Salinity Risk Mapping in the Macalister Irrigation District

A 28-year history of depth to water table maps



www.wgcma.vic.gov.au

Date: March 2023 Author: Anthony Goode

What do the maps show?

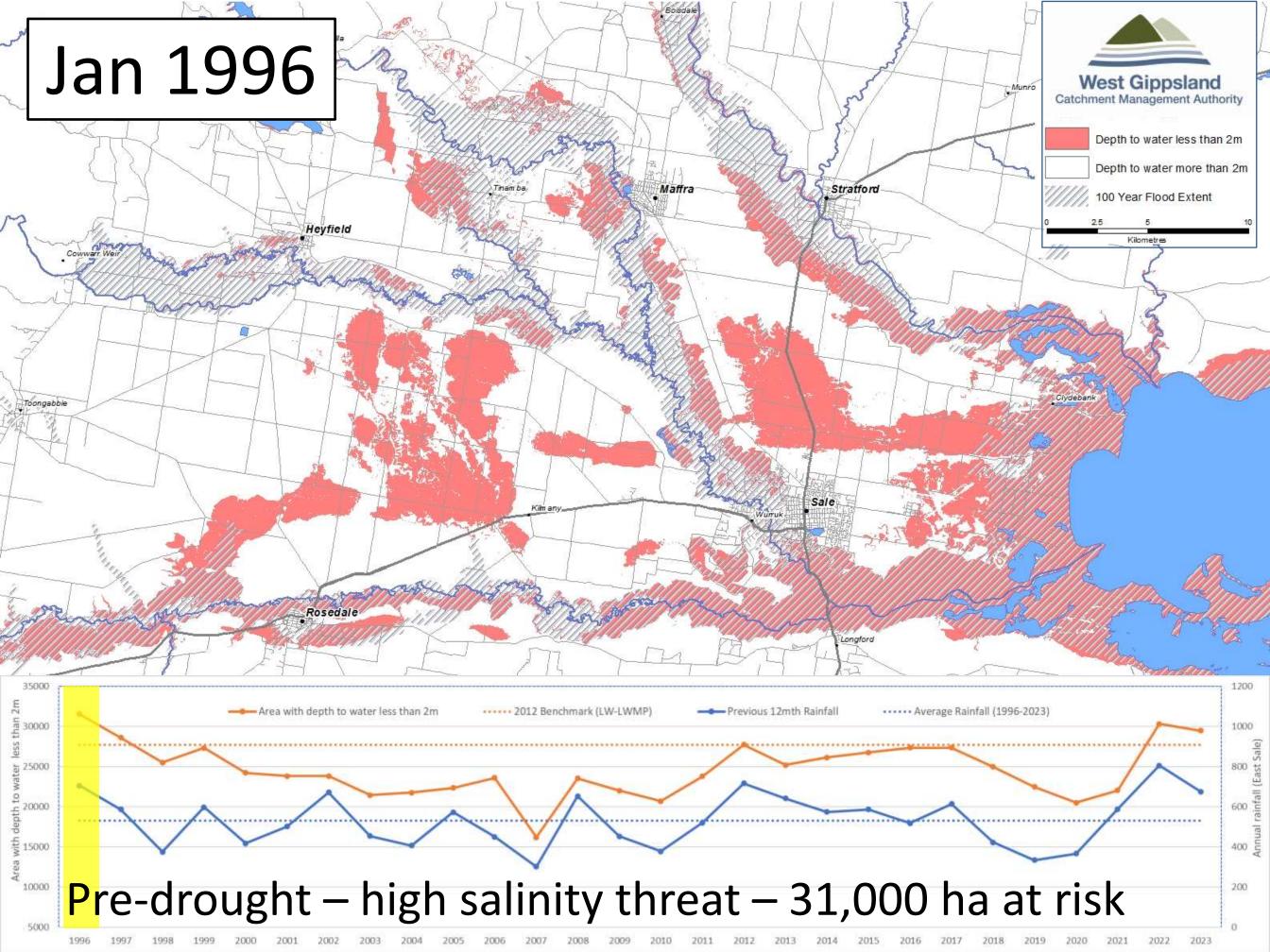
This time series of maps shows the fluctuating depth to the water table across the Macalister Irrigation Area and surrounds.

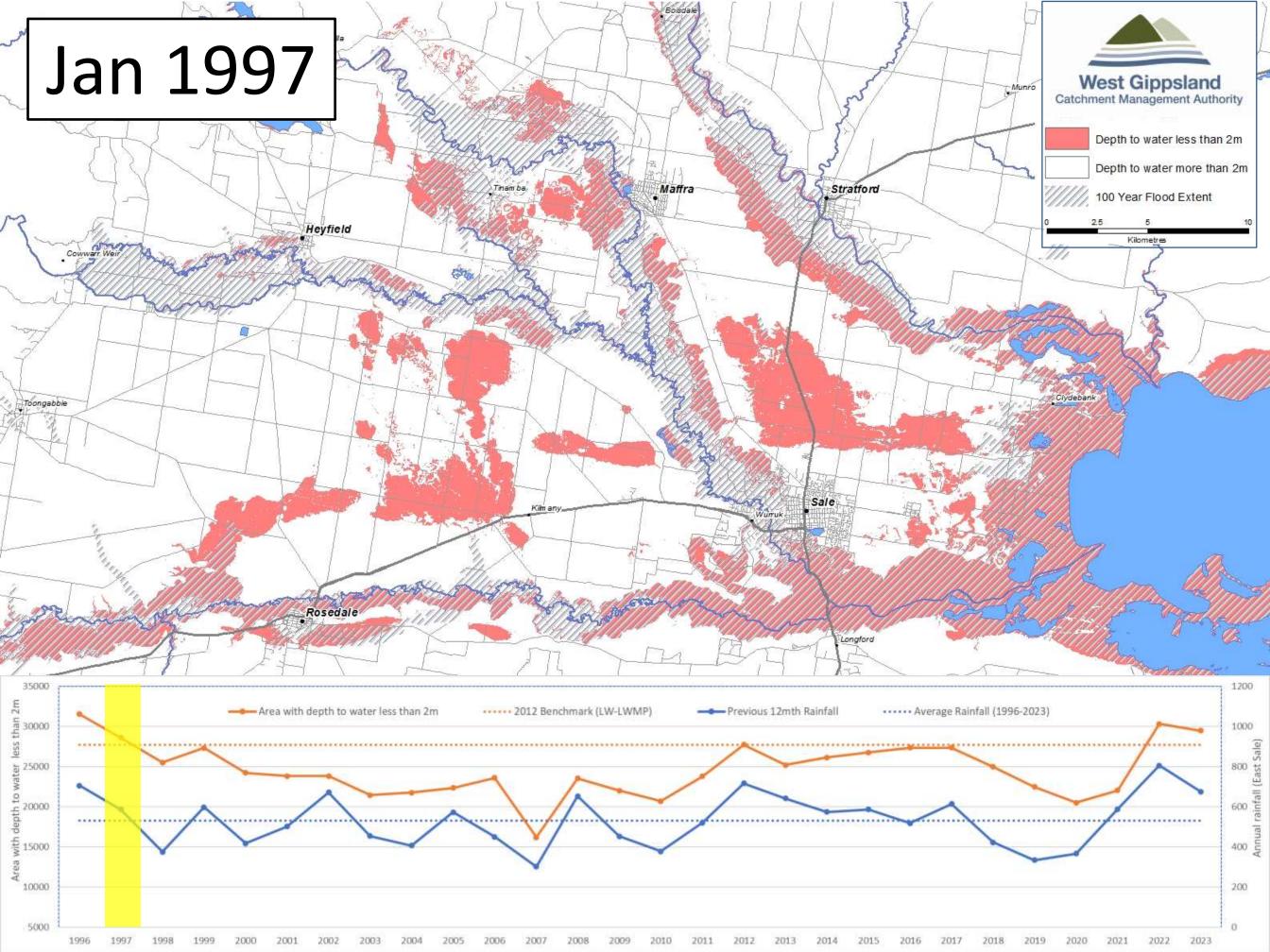
Areas where the water table is within 2m of ground surface are coloured red on the maps. These areas are more prone to land salinisation and water logging.

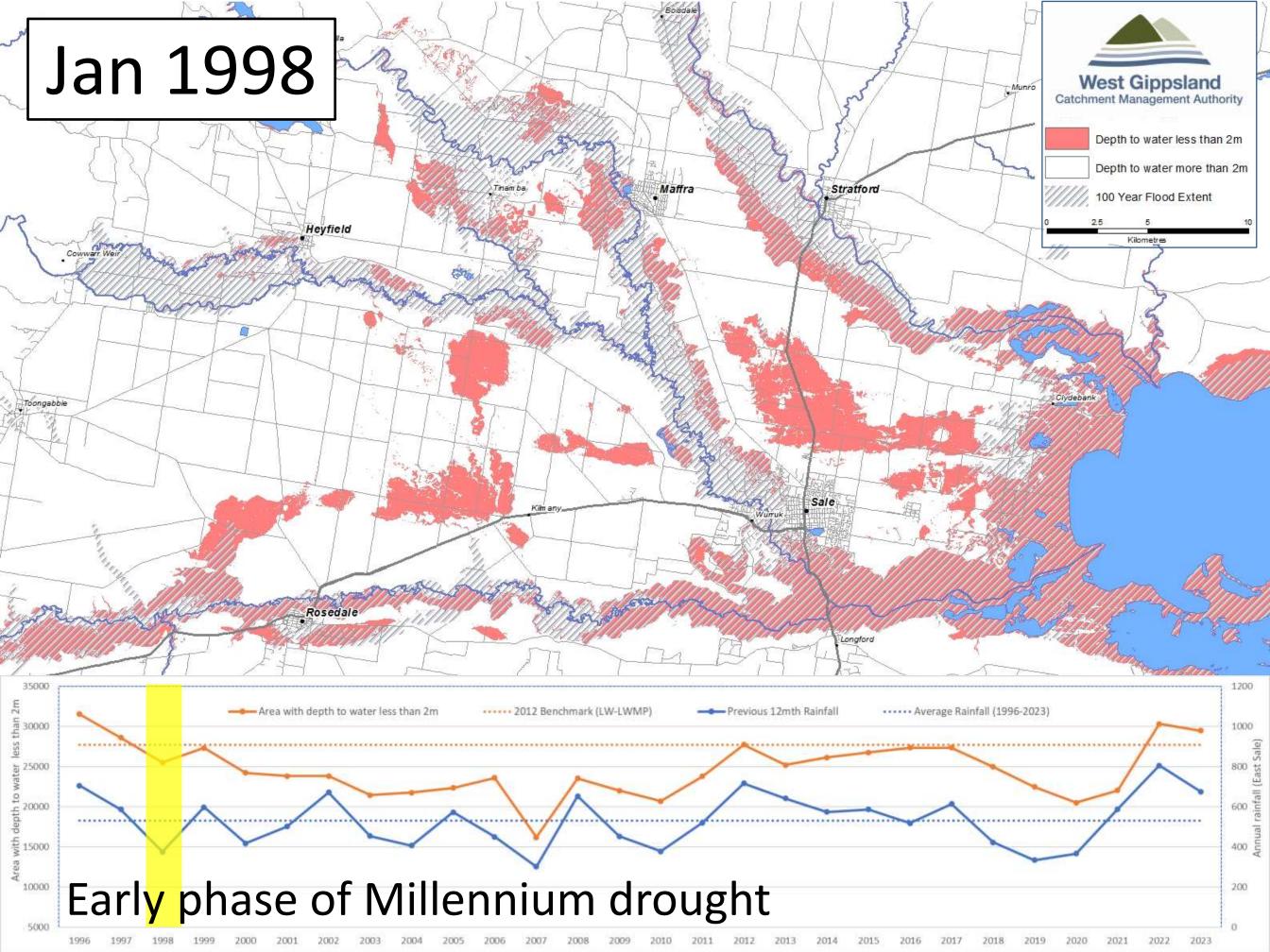
Areas subject to flooding are hashed grey as they are less prone to salinisation despite the shallow water table commonly found on floodplains.

