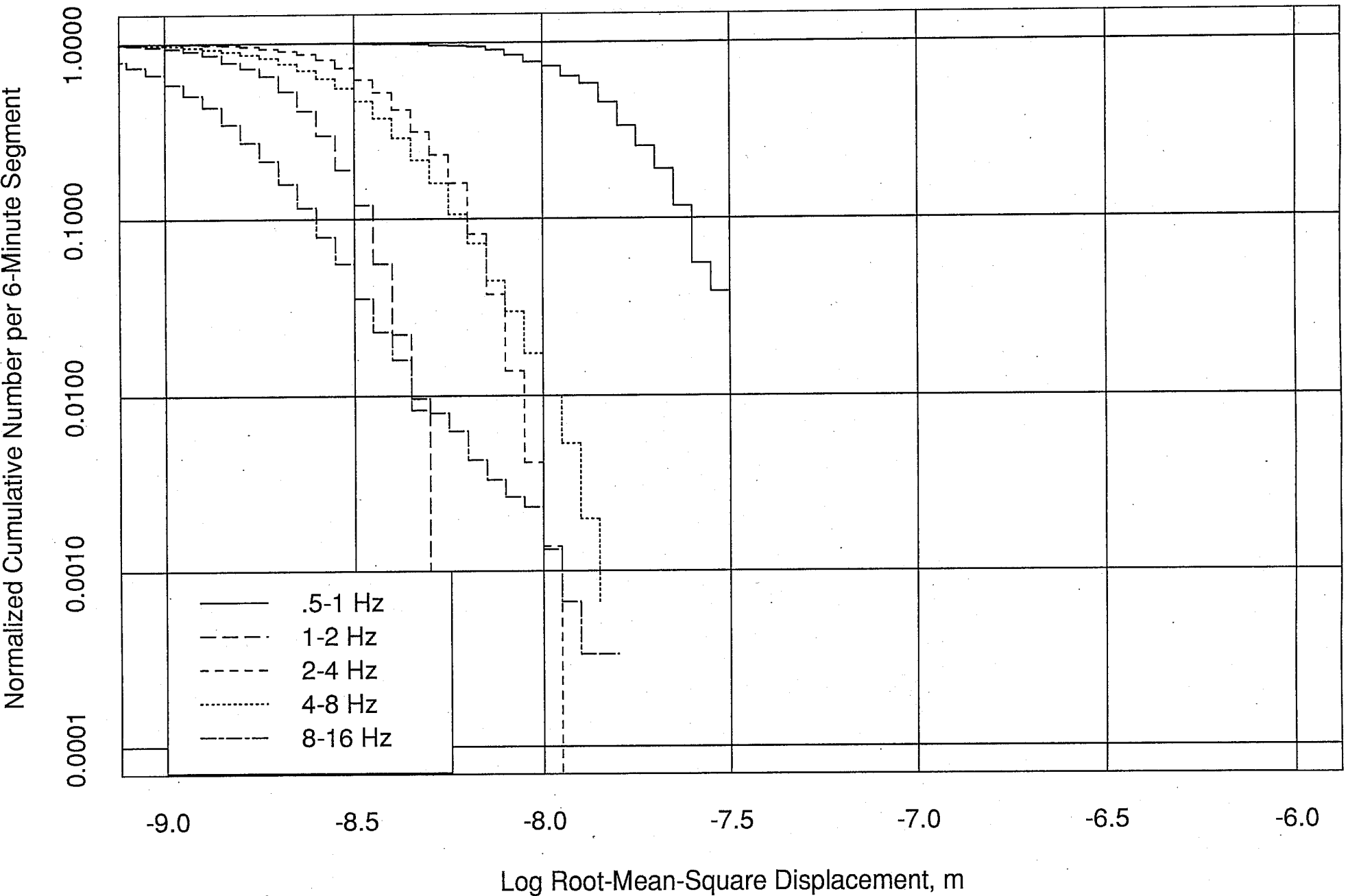
LIGO-C950579-00-0

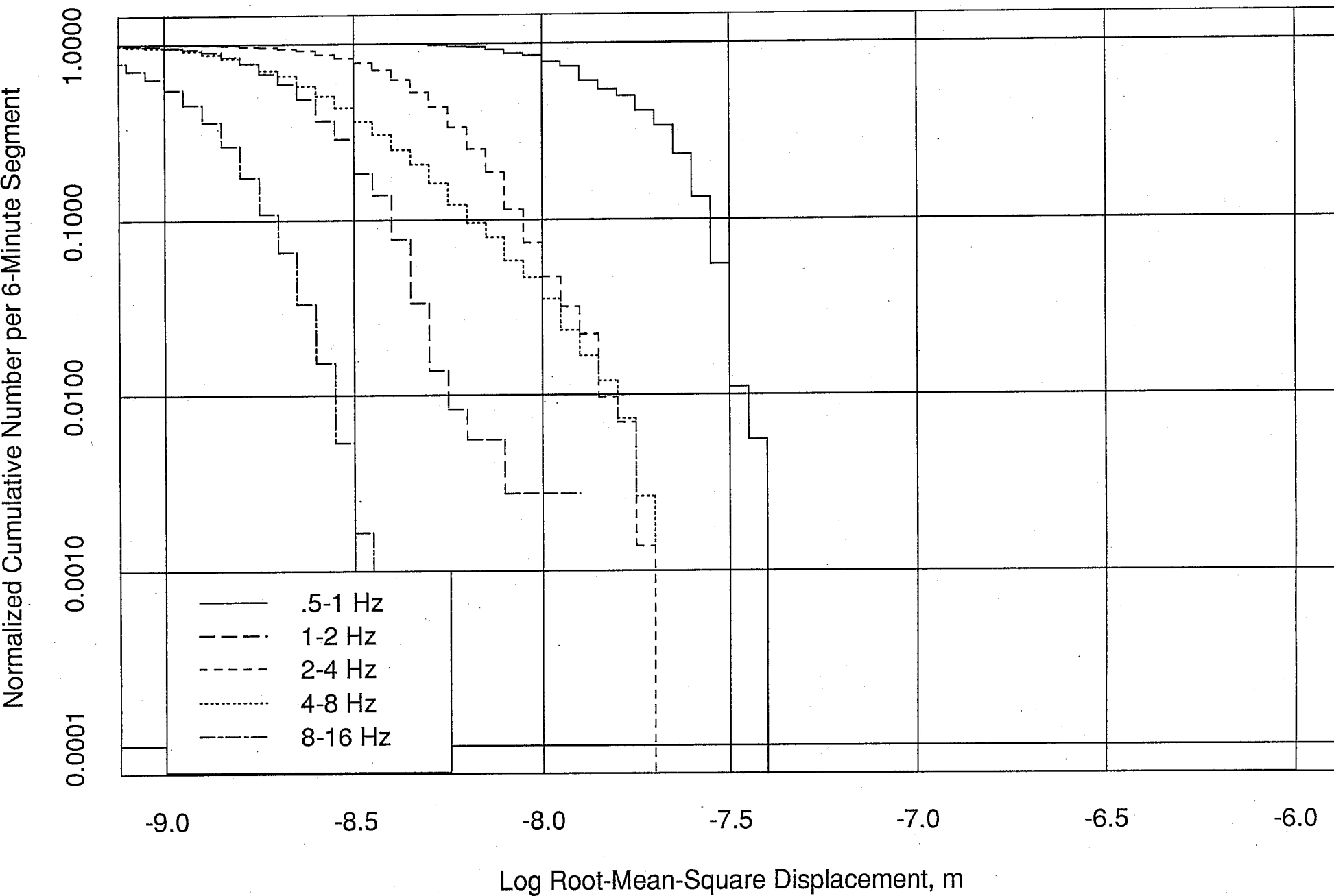


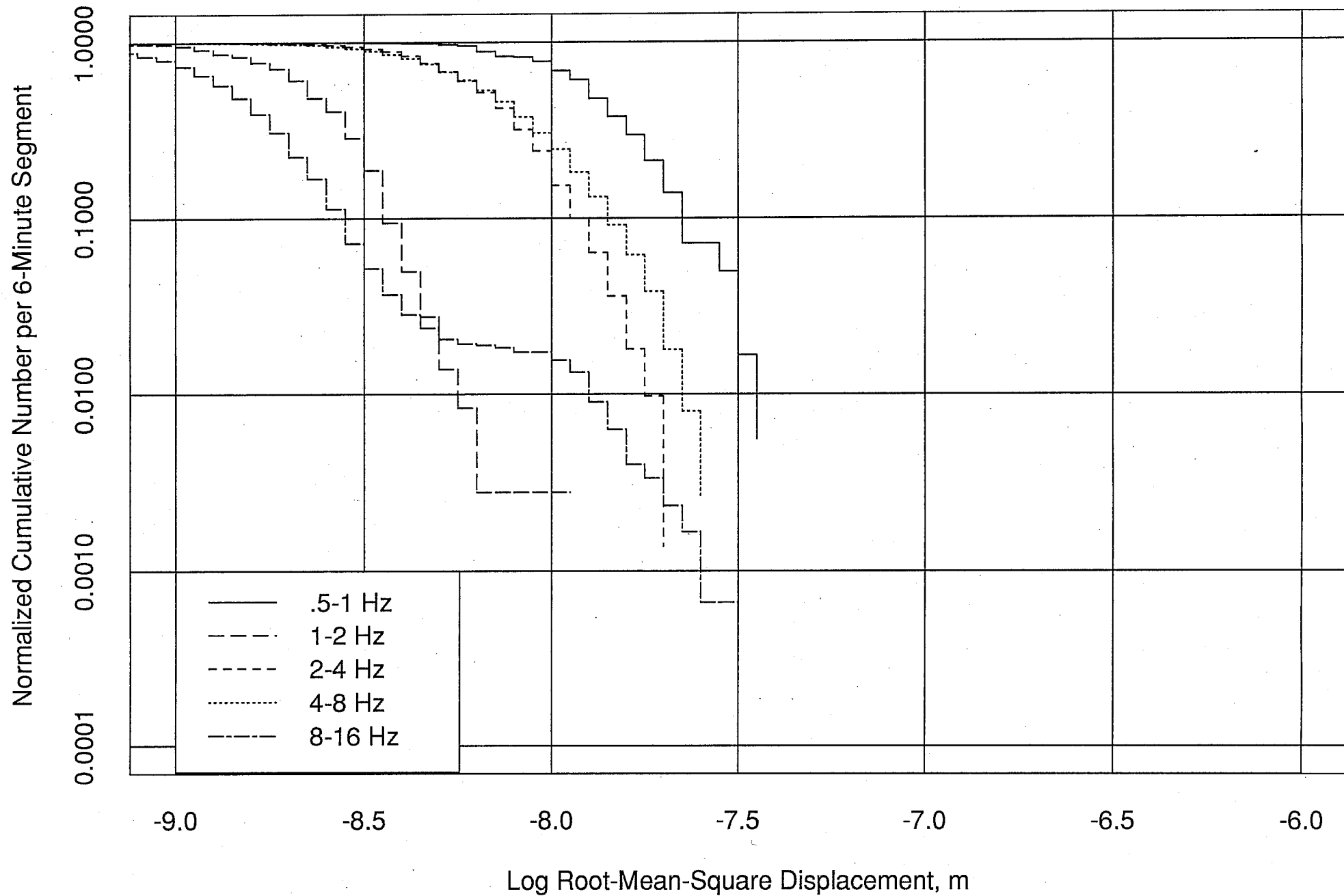


# LIGO Construction at 4 KM Northwest Component seg2 LIGO-C950579-00-0

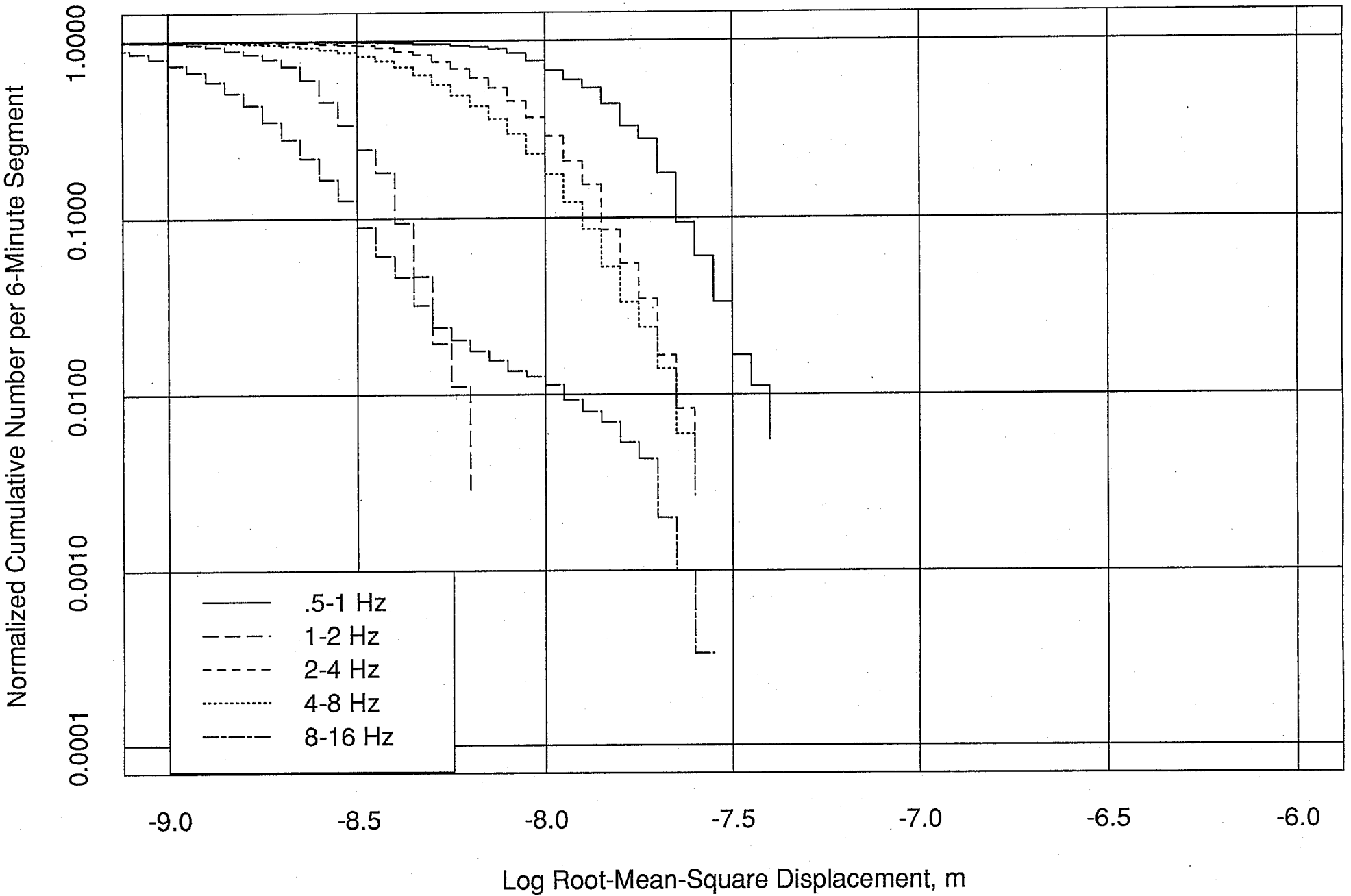




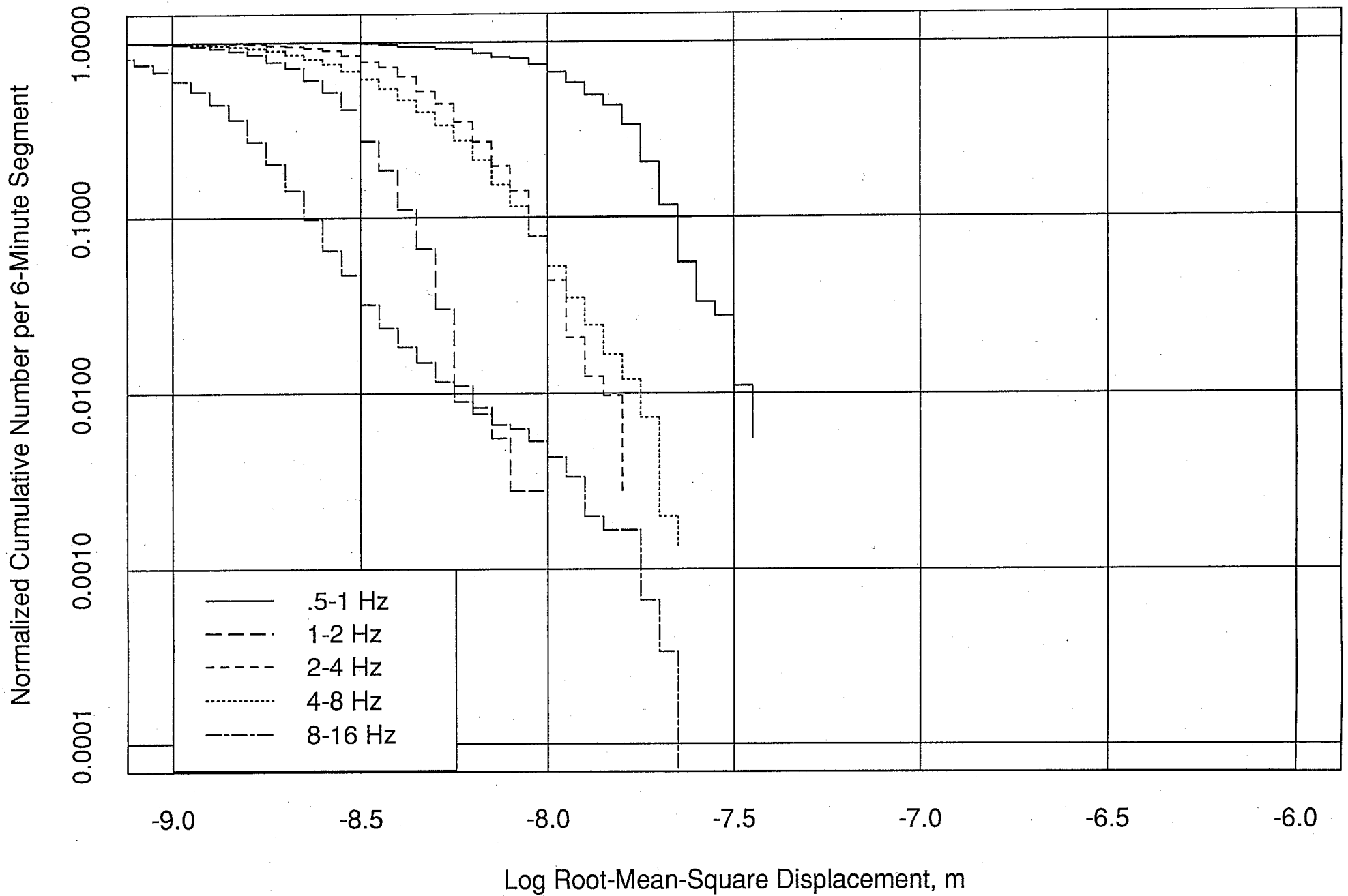


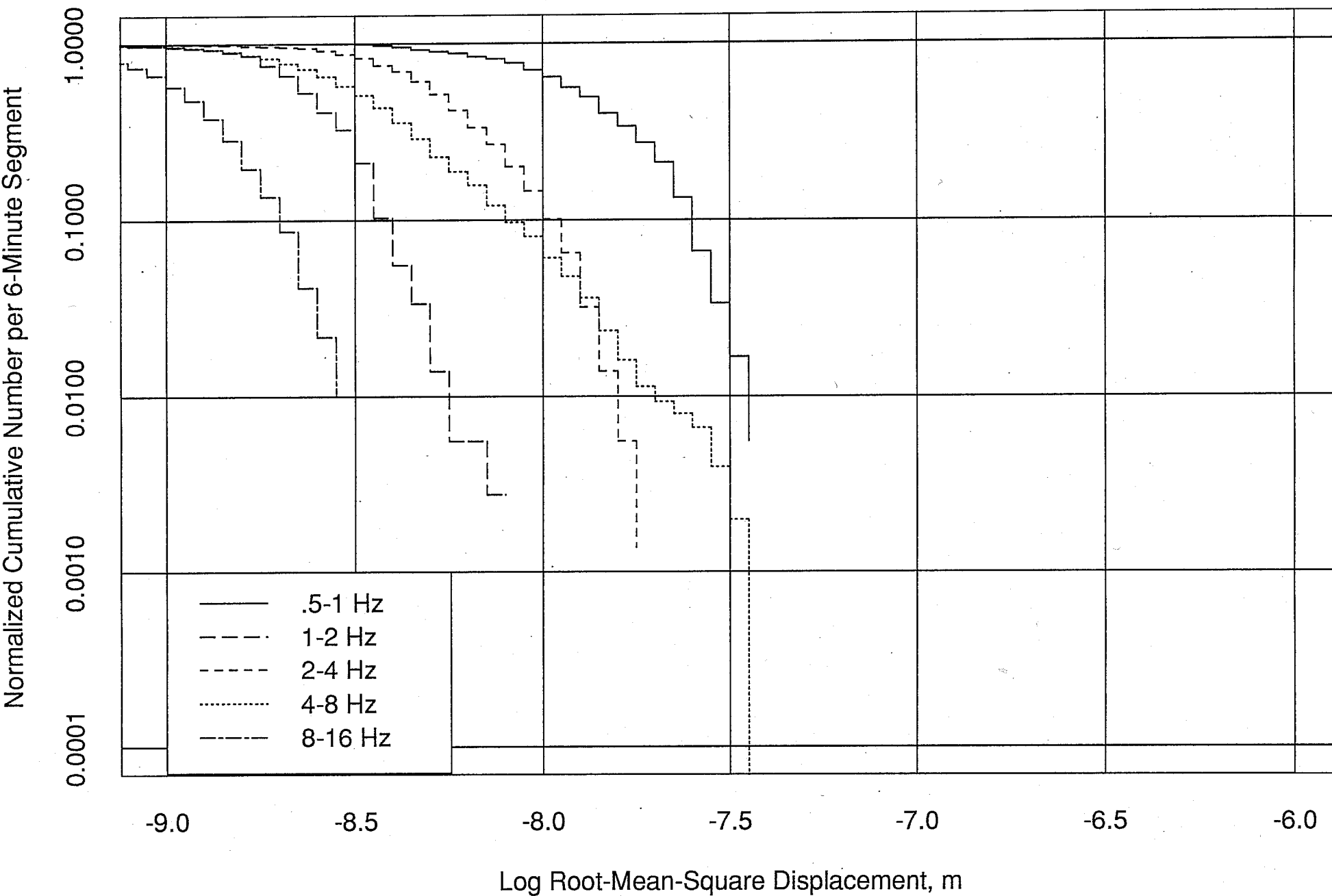






# LIGO Construction at 4 KM Southwest Component seg3 LIGO-C950579-00-0





## Construction Activity Plots

### LIGO Construction at 300 m from Temporary Site

#### Vertical Acceleration Spectrogram

#### Vertical Component Spectra

- segment 1
