

	Version 2.2.1	Version 3.0
Operational	10 Nov 13	14 Apr 16
Domain	0–360° E, 75° N–75° S	
Horizontal resolution	0.1° (90–180° E, 16° N–75° S) 0.1–2.0° elsewhere	0.1°
Vertical resolution	5 m (0–20 m) 5–10 m (20–90 m) > 10 m (below 90 m)	
Data assimilation	BODAS (Oke et al., 2008; Andreu-Burillo et al., 2010)	EnKF-C (Sakov, 2014)
Forecast scheduling	forecast: 4 independent models run on consecutive days near-real-time analysis: –5 to 0 days behind-real-time analysis: –9 to –5 days	forecast: 3 independent models run on consecutive days near-real-time analysis: –3 to 0 days behind-real-time analysis: –6 to –3 days
Forecast period	0–144 h	
Atmospheric fluxes	surface wind stress, shortwave radiation, longwave radiation, sensible heat flux, evaporation and precipitation from the ACCESS-G model (Puri et al., 2013)	
Vertical mixing	Chen et al. (1994) modified by Power et al. (1995)	GOTM (Burchard et al., 1999) configured as k - ϵ
Topography	Smith and Sandwell version 11.1 (Smith and Sandwell, 1997)	9' around the Australian region (Whiteway, 2009) and the 30' GEBCO 08 (BODC, 2008) elsewhere
River runoff	Based on global climatology (Dai and Trenberth, 2002)	