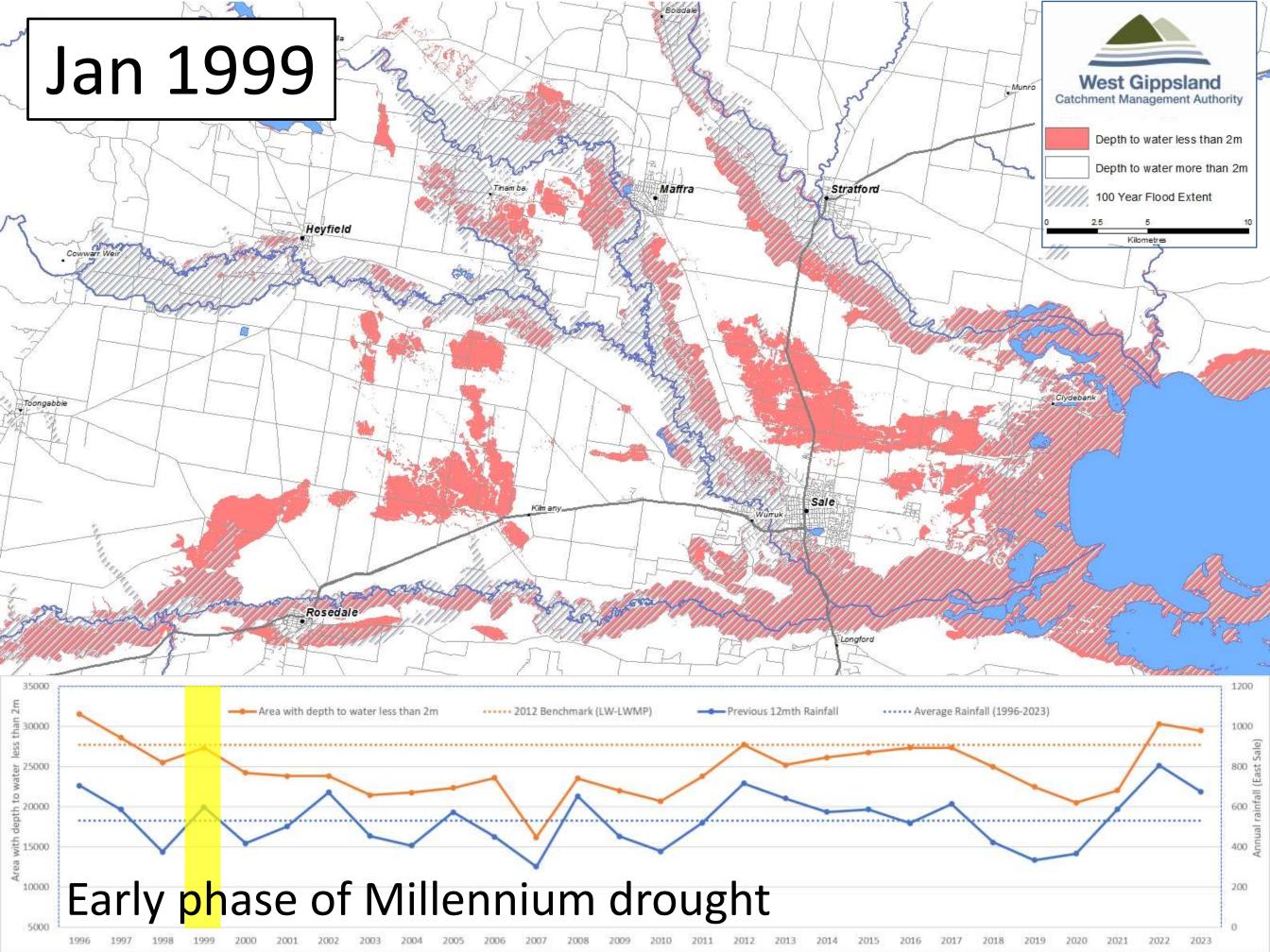
Water table response to floods and droughts is evident in the time series. As is a long-term trend of reducing areas at risk thanks to irrigation efficiency improvements and drainage management in the district.