- segment 2
- segment 3
- segment 4

#### Northwest Component Spectra

- segment 1
- segment 2
- segment 3
- segment 4

#### Southwest Component Spectra

- segment 1
- segment 2
- segment 3
- segment 4

#### Vertical Component Histograms

- segment 1
- segment 2
- segment 3
- segment 4

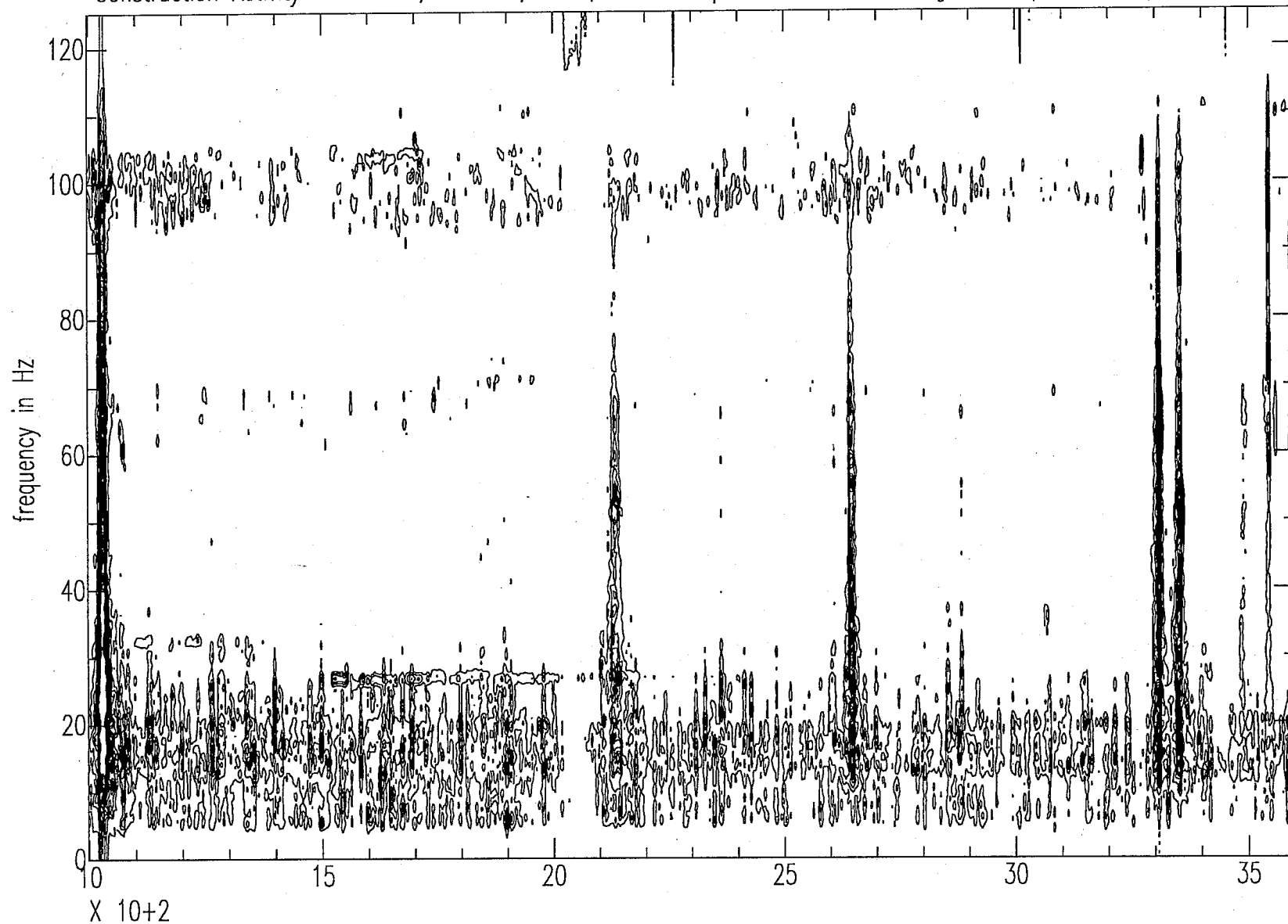
#### Northwest Component Histograms

- segment 1
- segment 2
- segment 3
- segment 4

#### Southwest Component Histograms

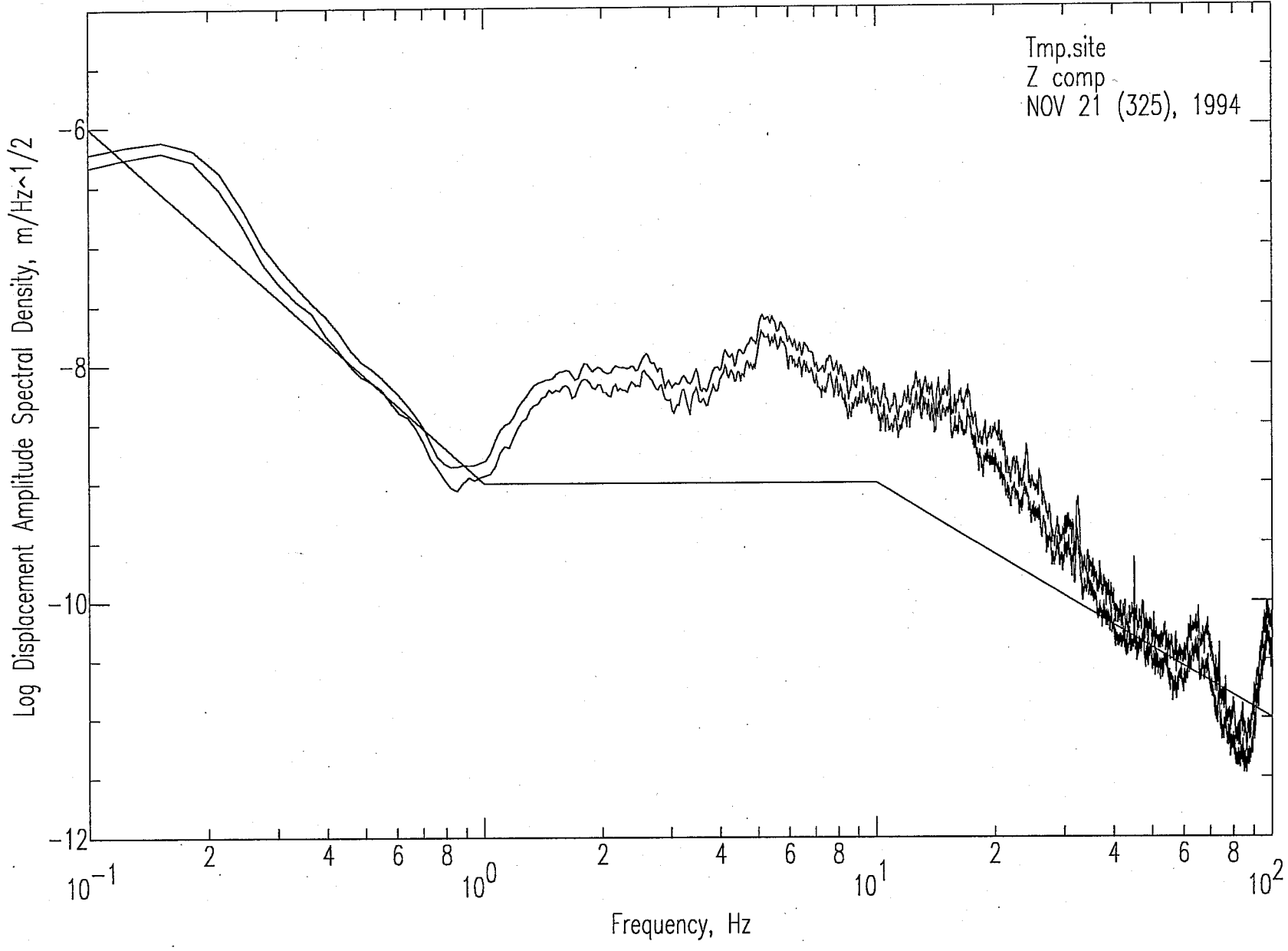
- segment 1
- segment 2
- segment 3
- segment 4

