Take away?

- Precision can be reduced below single…

- …but not all fields/computations to half-precision.

- We can learn something about the uncertainties/inaccuracies in our models (high at small lengthscales).

- Doing this job completely will take man-hours, but save computer costs (or allow higher resolutions). Overall savings?

The future

- Bring other model sections to reduced precision - Legendre transform currently under investigation.

- Exponent bits —can we normalise within the half-precision range: $6 \times 10^{-5} - 6 \times 10^{4}$

- Do we change the distribution/behaviour of the ensemble?

- Testing these ideas in Met Office models?