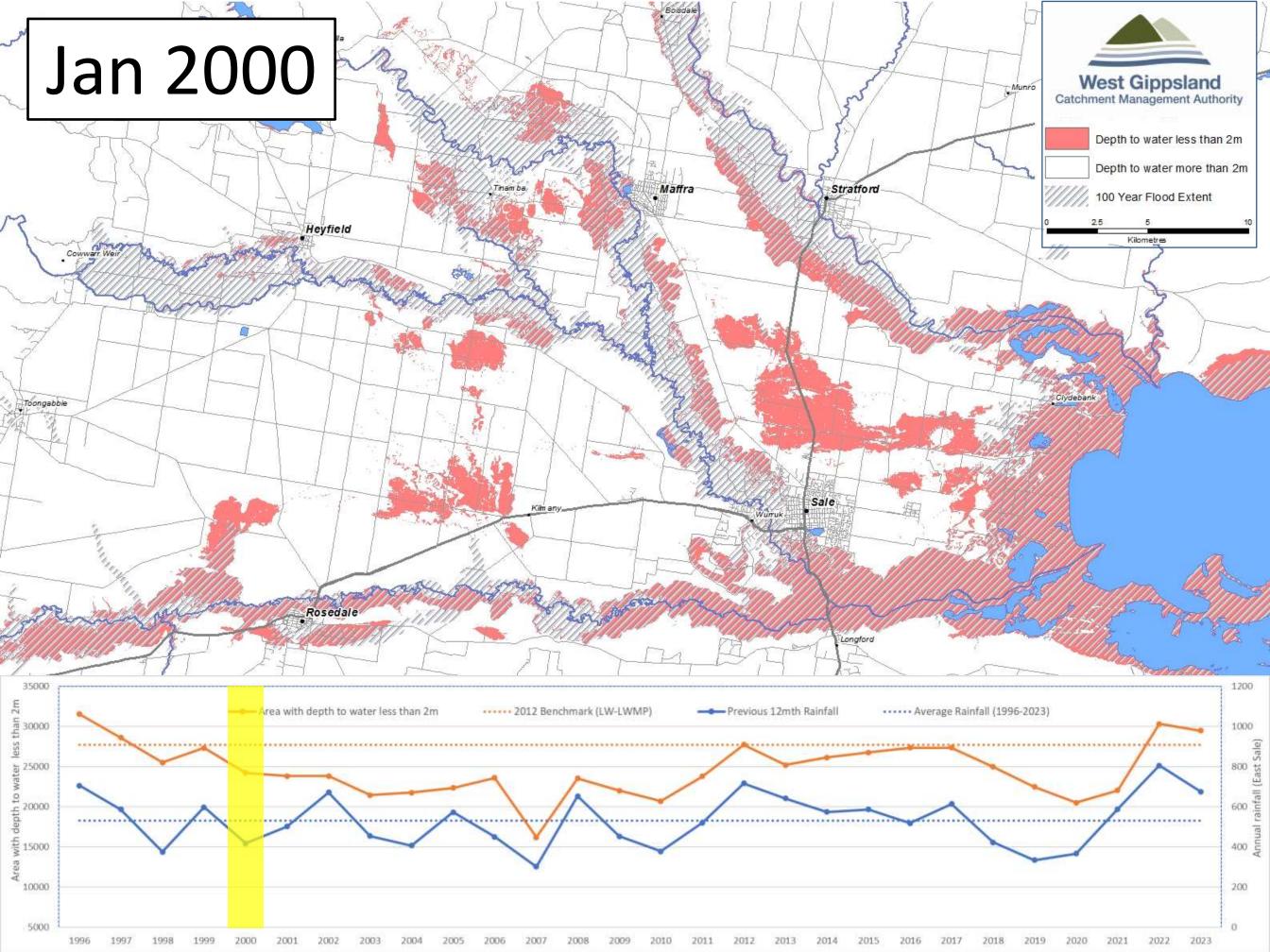


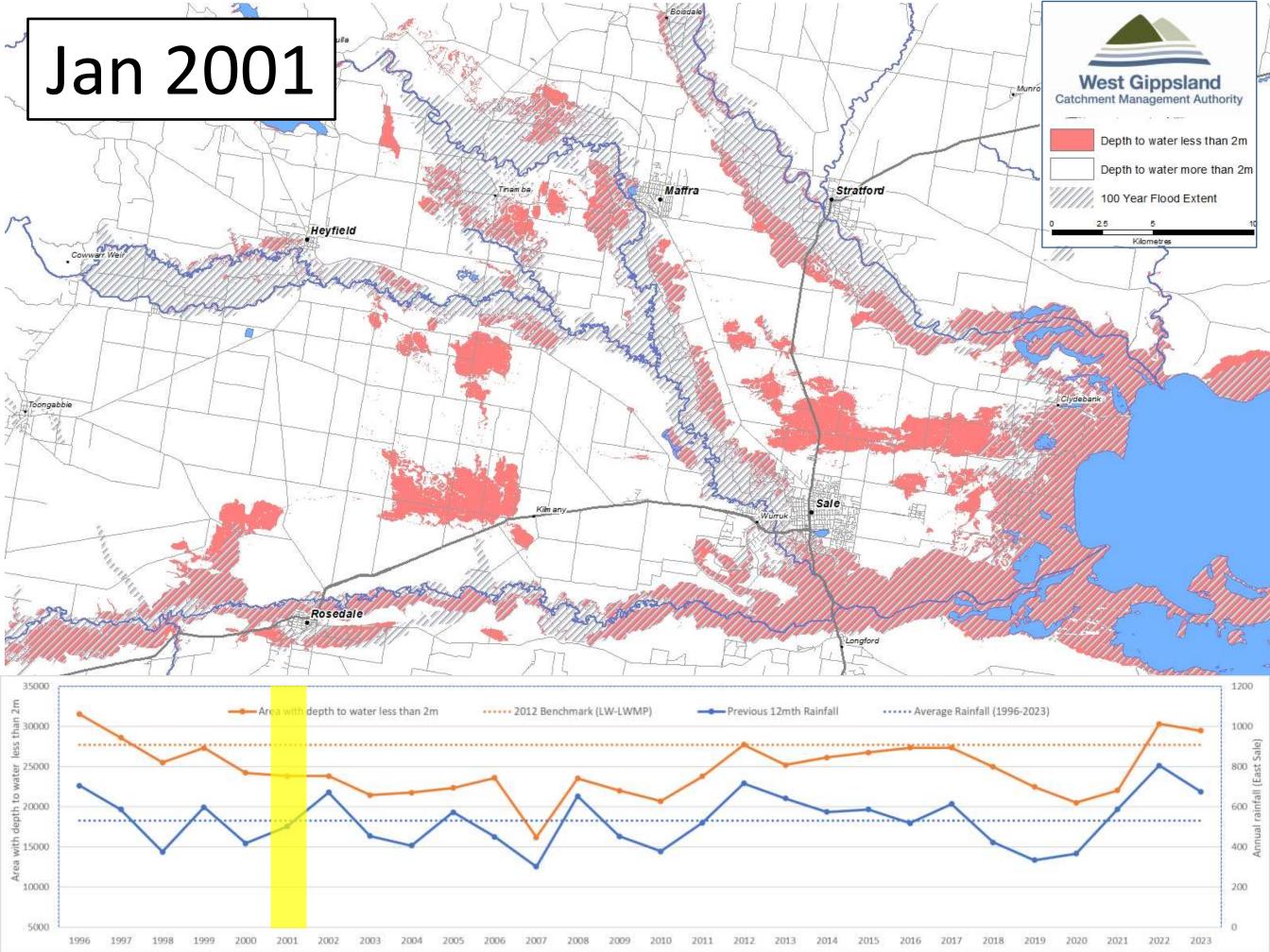


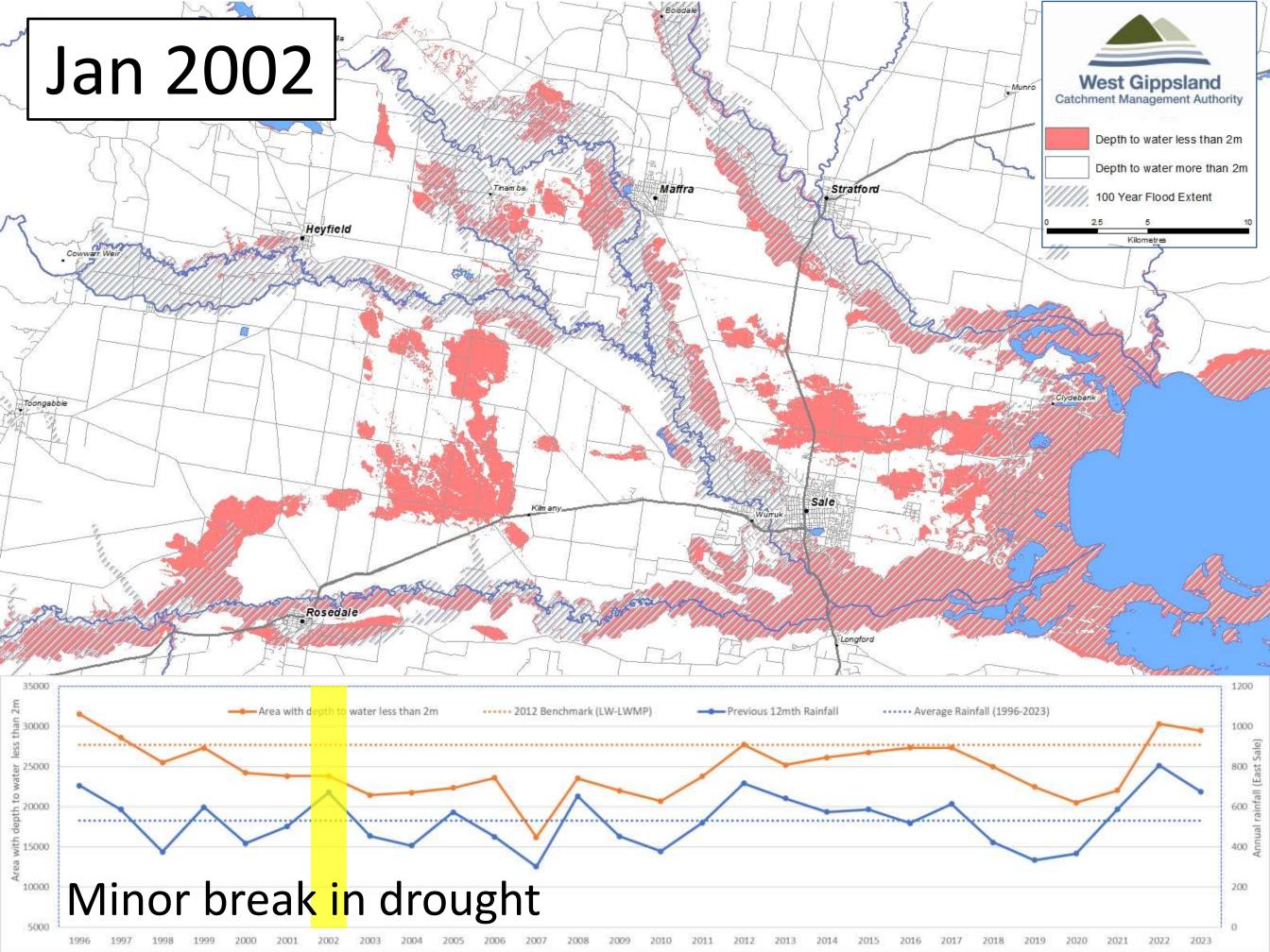