Construction Activity at 300 m, Nov. 21, 1994, After Dump trucks and including the 4 passes of pickup trucks

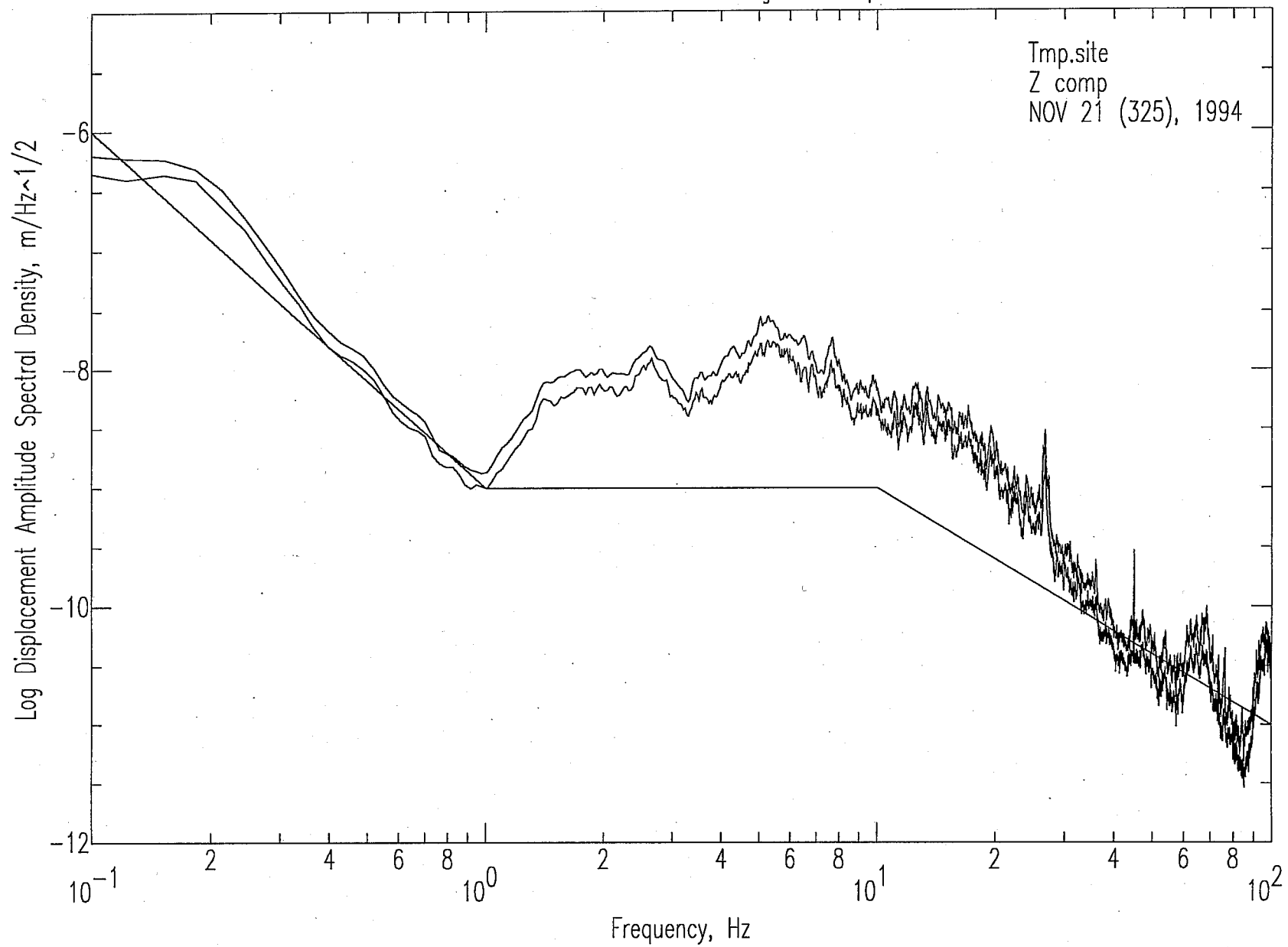


time in seconds from start of recording 325.23.41.29

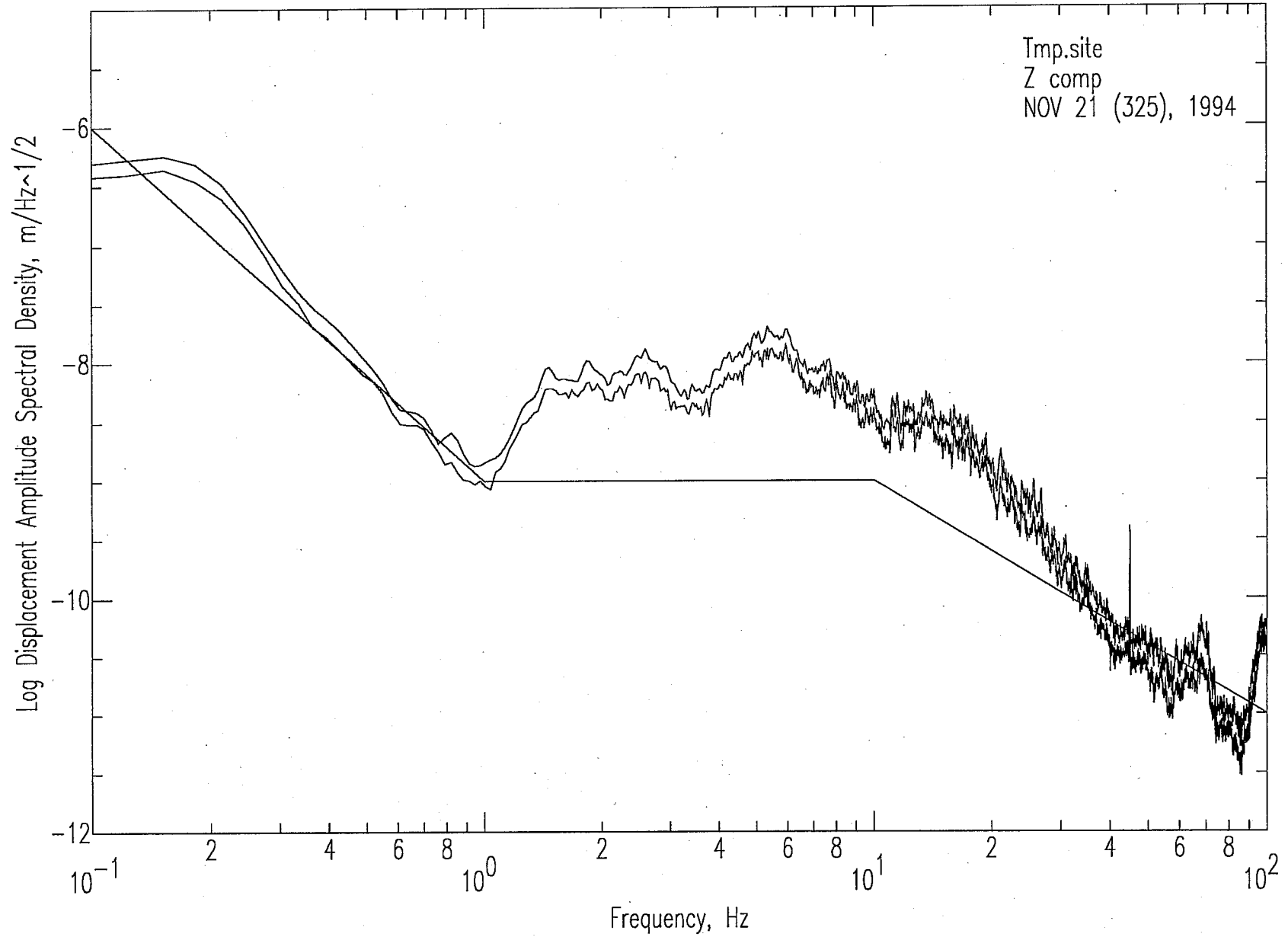
LIGO Construction at 300 m seg1.1.sac Spectra



