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Doug McNeall<sup>1</sup>, Jonny Williams<sup>2</sup>, Ben Booth<sup>1</sup>, Richard Betts<sup>1</sup>, Peter Challenor<sup>3</sup>, Andrew Wiltshire<sup>1</sup>, and David Sexton<sup>1</sup>

<sup>1</sup>Met Office Hadley Centre, FitzRoy Road, Exeter, EX1 3PB UK

<sup>2</sup>NIWA, New Zealand

<sup>3</sup>University of Exeter, North Park Road, Exeter EX4 4QE UK

Correspondence to: Doug McNeall (doug.mcneall@metoffice.gov.uk)

**Abstract.** TEXT

## 1 Introduction

(Craig et al., 1997) (Booth et al., 2012) (Booth et al., 2013) (Huntingford et al., 2009) (Sellers et al., 1996) (Abramowitz, 2012) (Luo et al., 2012) (Williamson et al., 2014) (Kennedy and O'Hagan, 2001) (Brynjarsdóttir and O'Hagan, 2014) (Higdon et al., 2008) (Jones et al., 2005) (Smith et al., 2008) (Gordon et al., 2000) (Pope et al., 2000) (Cox, 2001) (Smith, 2012) (Williams et al., 2013) (Williams et al., 2014) (Gnanadesikan and Stouffer, 2006) (McKay et al., 1979) (Urban and Fricker, 2010) (Gregoire et al., 2010) (Loveland et al., 2000) (Roustant et al., 2012) (R Core Team, 2016) (Vernon et al., 2010) (Lee et al., 2016) (Williamson et al., 2013) (Ritz et al., 2015) (McNeall et al., 2013) (Pukelsheim, 1994) (Carslaw et al., 2013) (Pujol et al., 2015) (Cox et al., 2004) (Good et al., 2008) (Joetzjer et al., 2013) (Staver et al., 2011) (Malhi et al., 2009) (Yin et al., 2012)

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