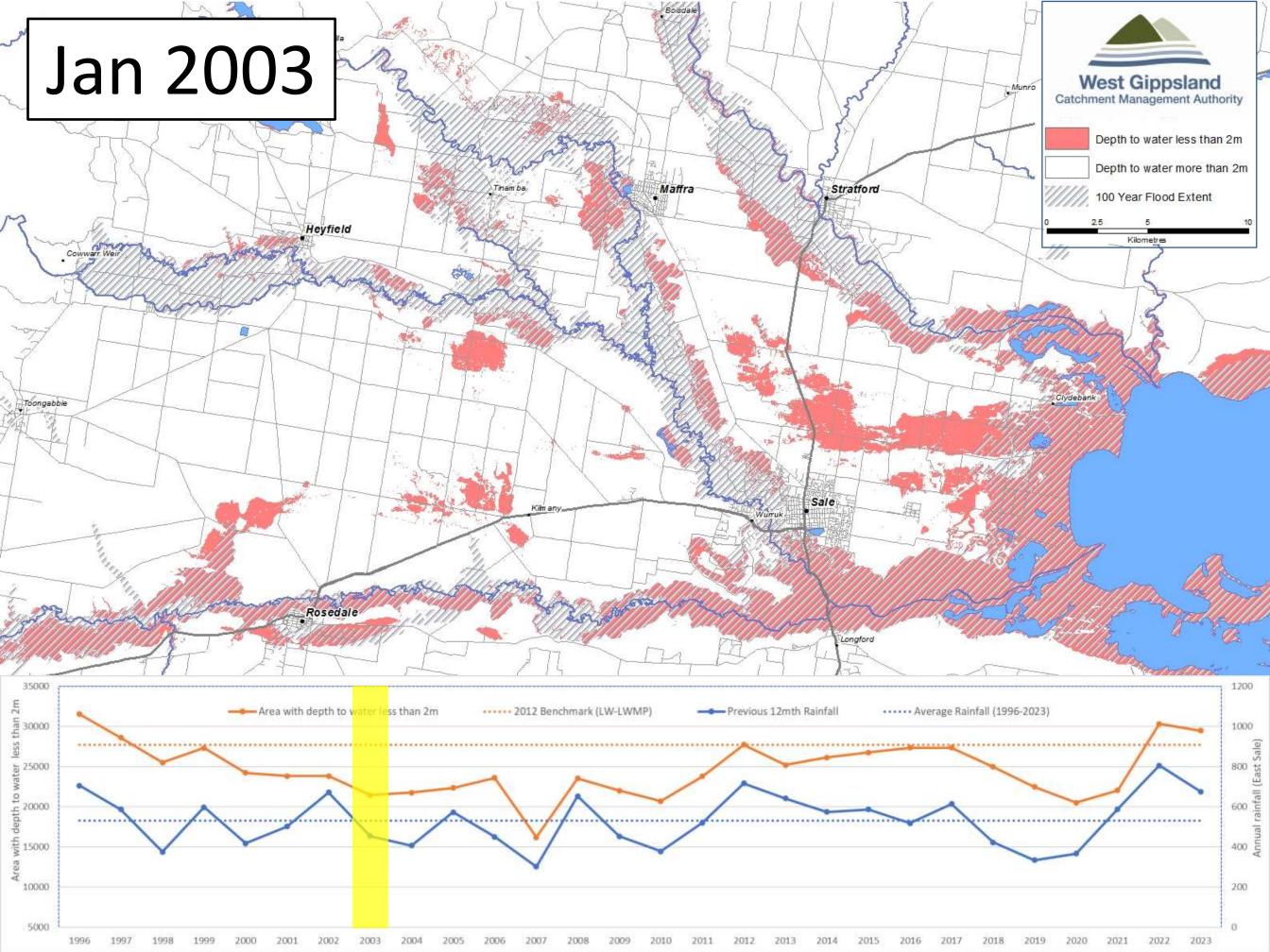


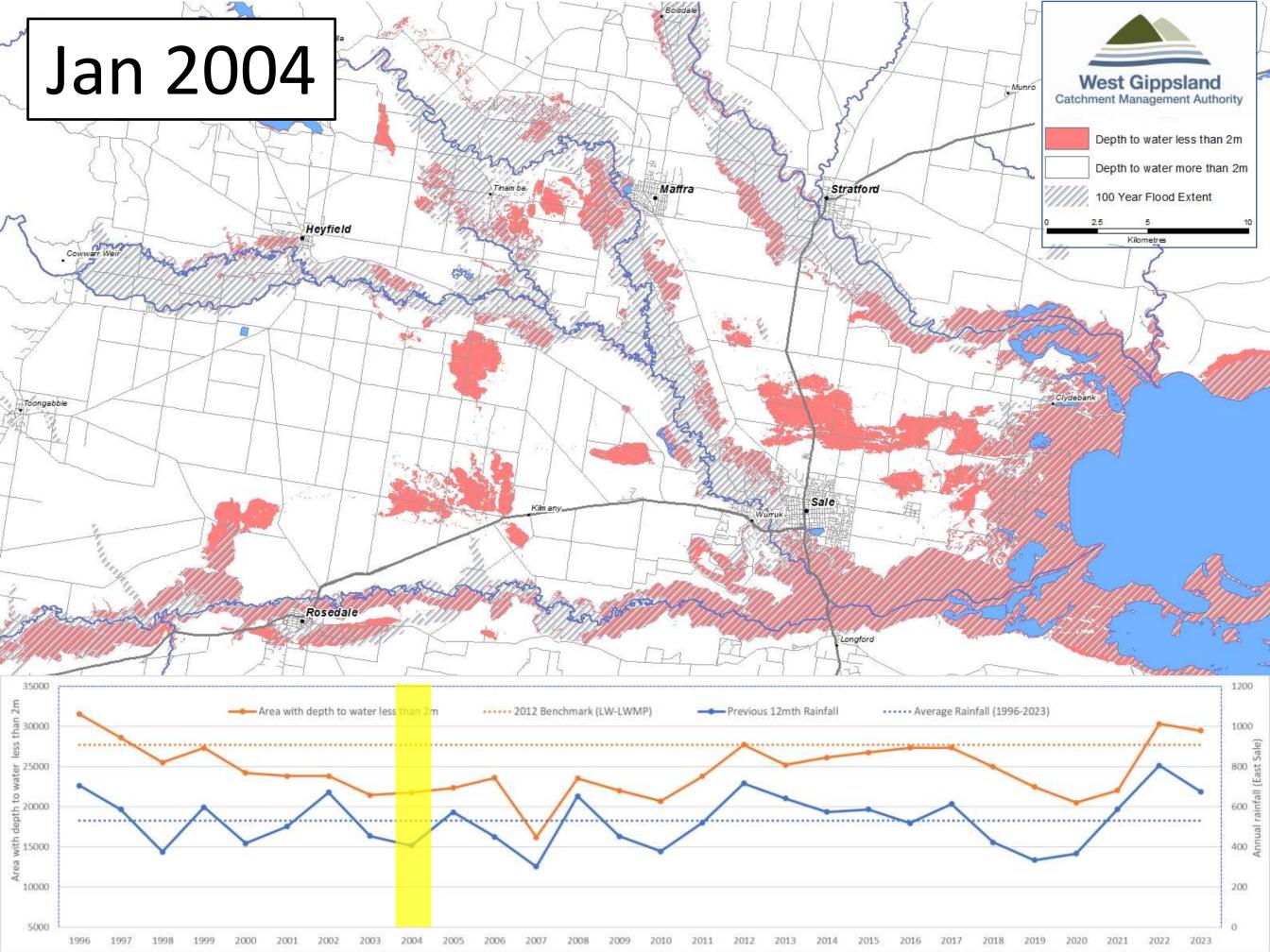


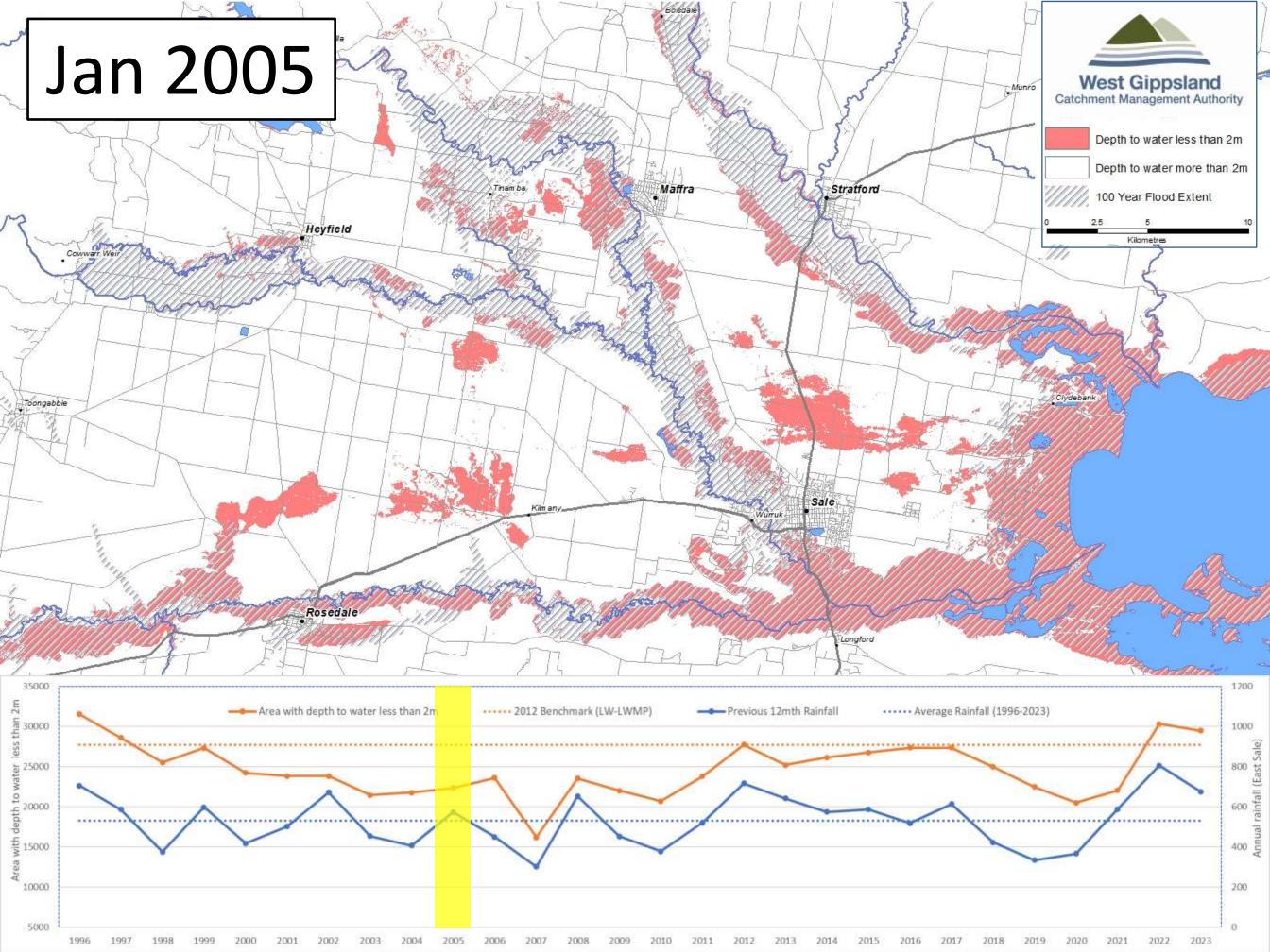


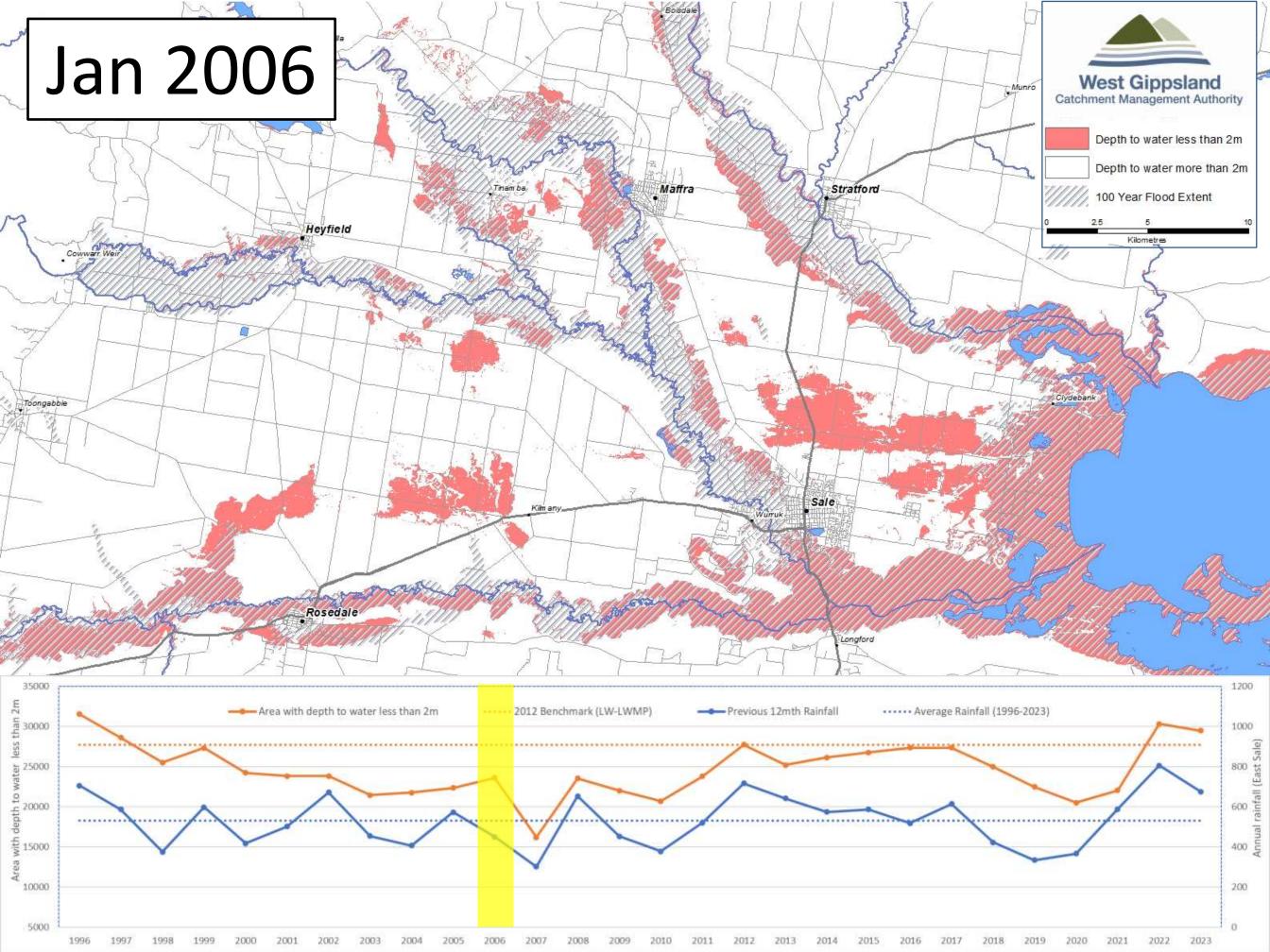