## LIGO Construction at 300 m seg2.1.sac Spectra

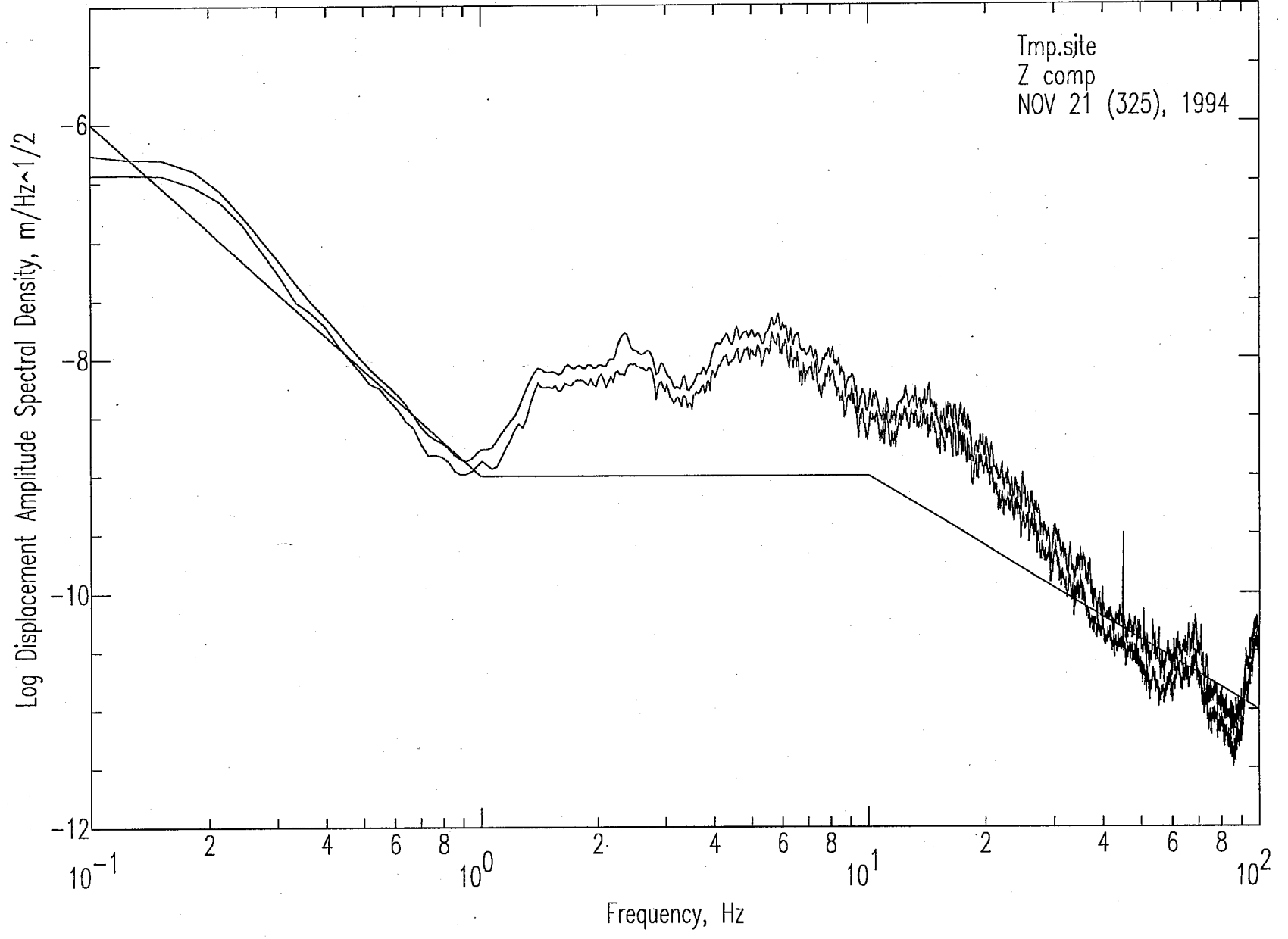


## LIGO Construction at 300 m seg3.1.sac Spectra

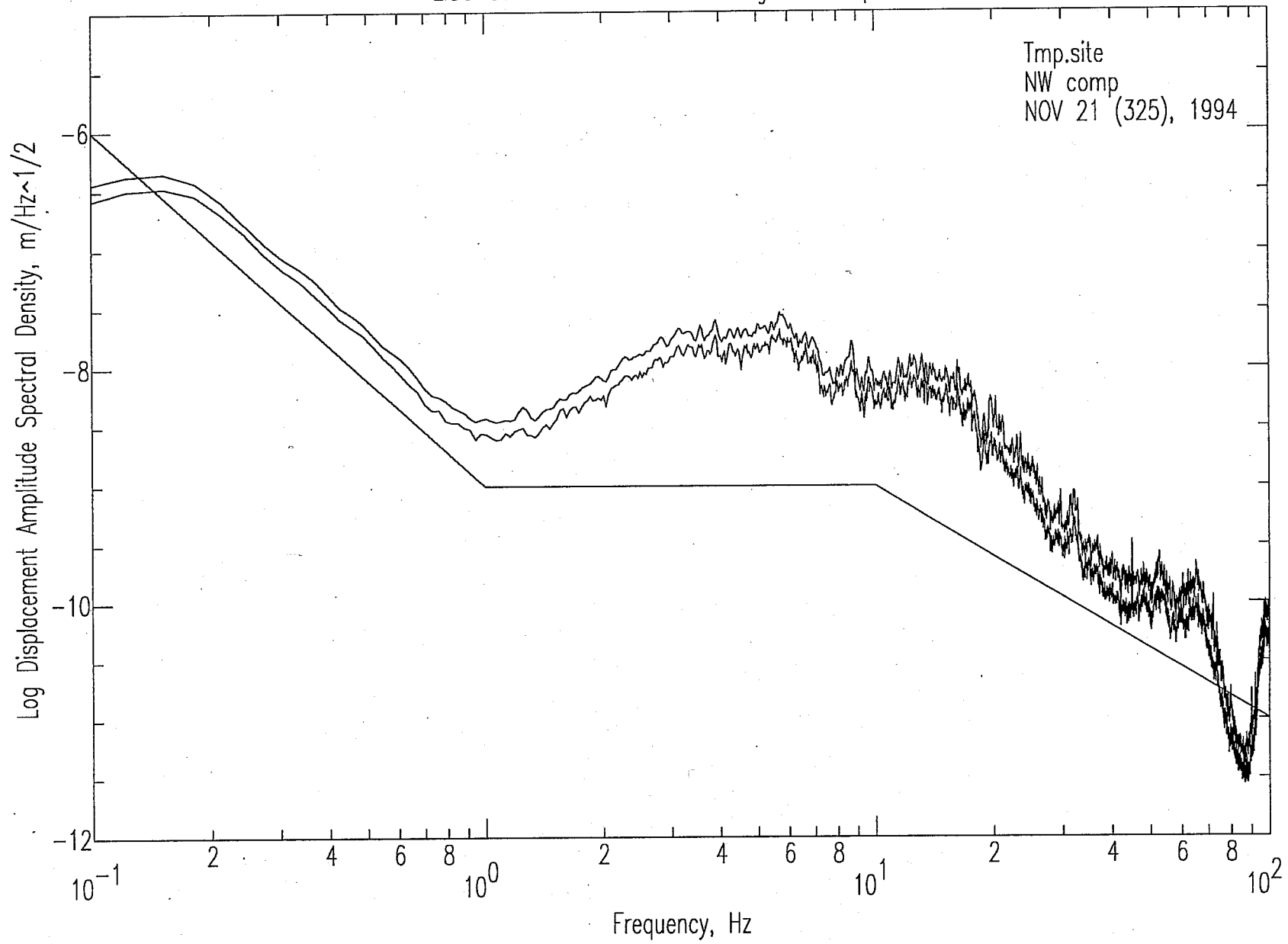




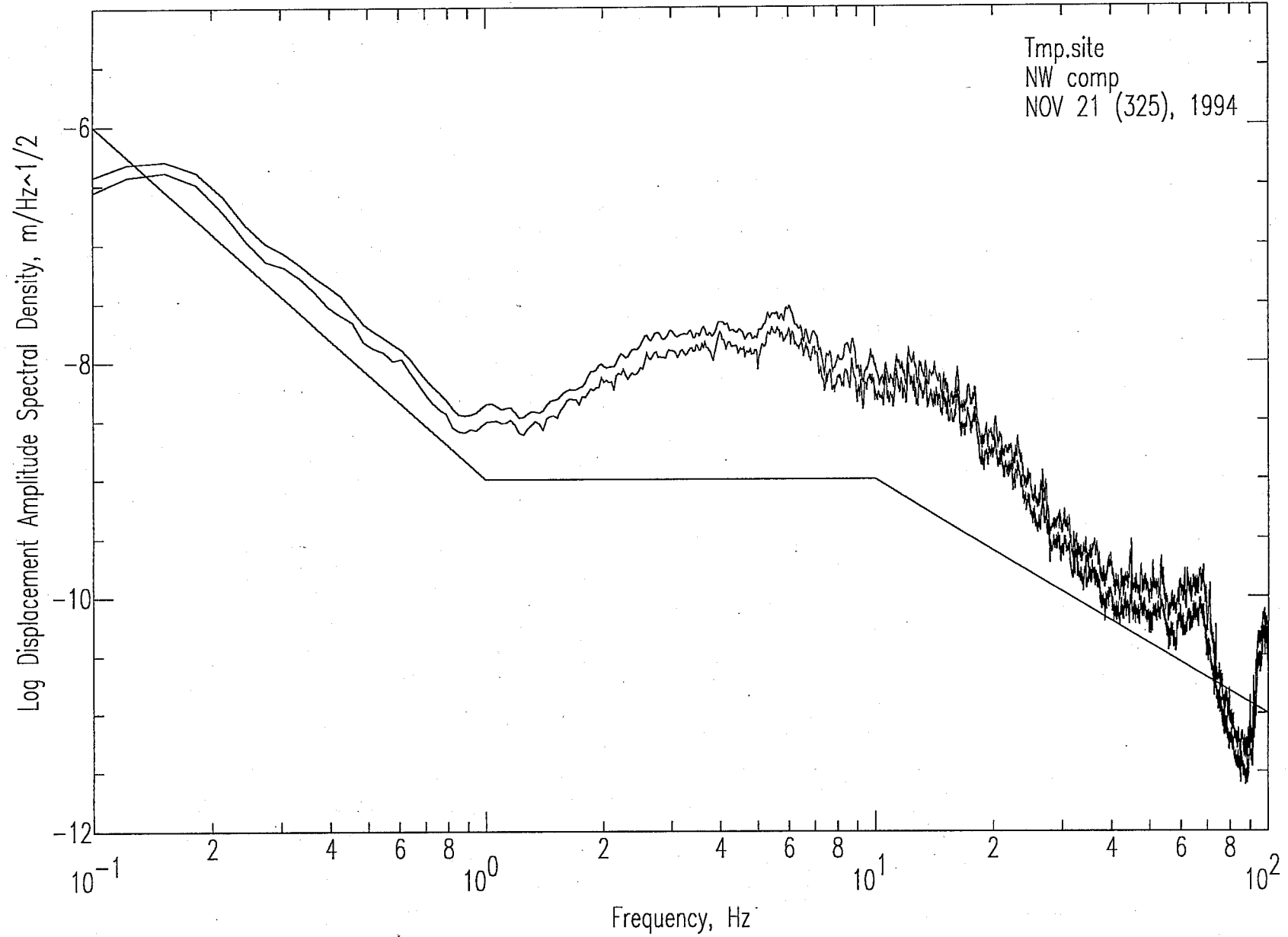
LIGO Construction at 300 m seg4.1.sac Spectra



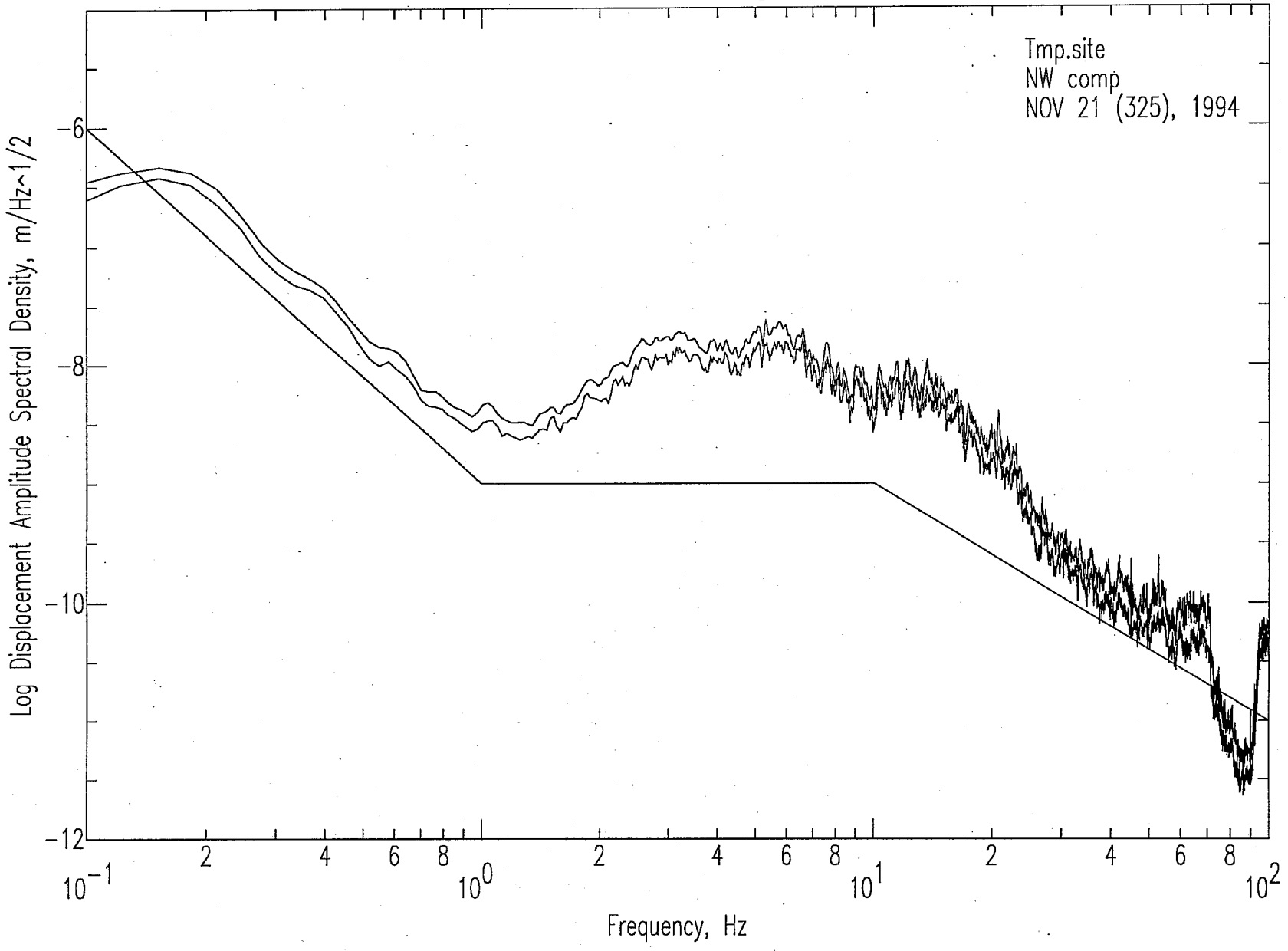
## LIGO Construction at 300 m seg1.2.sac Spectra



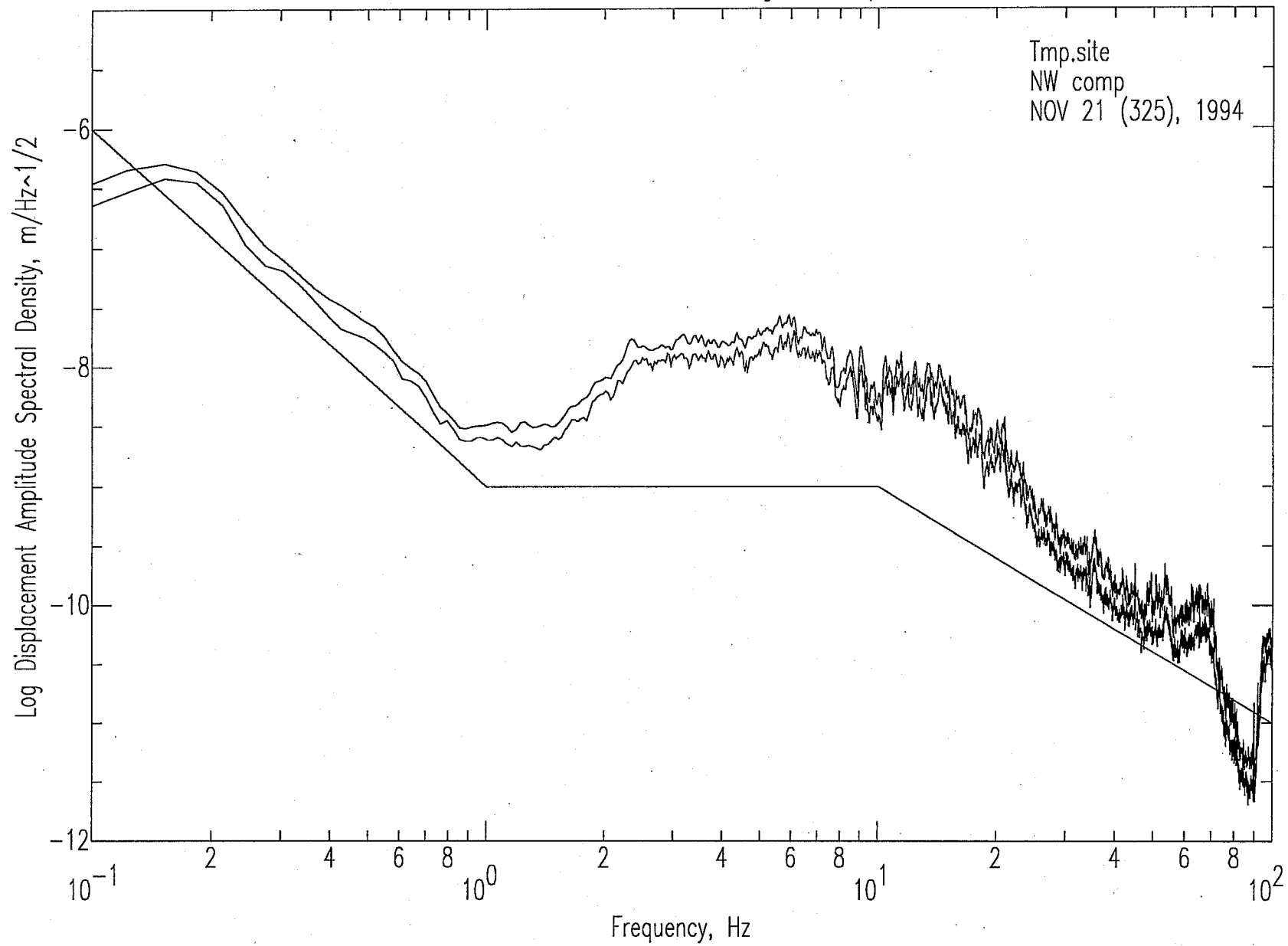
## LIGO Construction at 300 m seg2.2.sac Spectra



