EDGES Data Releases

Low-band data release 1 (2018)

The data below were used in the analysis and plots presented in Bowman, Rogers, Monsalve, Mozdzen & Mahesh, An absorption profile centred at 78 megahertz in the sky-averaged spectrum, *Nature,* volume 555, pages 67–70 (2018), doi:10.1038/nature25792. Please cite Bowman et al. (2018) in any publication or other work that makes use of this data.

Data for Figure 1 of Bowman et al. (2018)

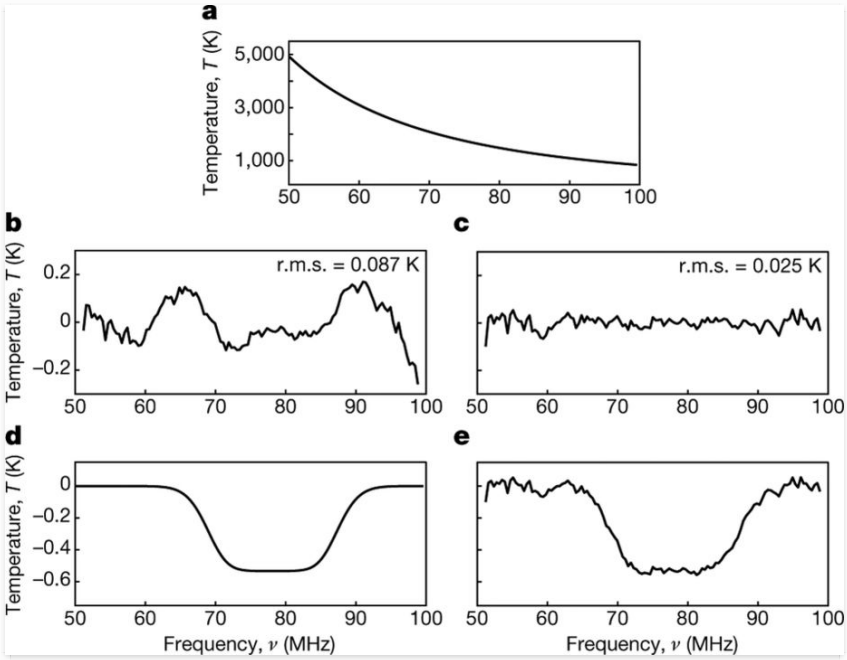

Figure 1 of Bowman et al. (2018)

Download: Data for Figure 1 of Bowman et al. (2018) (figure1_plotdata.csv, 8 kB)

The data used for Figure 1 are from low-1 (configuration H2) and span 2016 day 252 through 2017 day 94, processed as described in the Methods section of the paper. The data are presented in tabular form in a CSV comma delimited file. Each row is a different frequency between 50 and 100 MHz with spectral resolution 0.390625 MHz, yielding 128 rows of data. The file begins with header row that labels the columns. There are seven columns providing the data used for the different curves plotted in Figure 1 panels (a) through (e).

```
figure1_plotdata.csv
129 rows (1 header row), 7 columns
8 kB
---------------------------------
column 1: Frequency [MHz]
column 2: Weight - 0 or 1 specifying the validity of the data at that fr
equency
column 3: Tsky [K] - integrated sky spectrum used for the model fitting,
 plotted in panel (a)
column 4: Tres1 [K] - residuals to the best-fit foreground-only (5-term
physical model), plotted in panel (b)
column 5: Tres2 [K] - residuals to the best-fit combined foreground and
21cm model, plotted in panel (c)
column 6: Tmodel [K] - best-fit 21cm model, plotted in panel (d)
column 7: T21 [K] - Combined Tmodel + Tres2, plotted in panel (e)
```

Data for Figure 2 of Bowman et al. (2018)

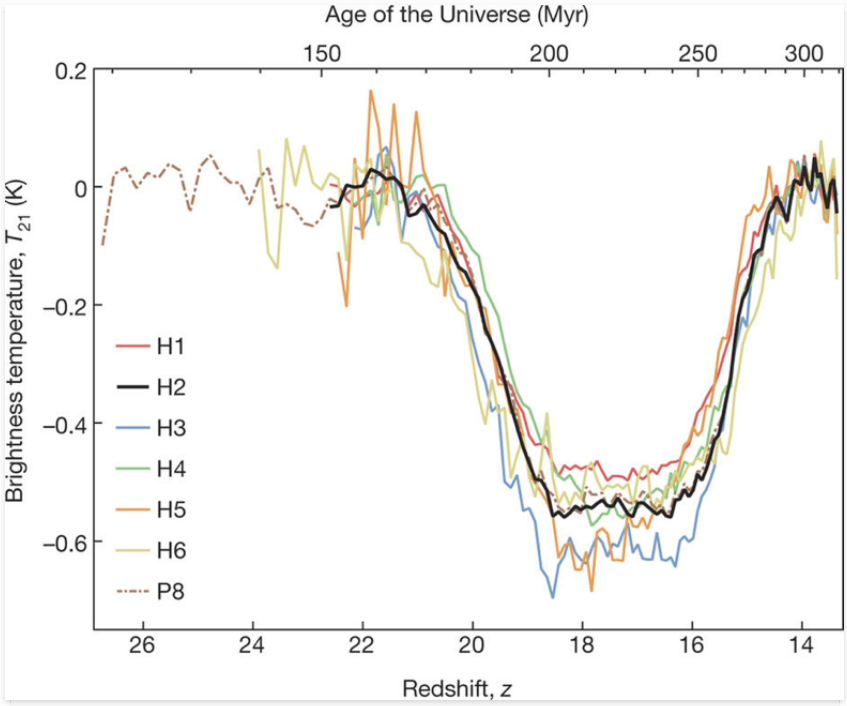

Figure 2 of Bowman et al. (2018)

Download: Data for Figure 2 of Bowman et al. (2018) (figure2_plotdata.csv, 21 kB)

The data used for Figure 2 are from low-1 and low-2 instruments with several hardware and processing configurations and span 2016-2017, processed as described in the Methods section of

the paper. The data are presented in tabular form in a CSV comma delimited file. Each row is a different frequency between 50 and 100 MHz with spectral resolution 0.390625 MHz, yielding 128 rows of data. The file begins with header row that labels the columns. There are 17 columns providing the data used for the different curves plotted in the figure. The curves for hardware cases H1-H5 were created with processing case P6 using only data between frequencies 60-99 MHz. Hardware case H6 was processed using data between 57-99 MHz. Case P8 uses the H2 data but processed with a larger frequency range between 51-99 MHz.

```
figure2_plotdata.csv
129 rows (1 header row), 17 columns
21 kB
---------------------------------
column 1: Frequency [MHz]
column 2: Redshift (z)
column 3: Age of universe [Myr] calculated using Planck 2016 cosmology
column 4: Hardware case H1 - Weight (0 or 1 specifying the validity of t
he data at that frequency)
column 5: Hardware case H1 - T21 [K] (best-fit 21cm model plus residuals
 to model)
column 6: Hardware case H2 - Weight
column 7: Hardware case H2 - T21 [K]
column 8: Hardware case H3 - Weight
column 9: Hardware case H3 - T21 [K]
column 10: Hardware case H4 - Weight
column 11: Hardware case H4 - T21 [K]
column 12: Hardware case H5 - Weight
column 13: Hardware case H5 - T21 [K]
column 14: Hardware case H6 - Weight
column 15: Hardware case H6 - T21 [K]
column 16: Hardware case H2 with processing case P8 - Weight
column 17: Hardware case H2 with processing case P8 - T21 [K]
```