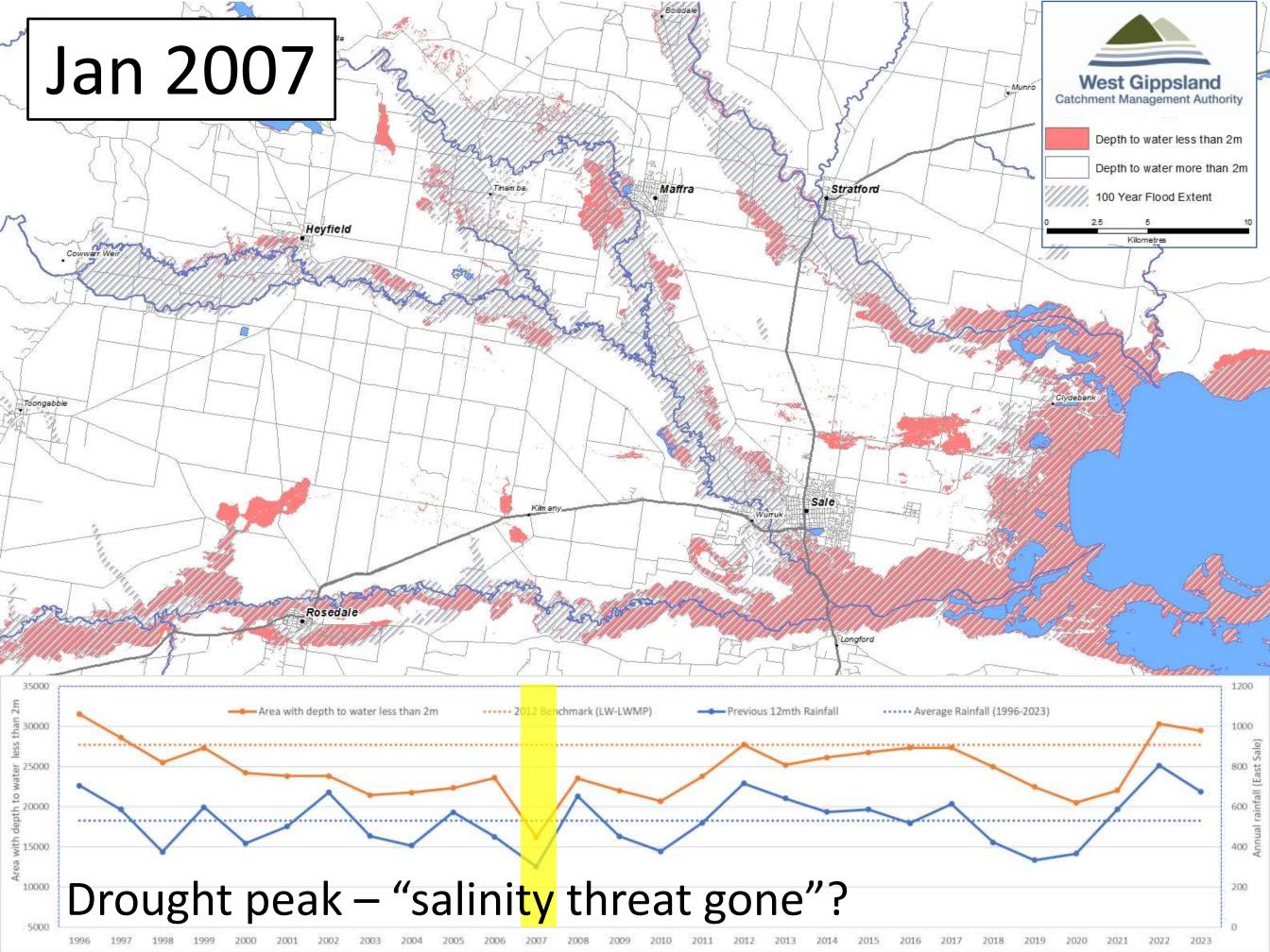


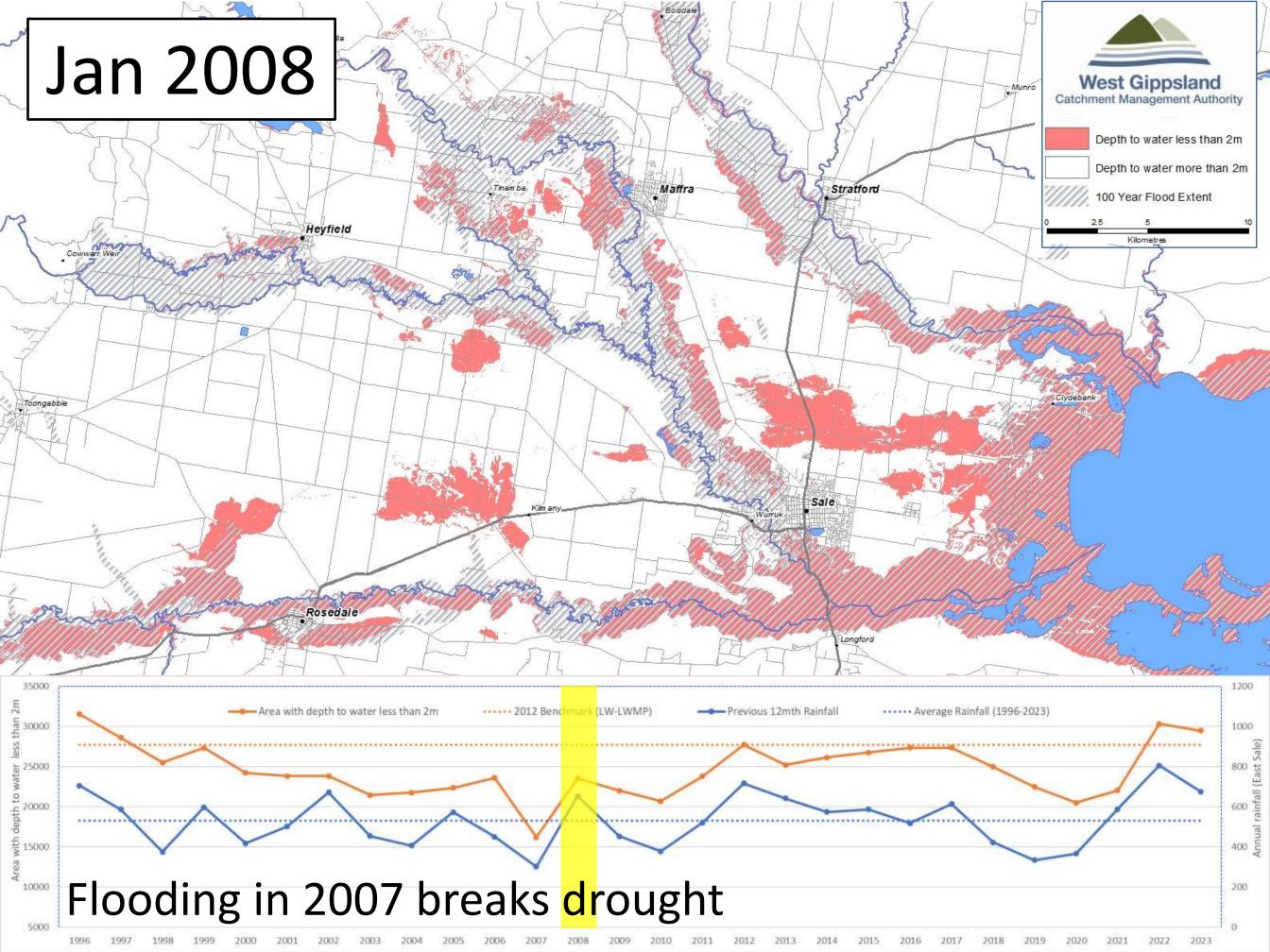


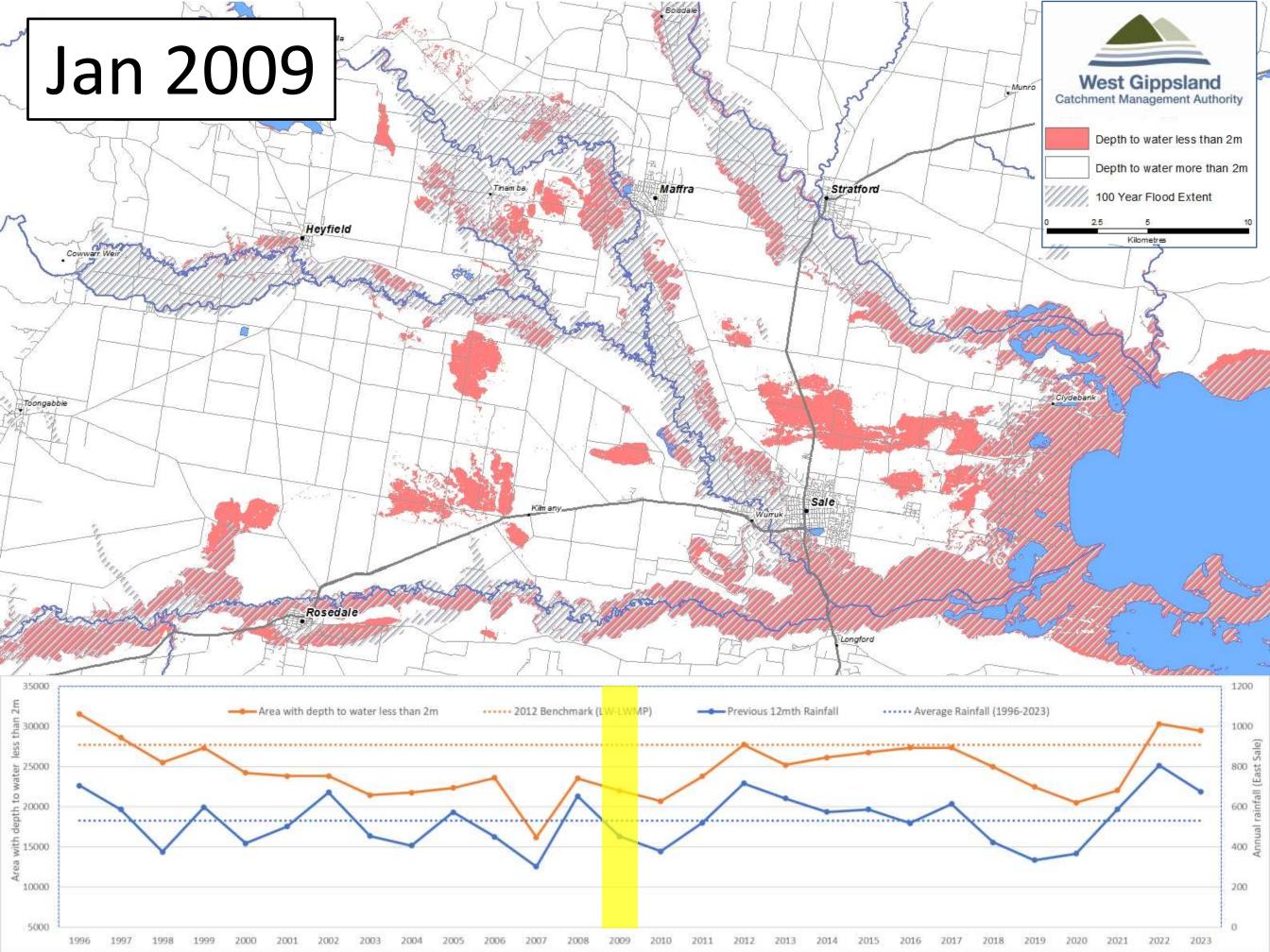