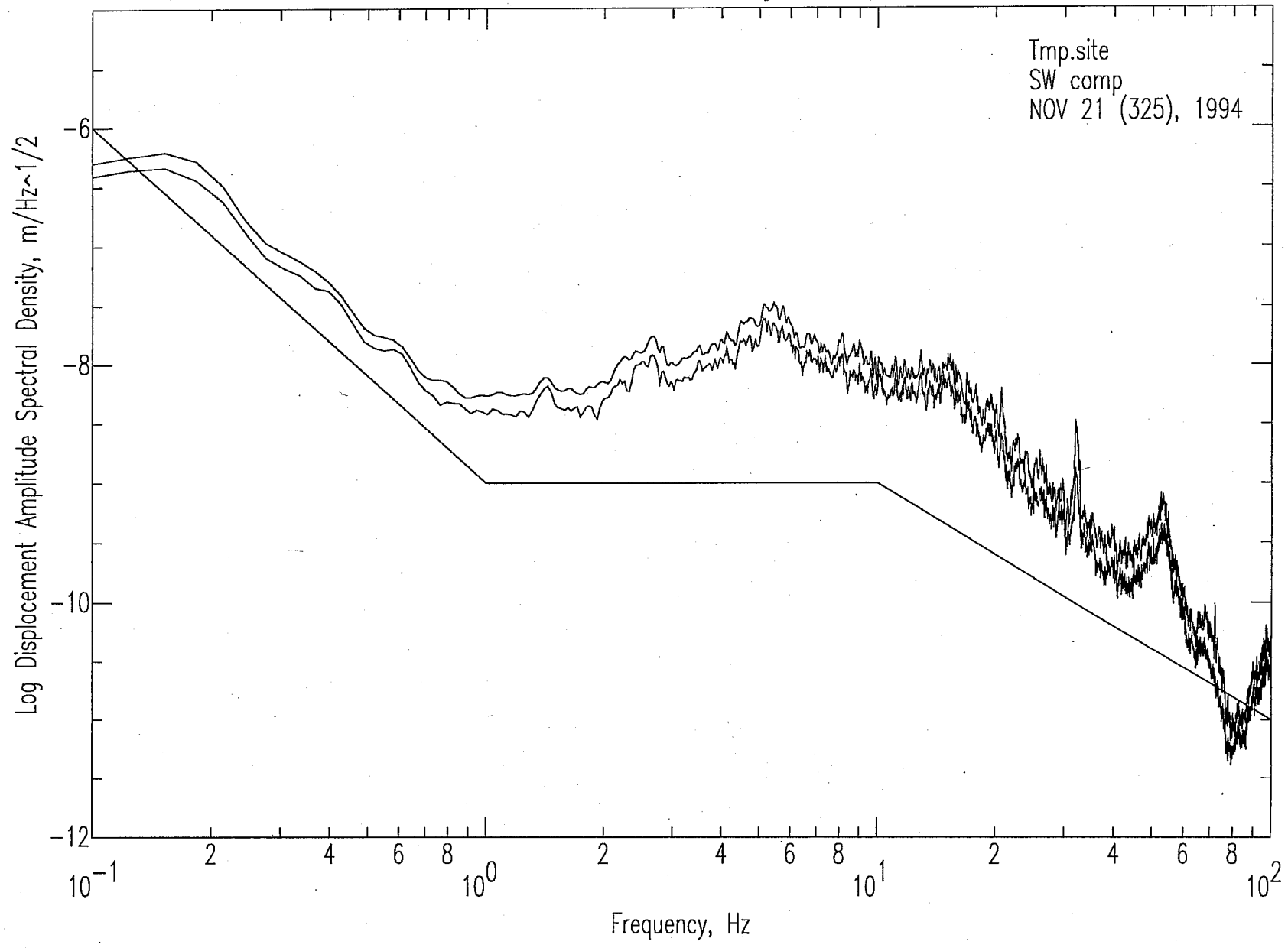
LIGO Construction at 300 m seg3.2.sac Spectra



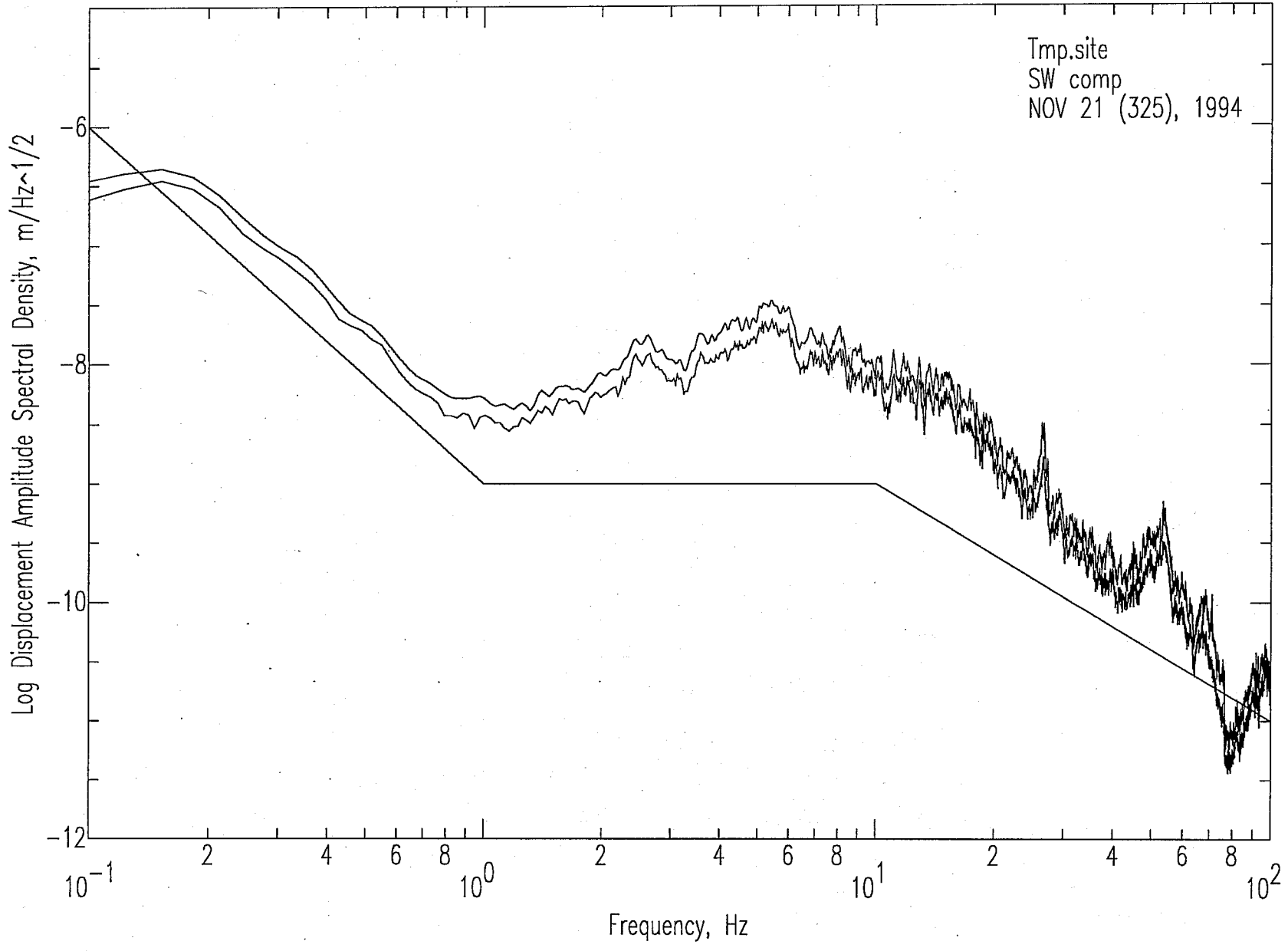
## LIGO Construction at 300 m seg4.2.sac Spectra



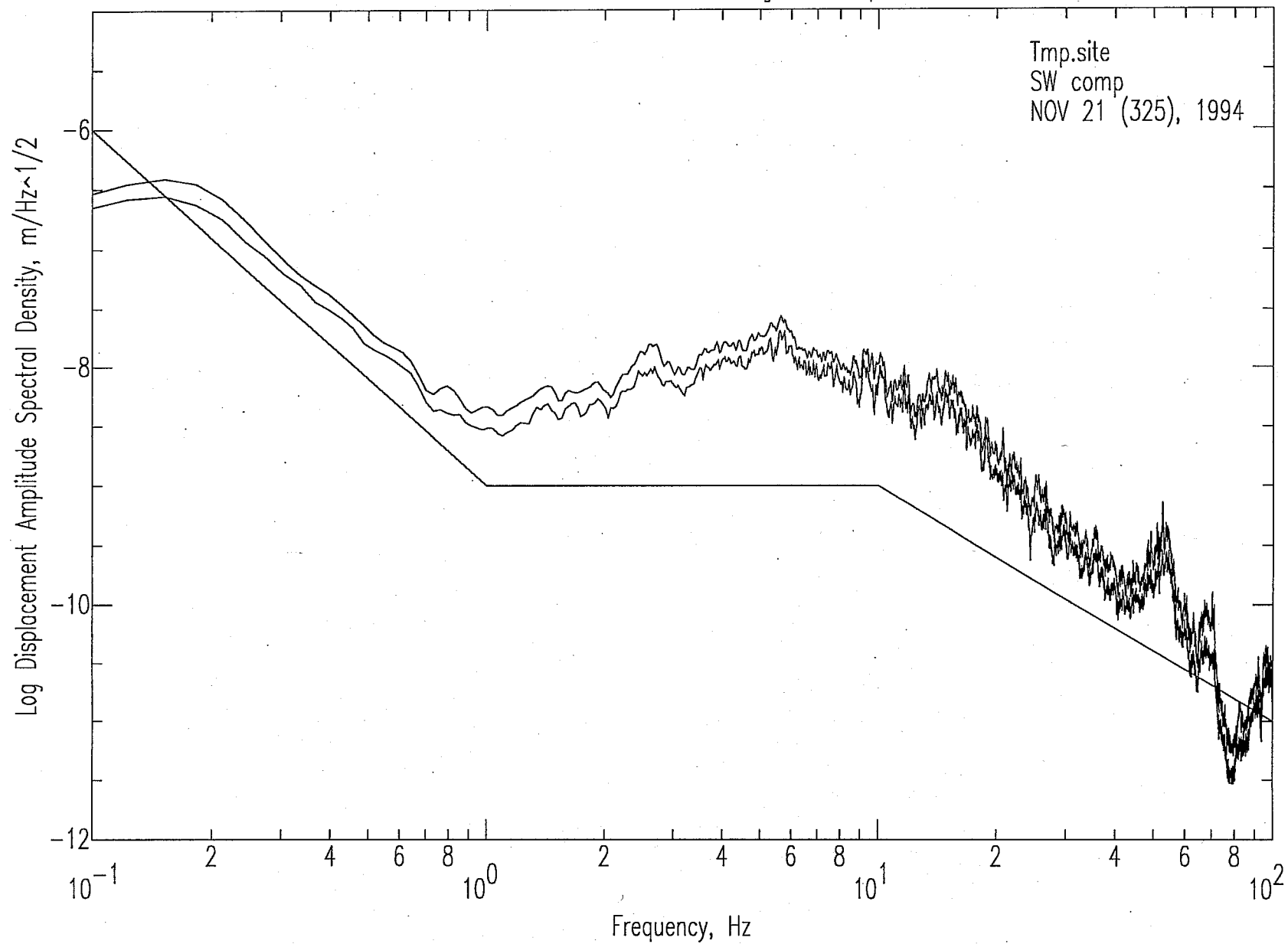
## LIGO Construction at 300 m seg1.3.sac Spectra