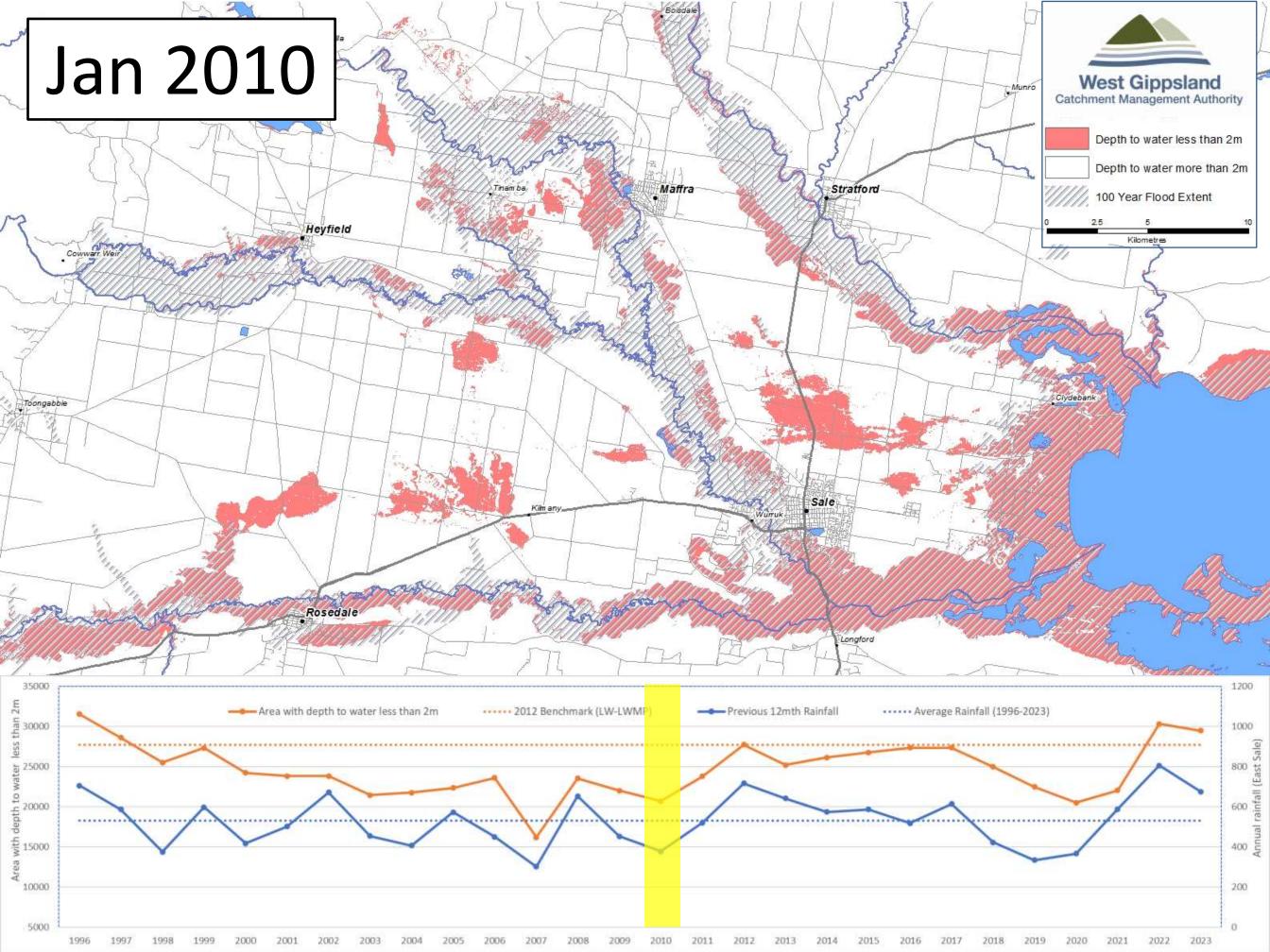


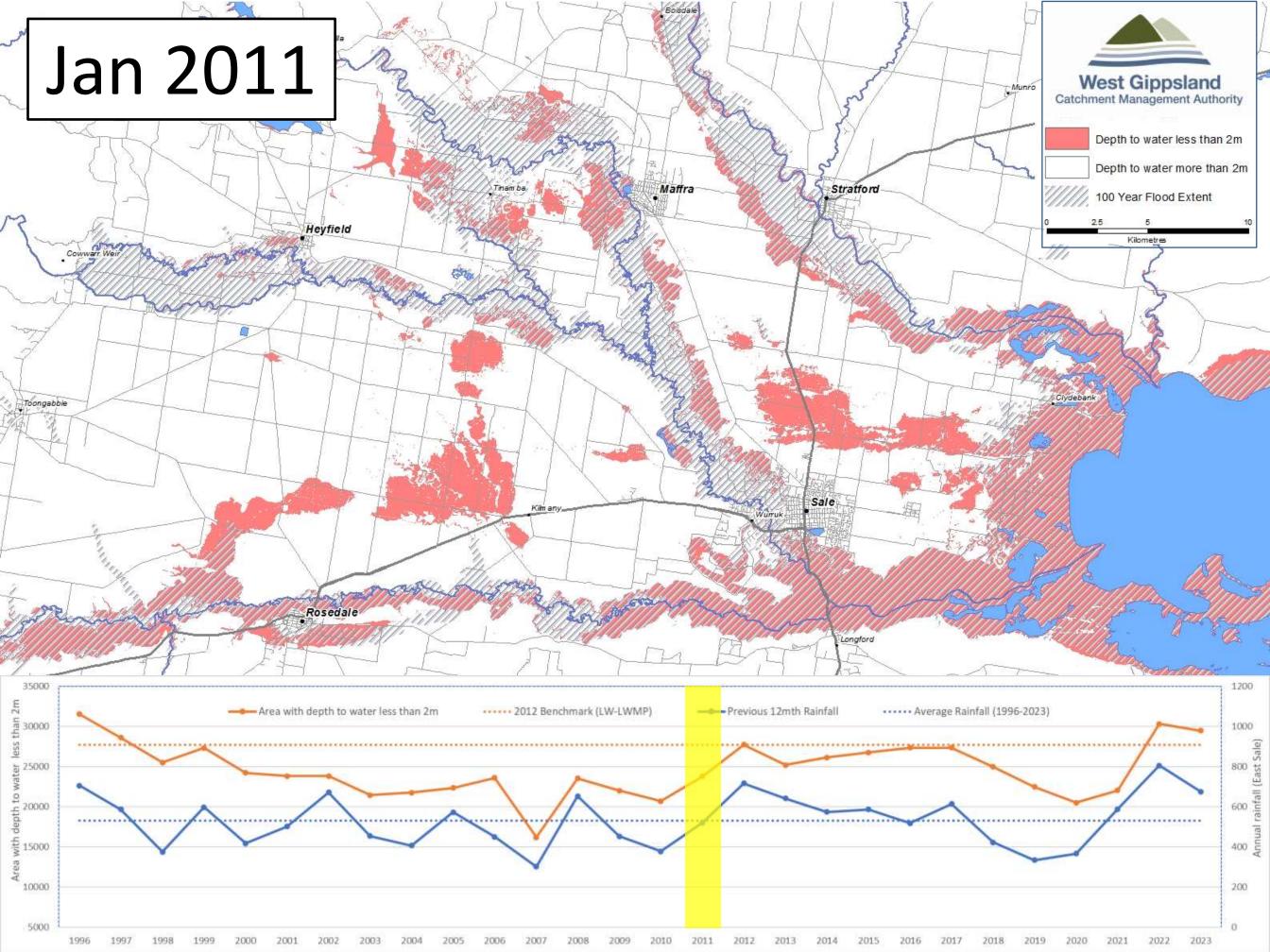


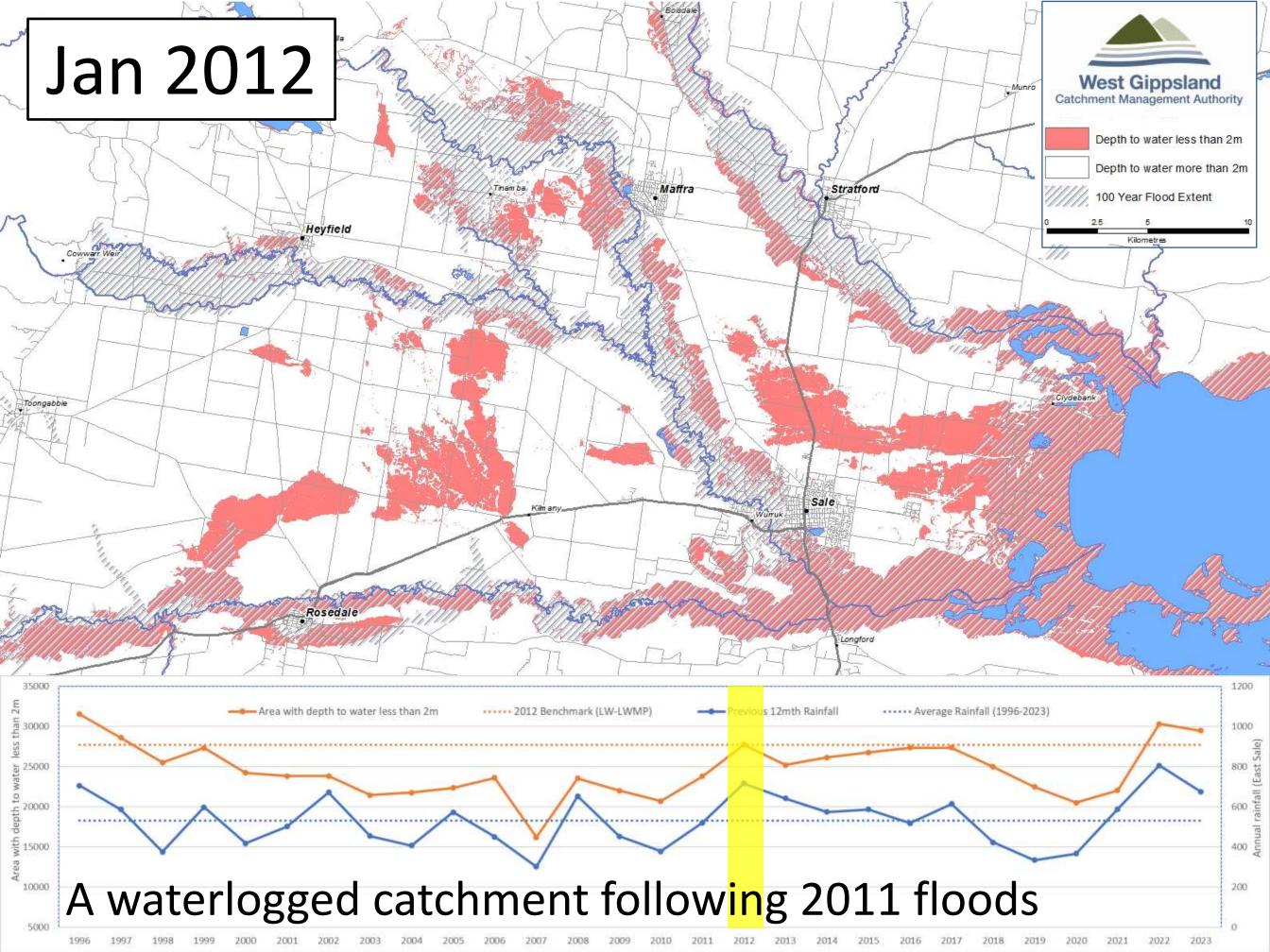