LIGO Construction at 300 m seg2.3.sac Spectra

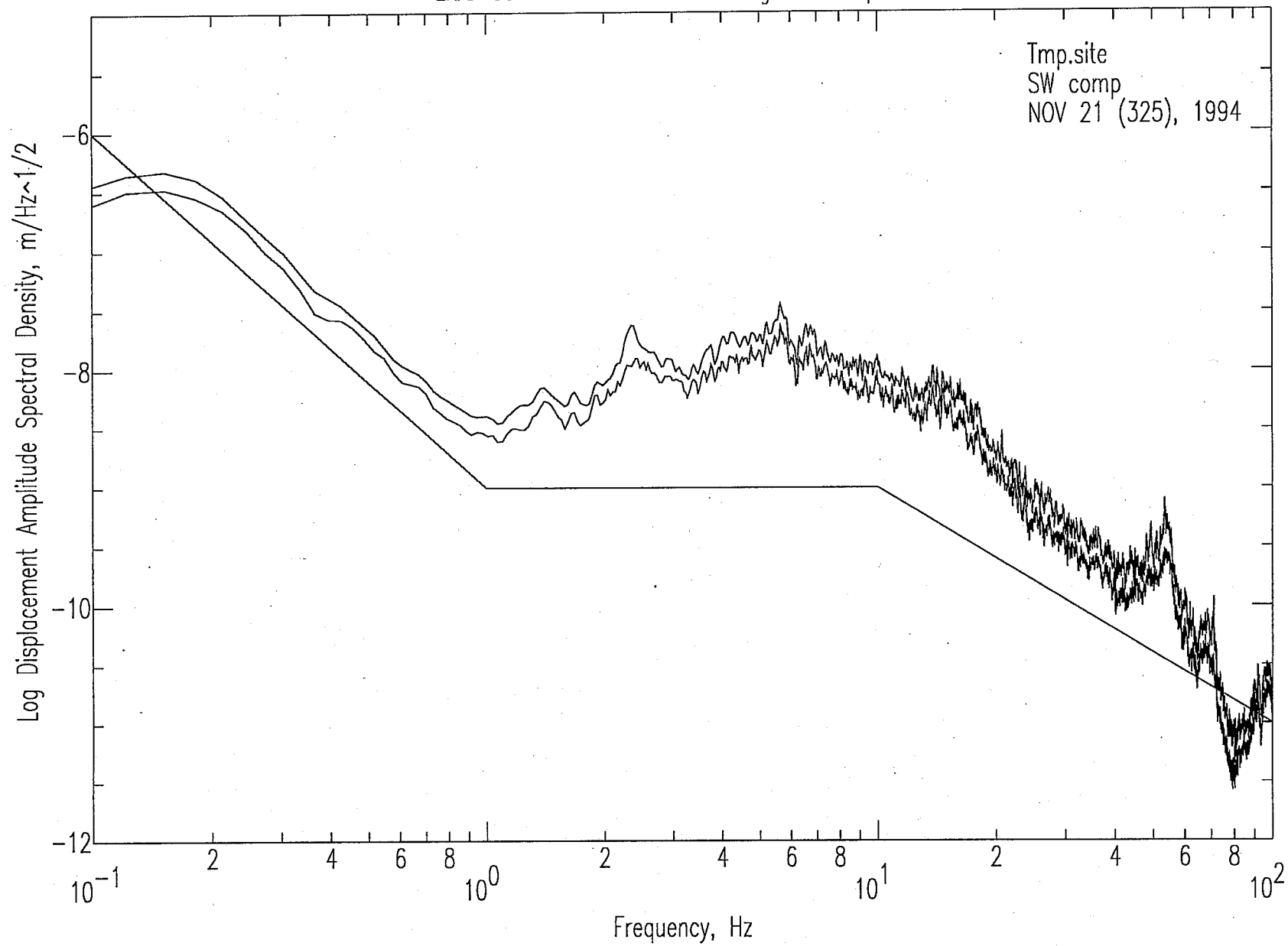


## LIGO Construction at 300 m seg3.3.sac Spectra



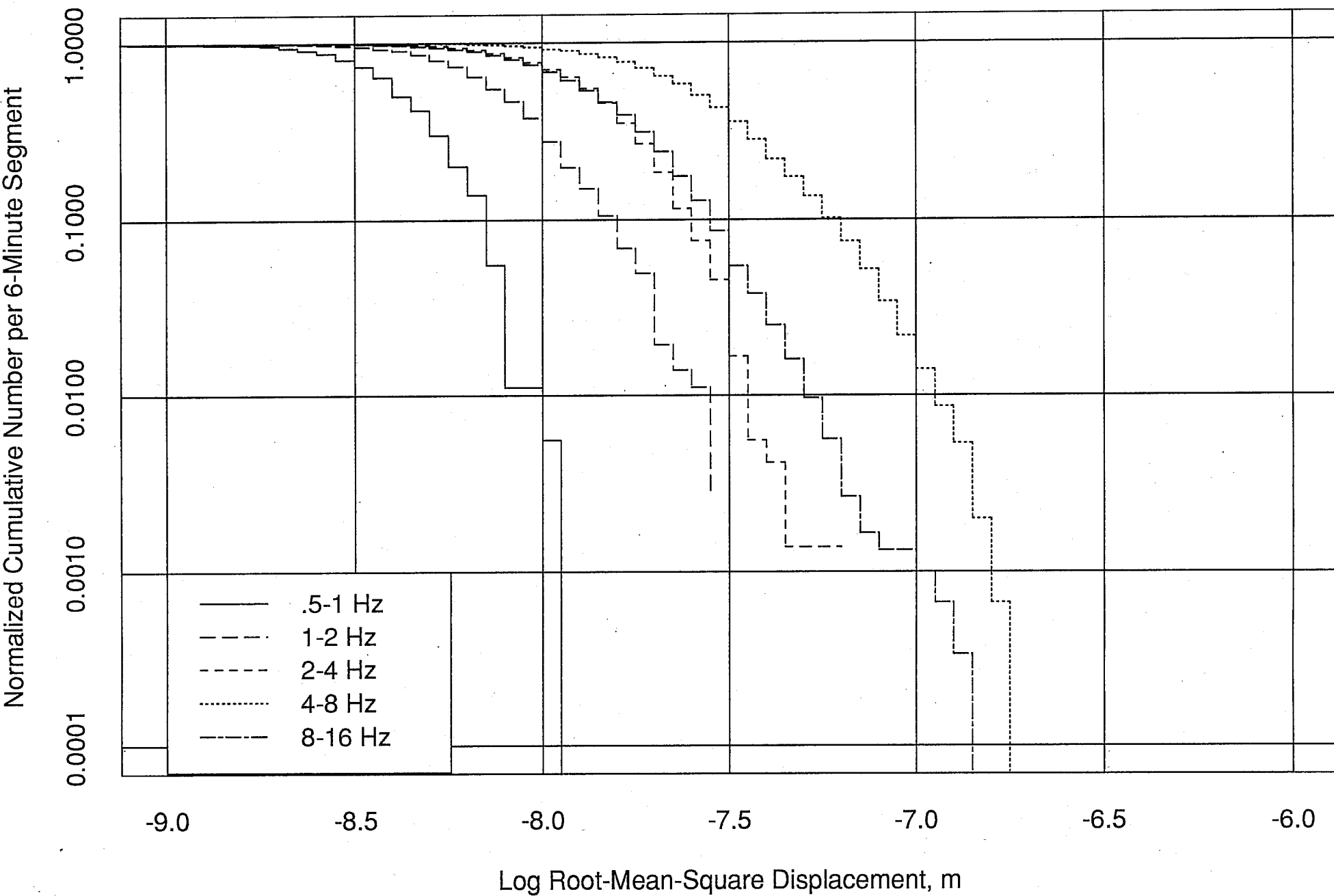


LIGO Construction at 300 m seg4.3.sac Spectra



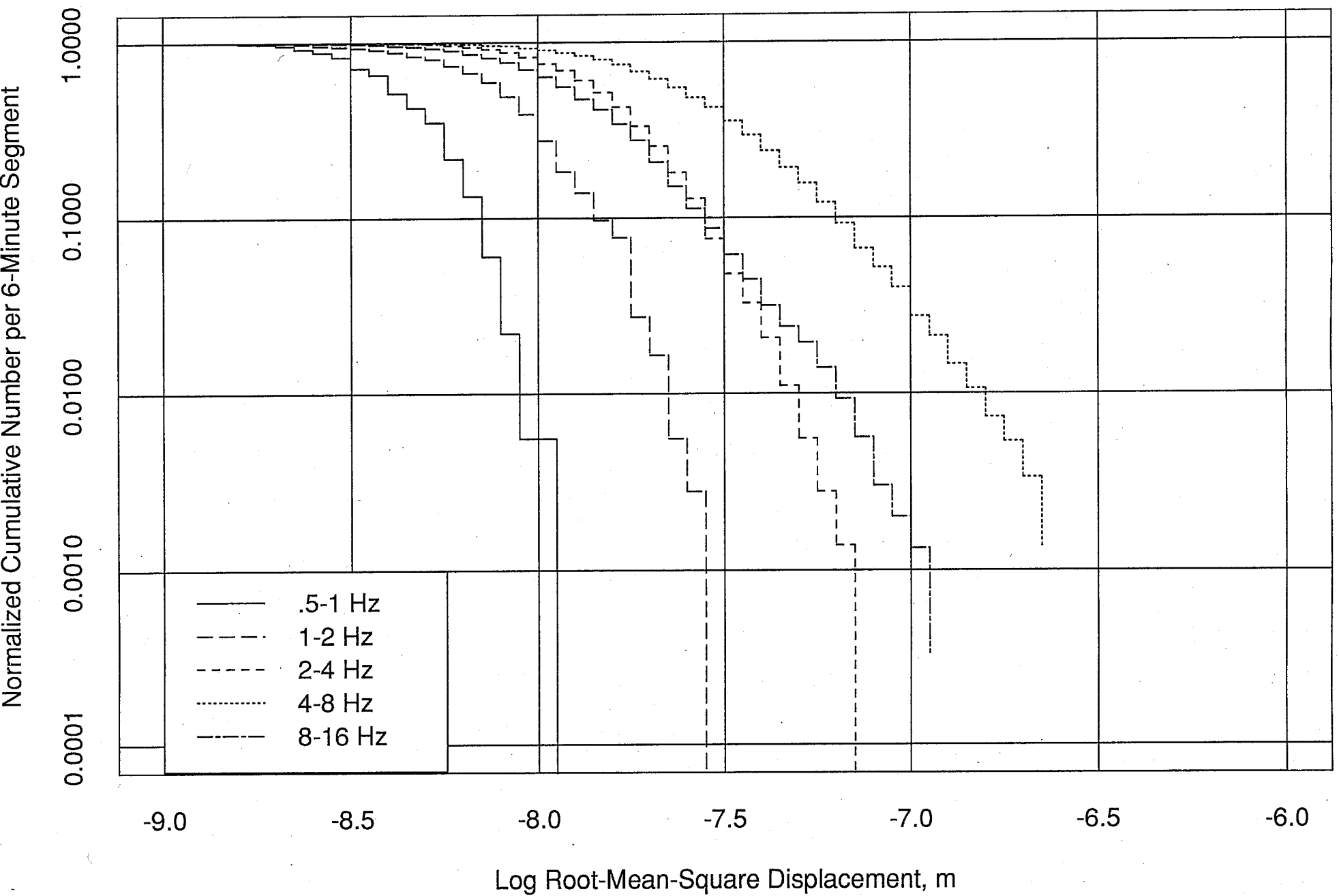
# LIGO Construction at 300 M Vertical Component seg1

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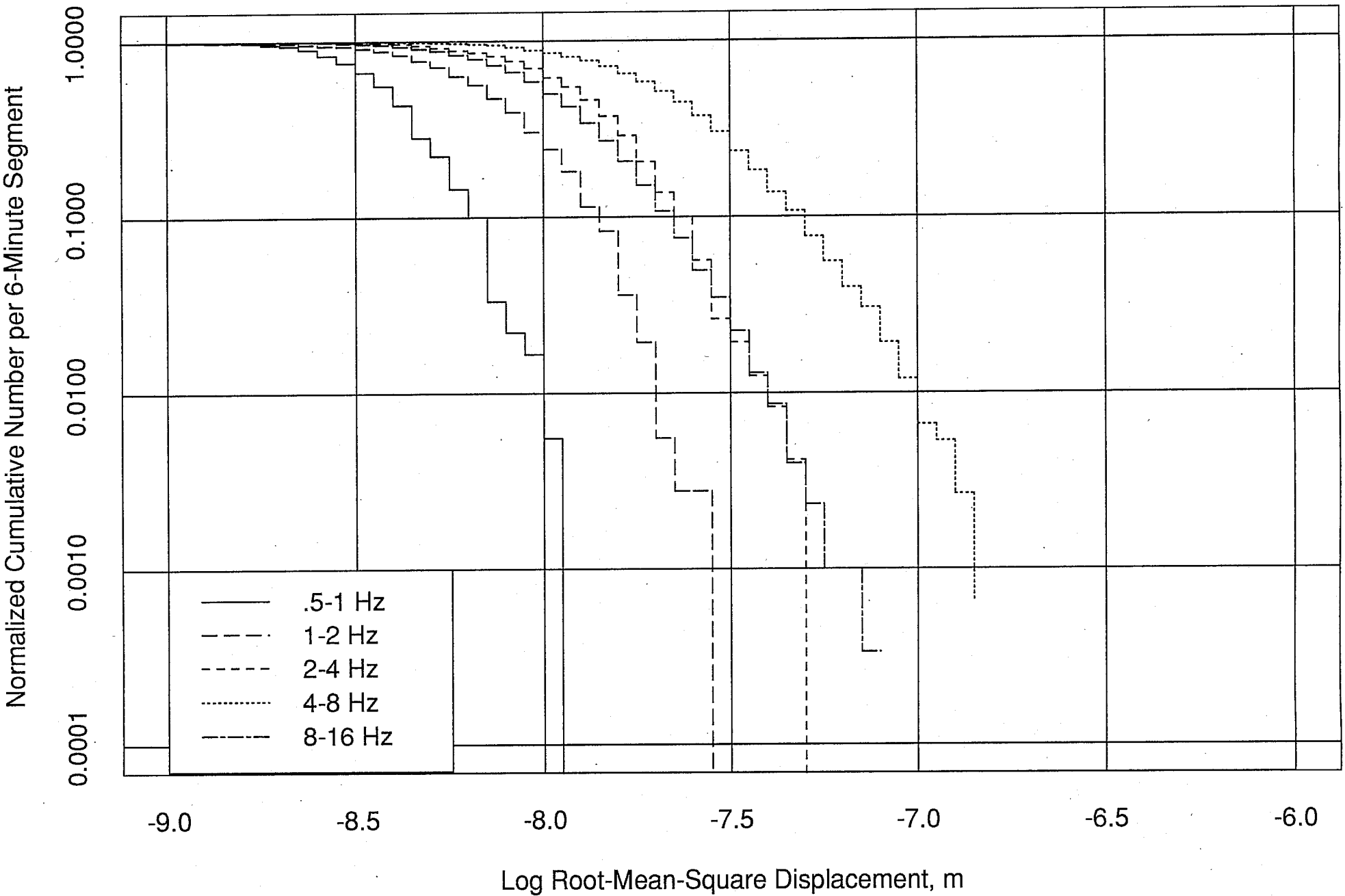
# LIGO Construction at 300 M Vertical Component seg2

LIGO-C950579-00-0



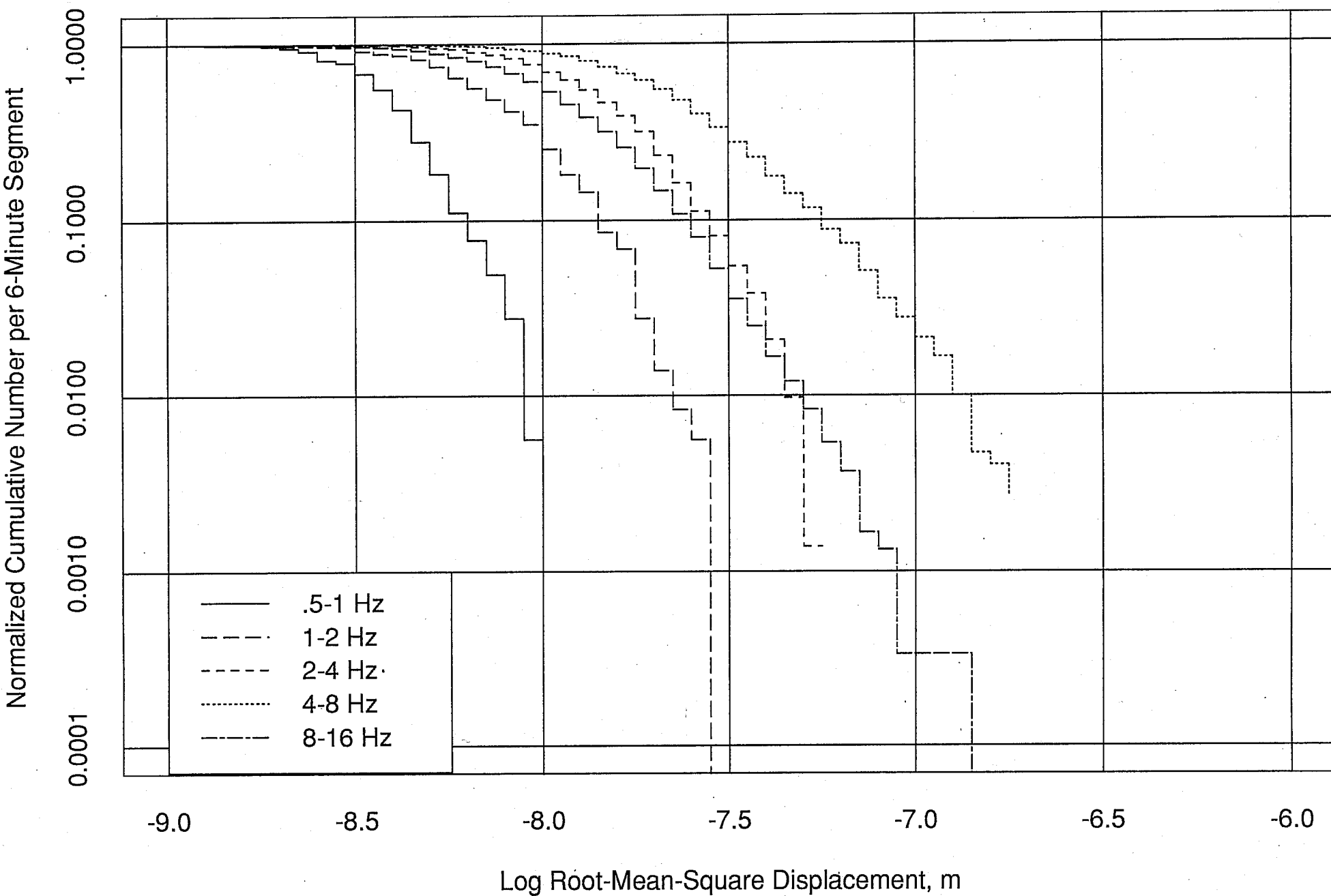
# LIGO Construction at 300 M Vertical Component seg3

LIGO-C950579-00-0



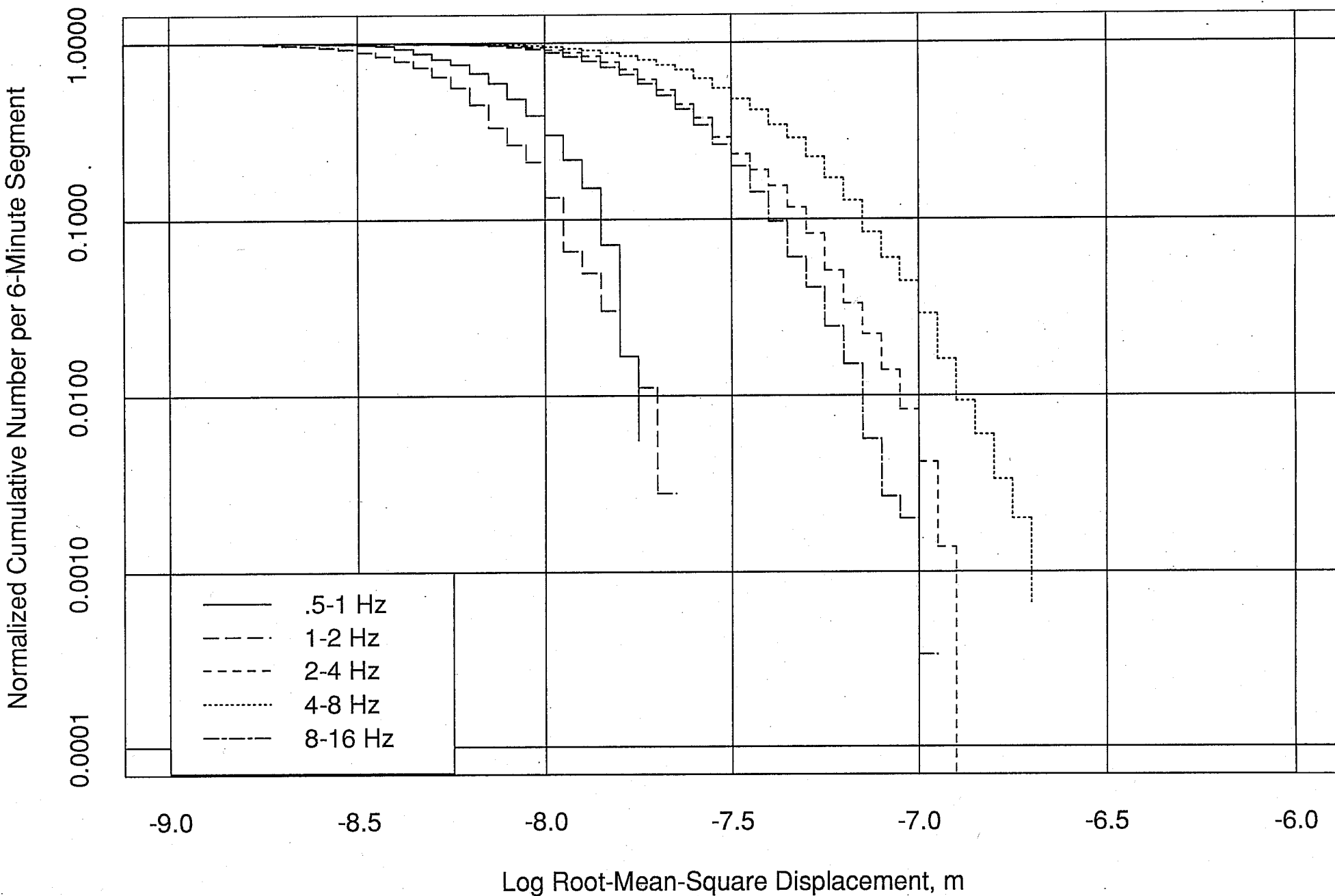
# LIGO Construction at 300 M Vertical Component seg4

LIGO-C950579-00-0



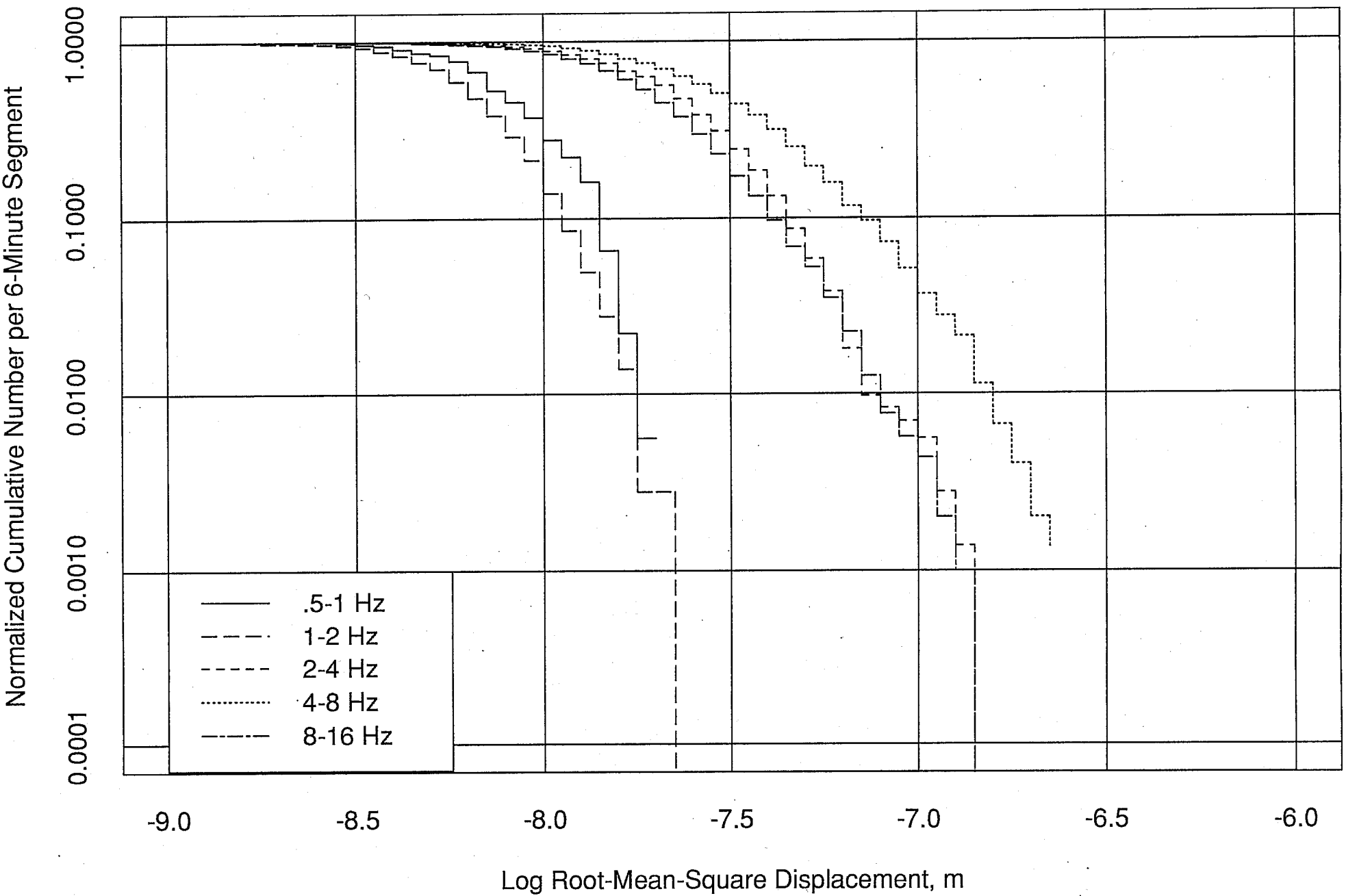
# LIGO Construction at 300 M Northwest Component seg1