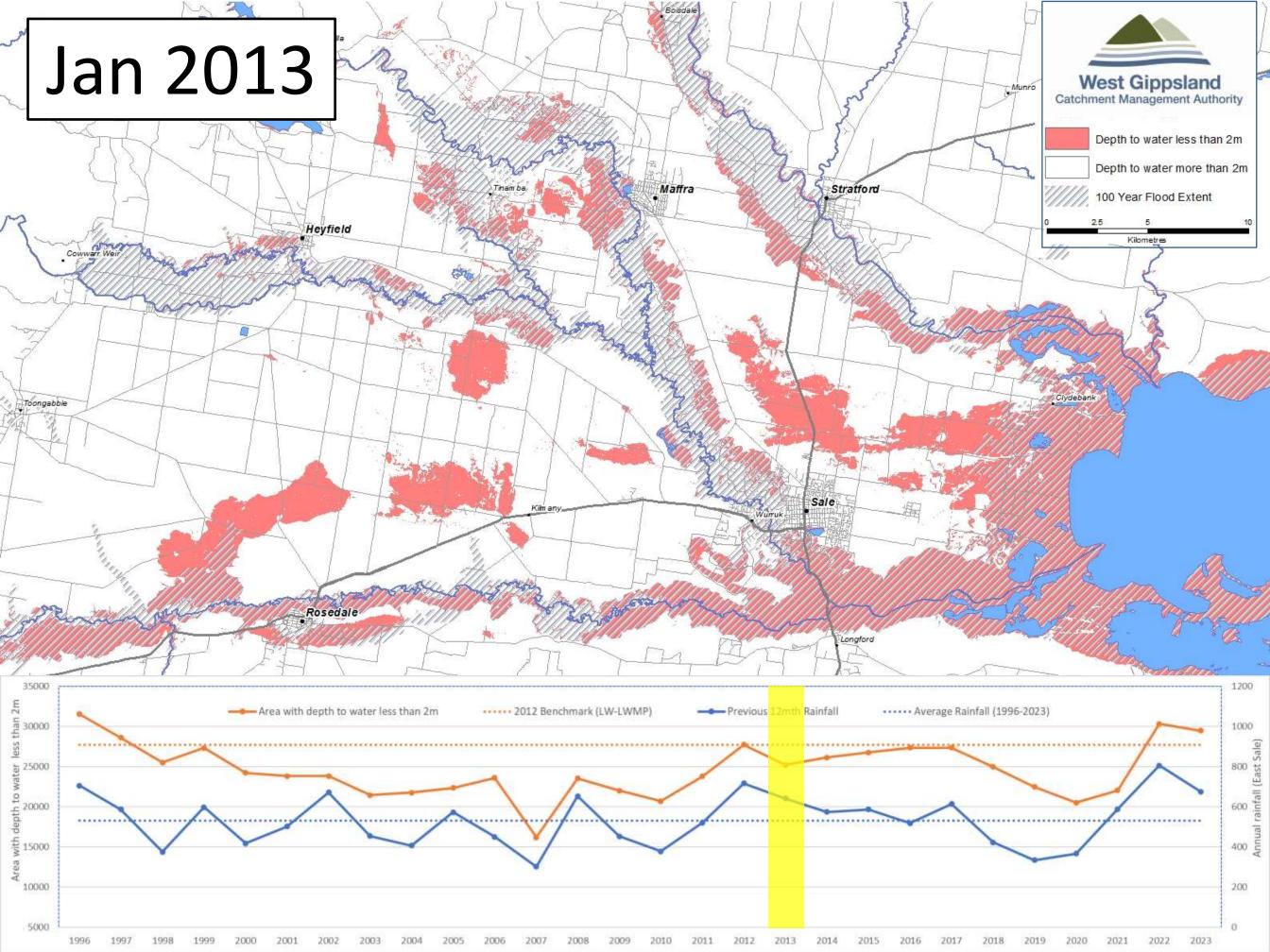


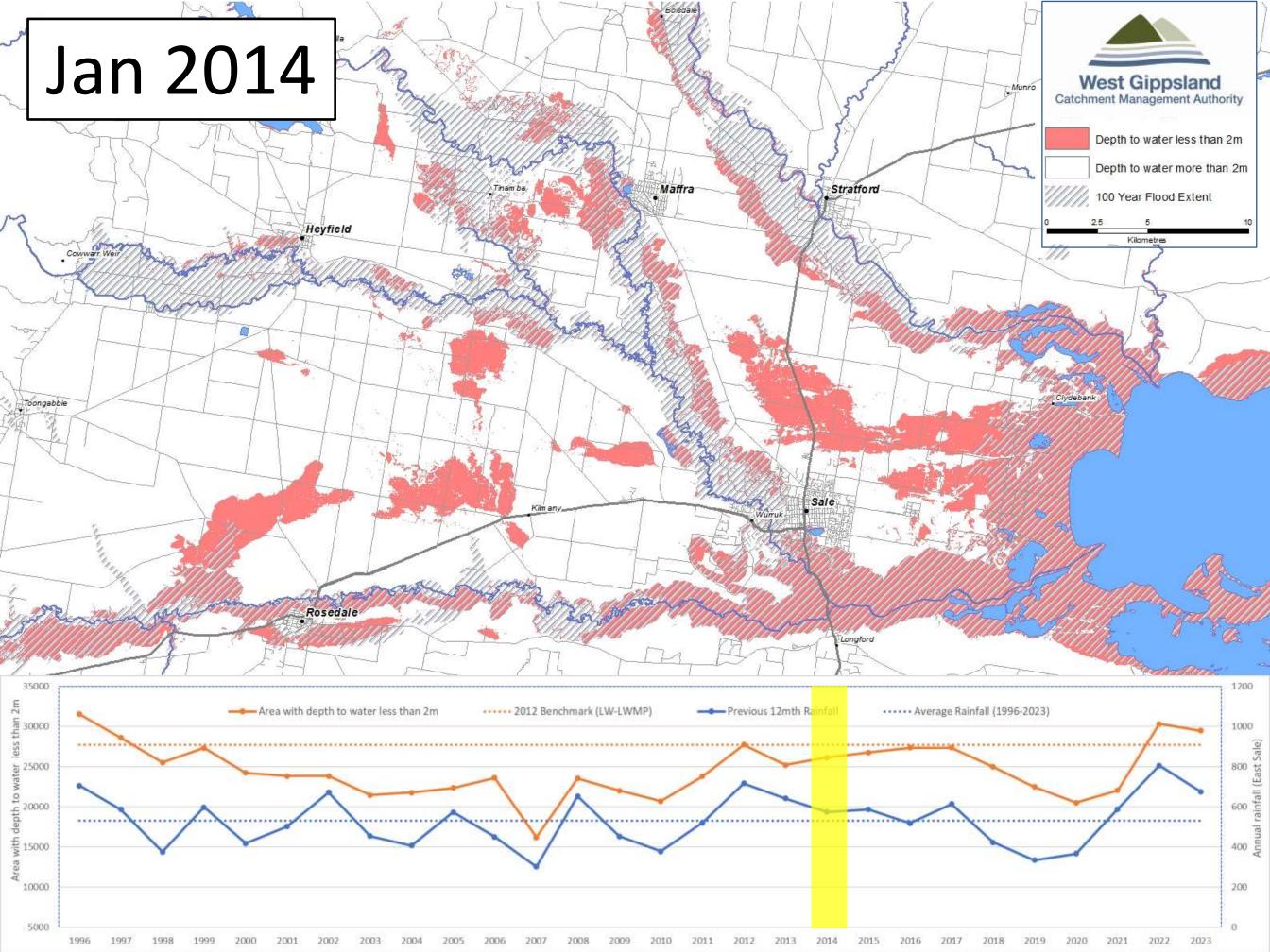


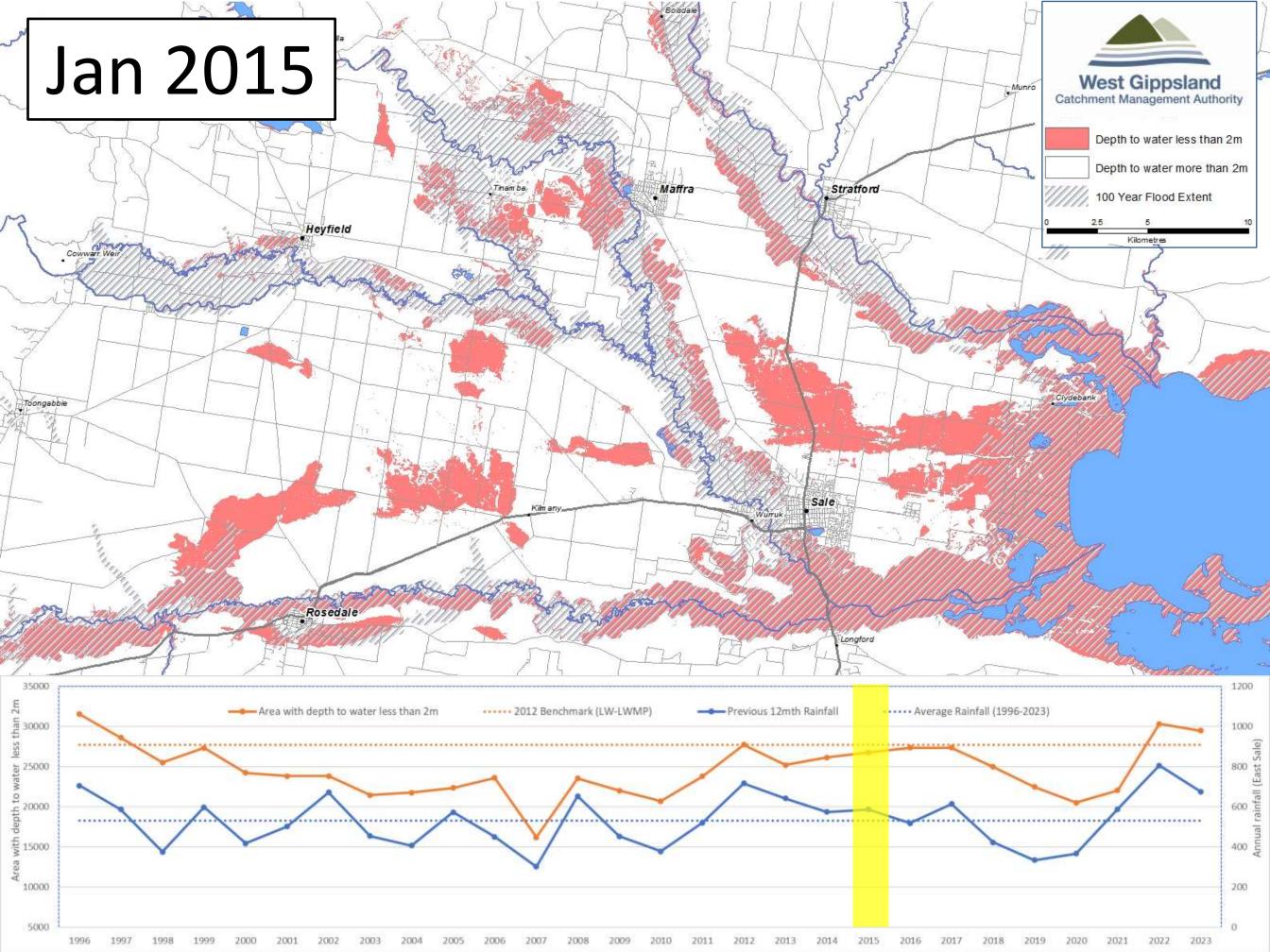


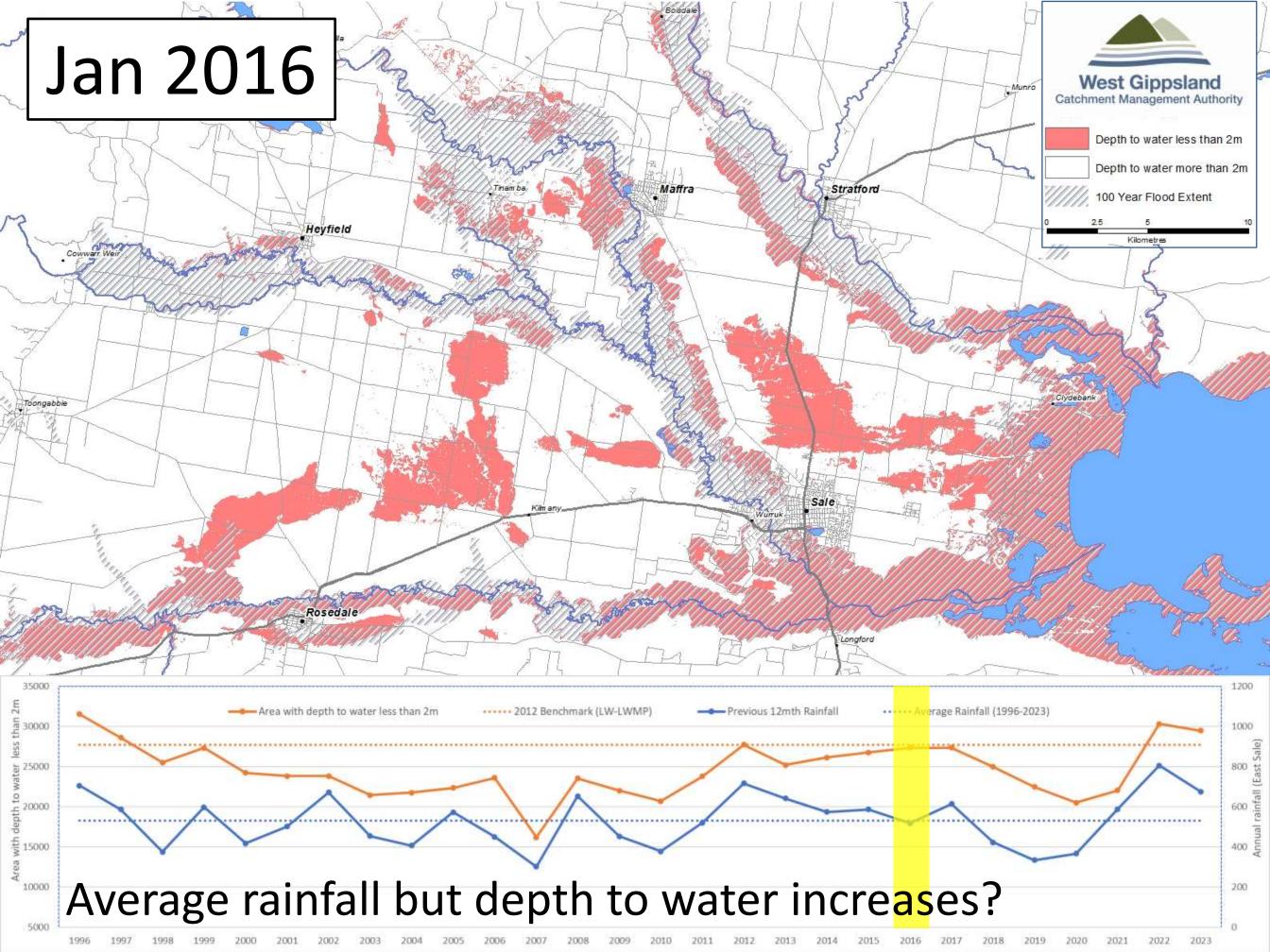