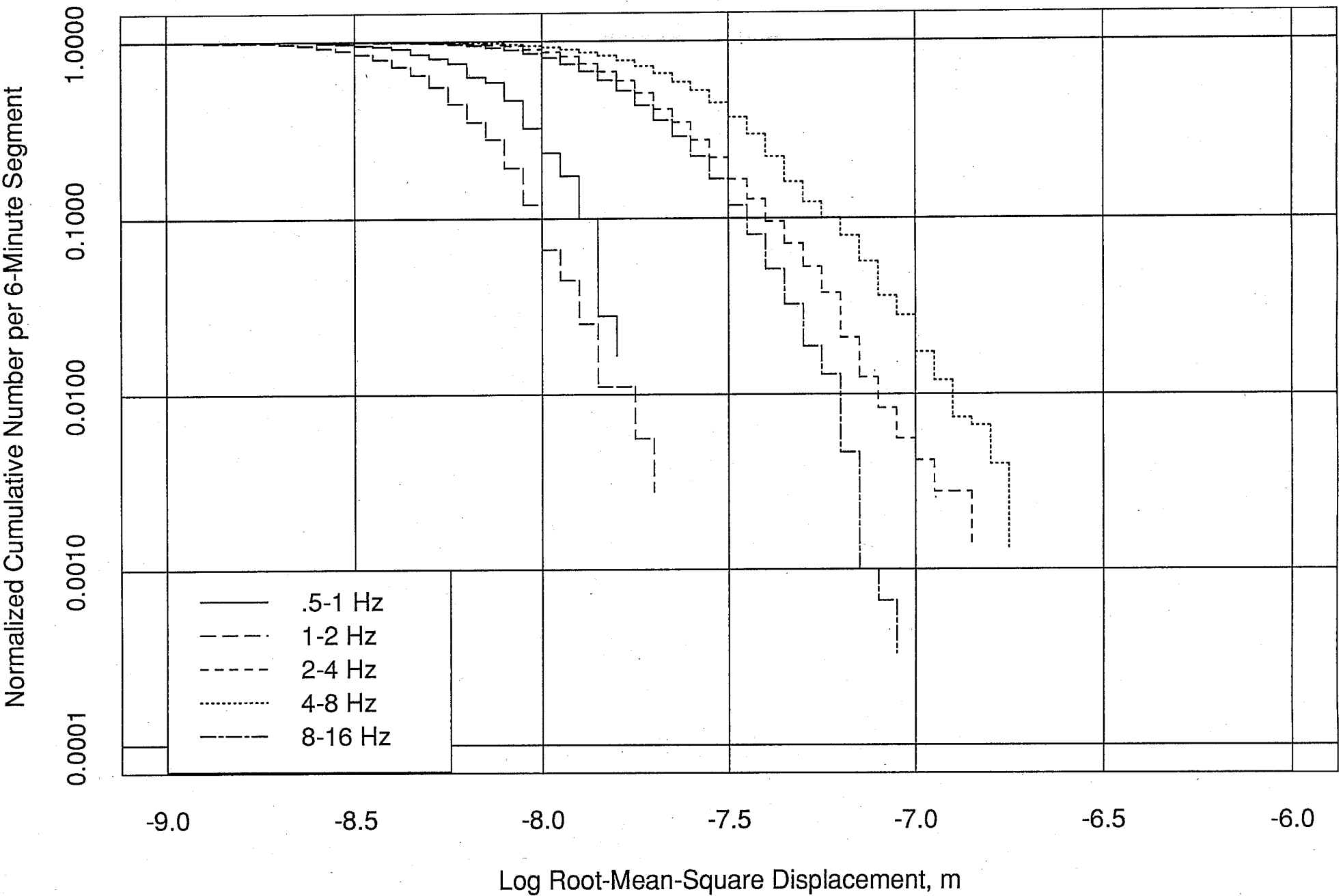
LIGO-C950579-00-0



# LIGO Construction at 300 M Northwest Component seg2

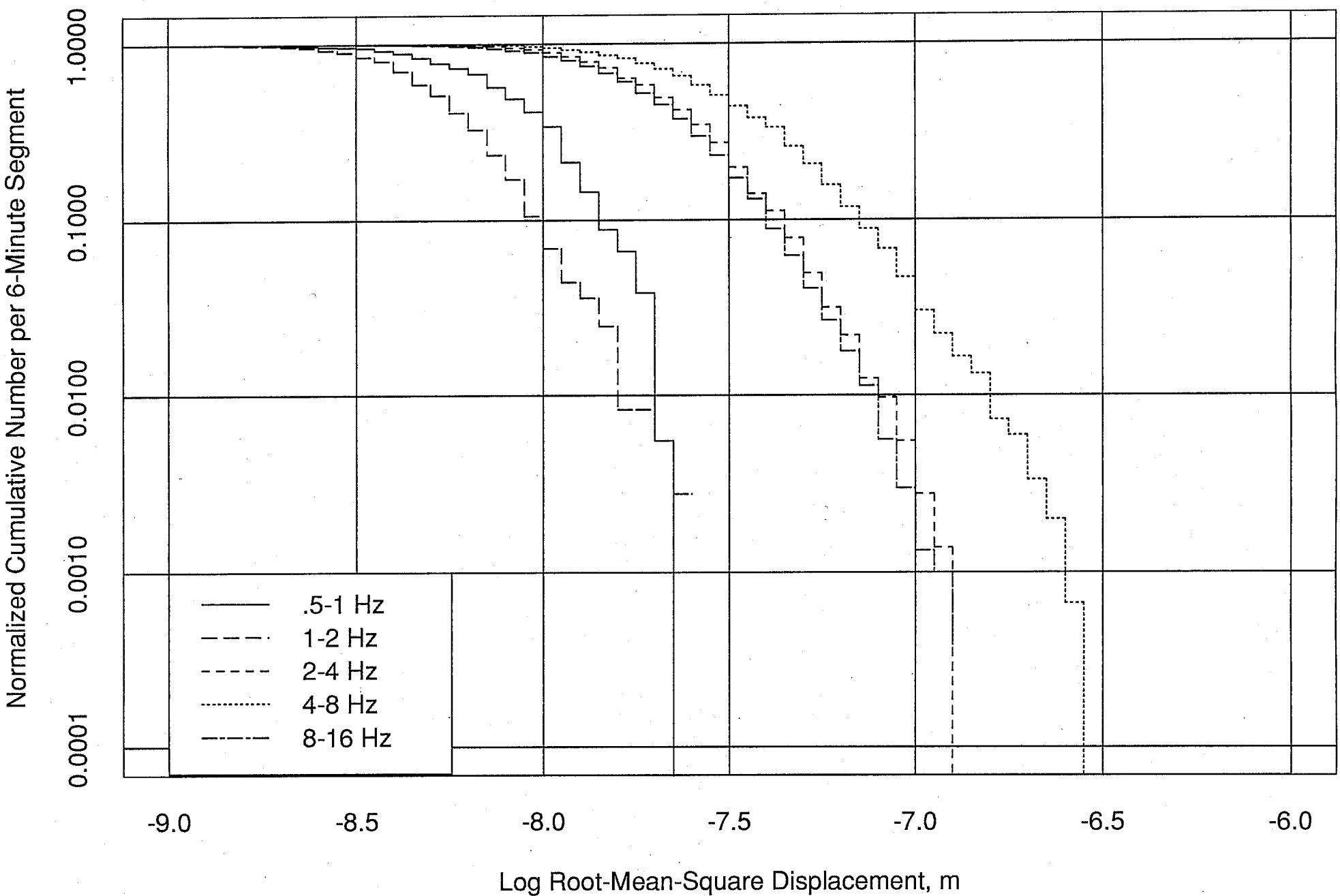
LIGO-C950579-00-0



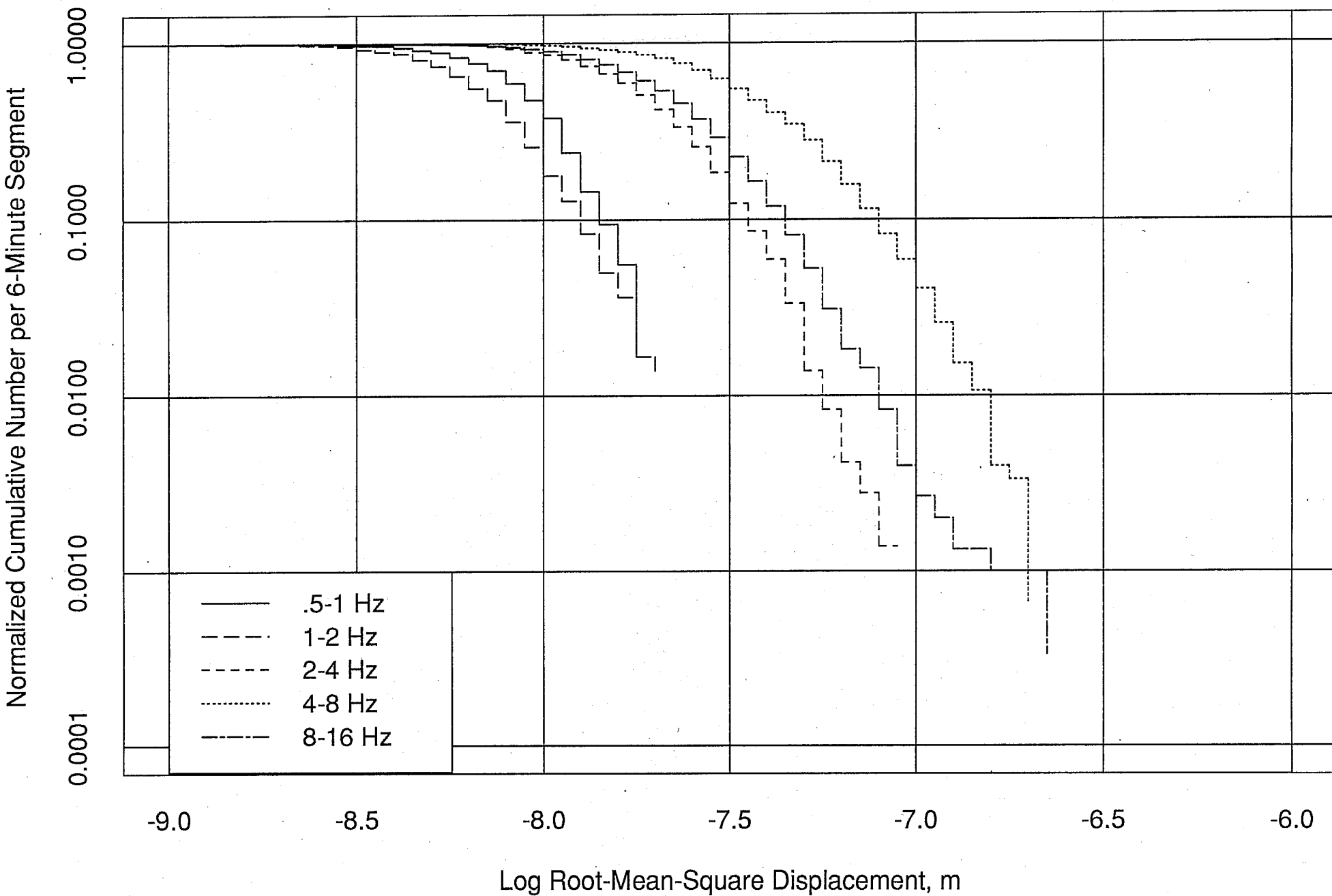


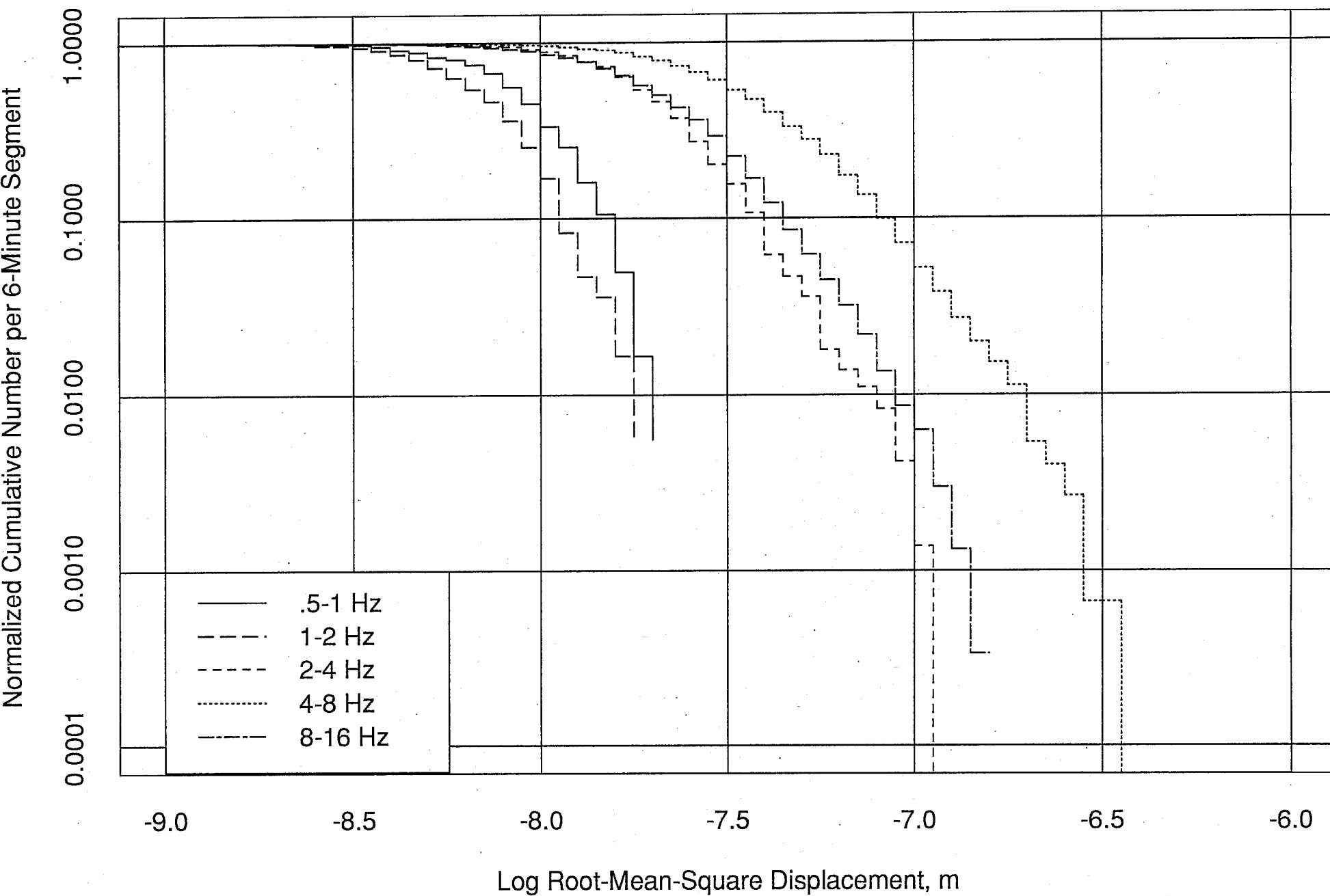


# LIGO Construction at 300 M Northwest Component seg4 LIGO-C950579-00-0

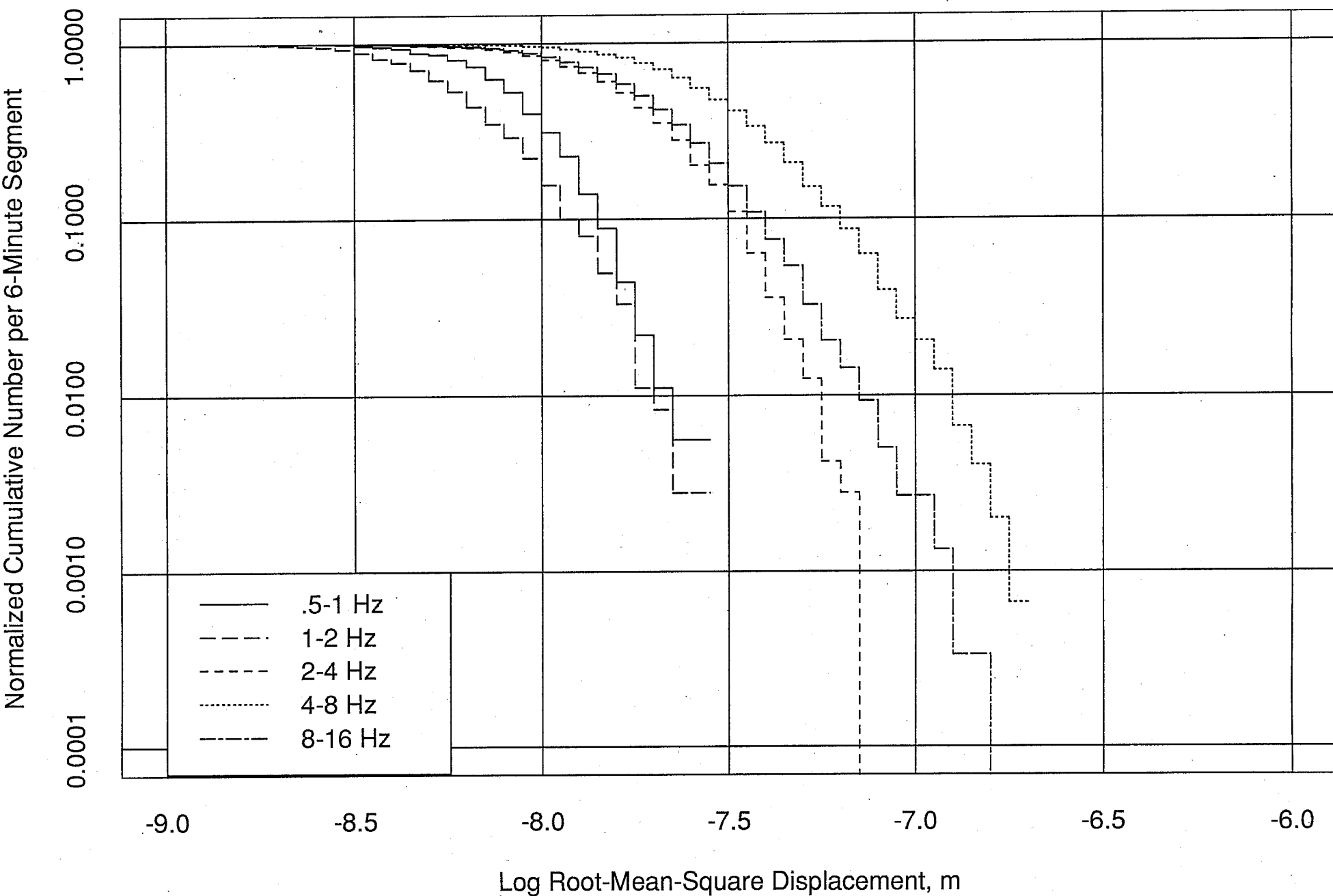


# LIGO Construction at 300 M Southwest Component seg1 LIGO-C950579-00-0





# LIGO Construction at 300 M Southwest Component seg3 LIGO-C950579-00-0



# LIGO Construction at 300 M Southwest Component seg4 LIGO-C950579-00-0