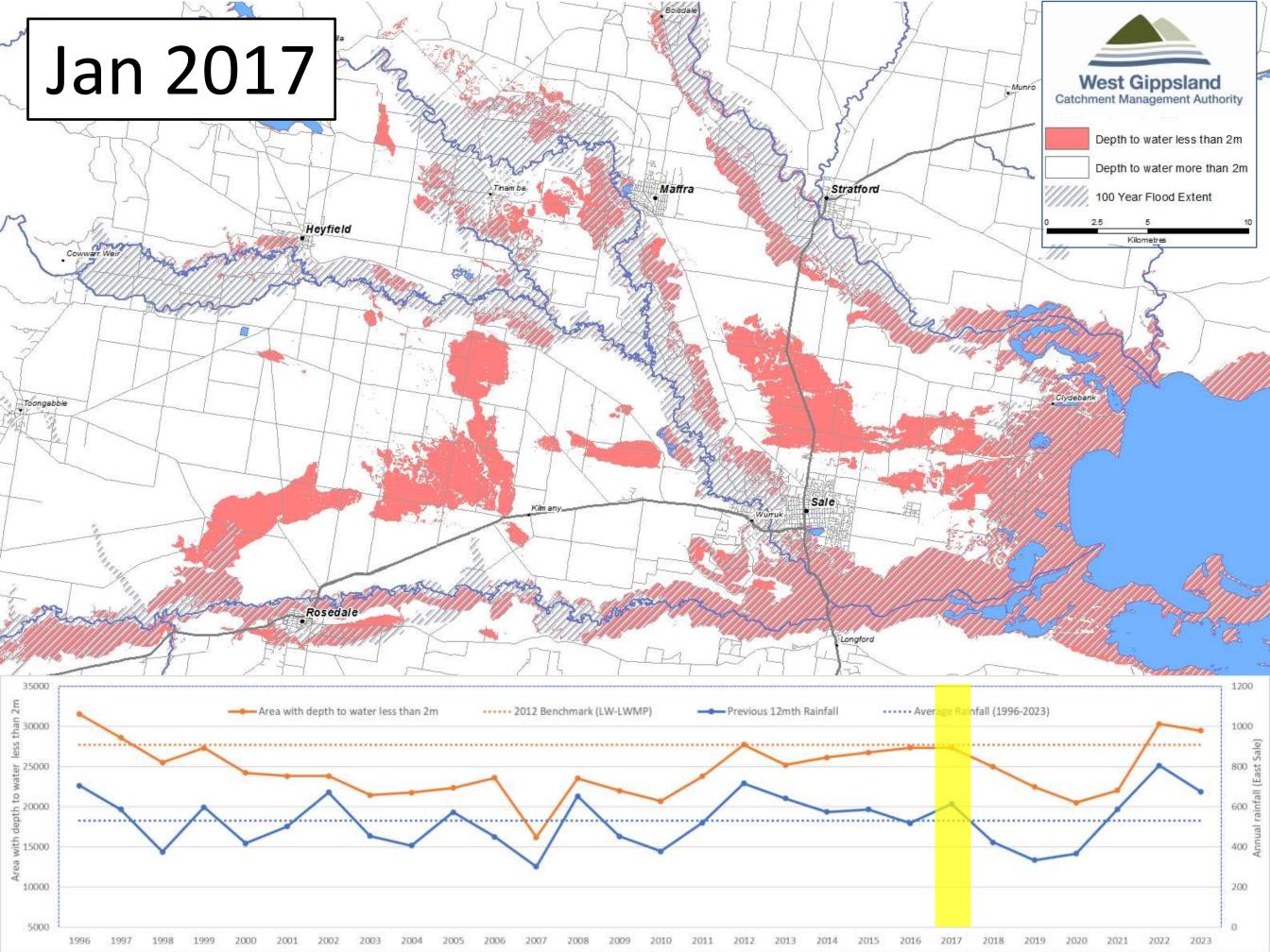


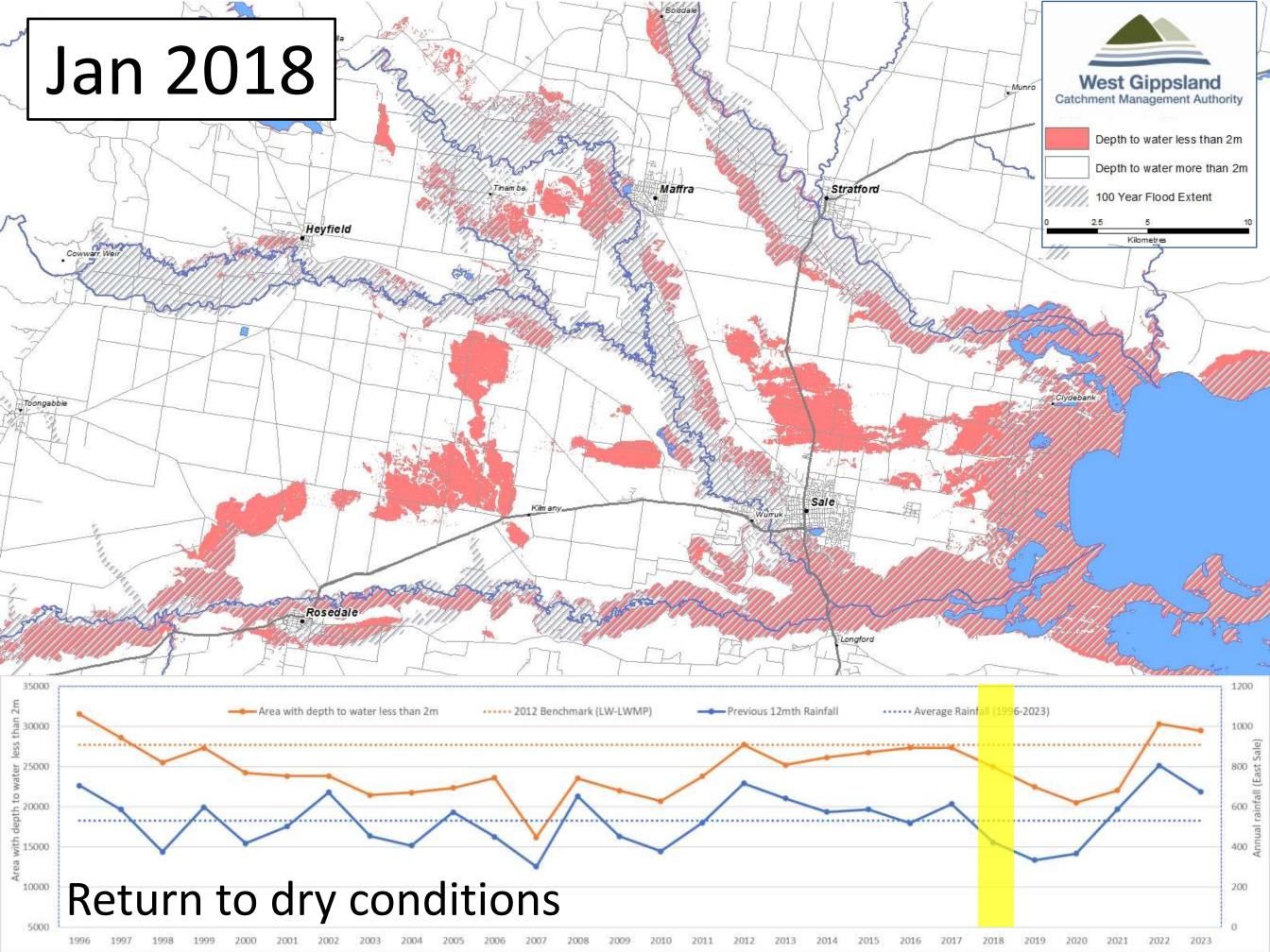


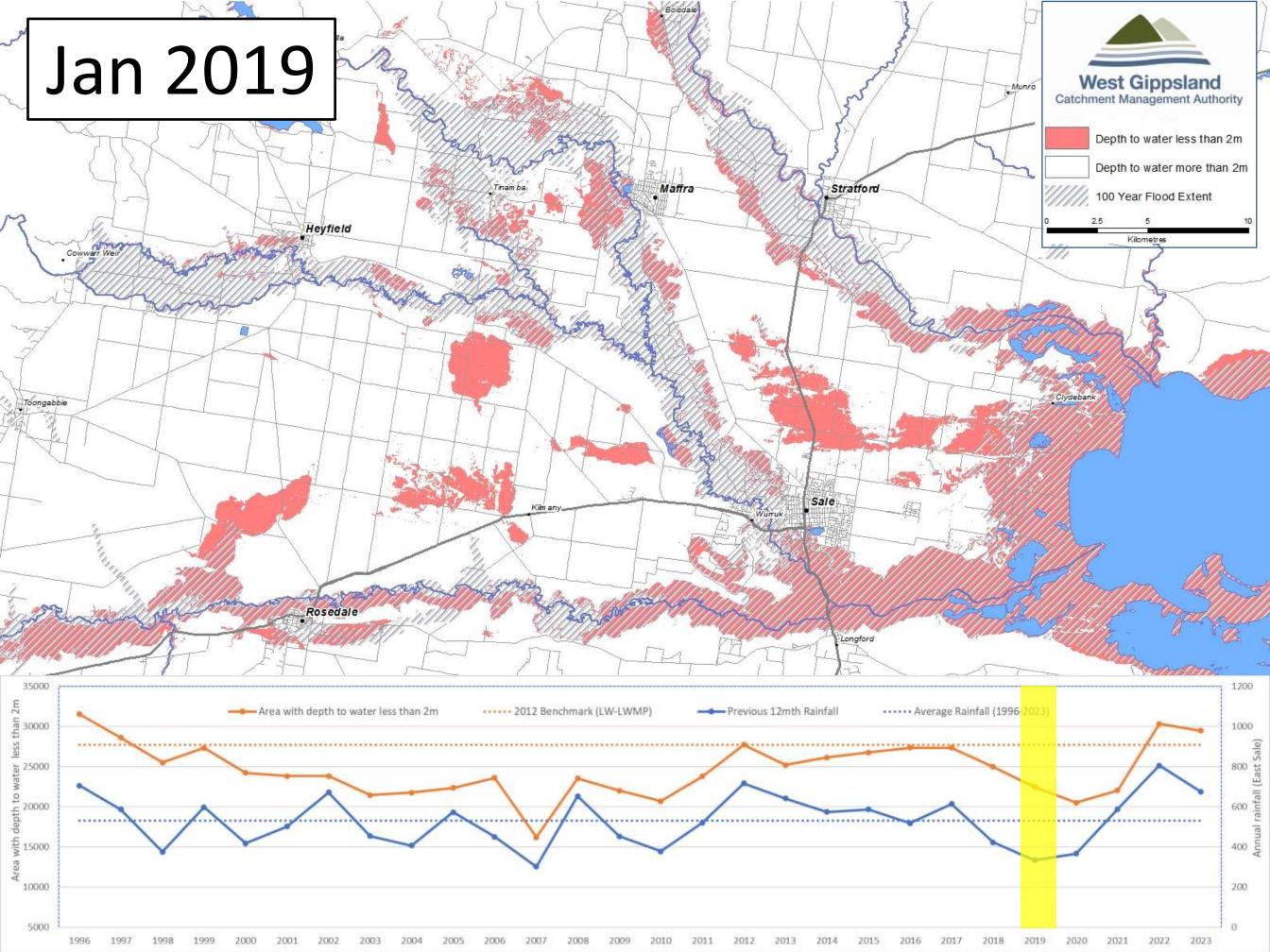


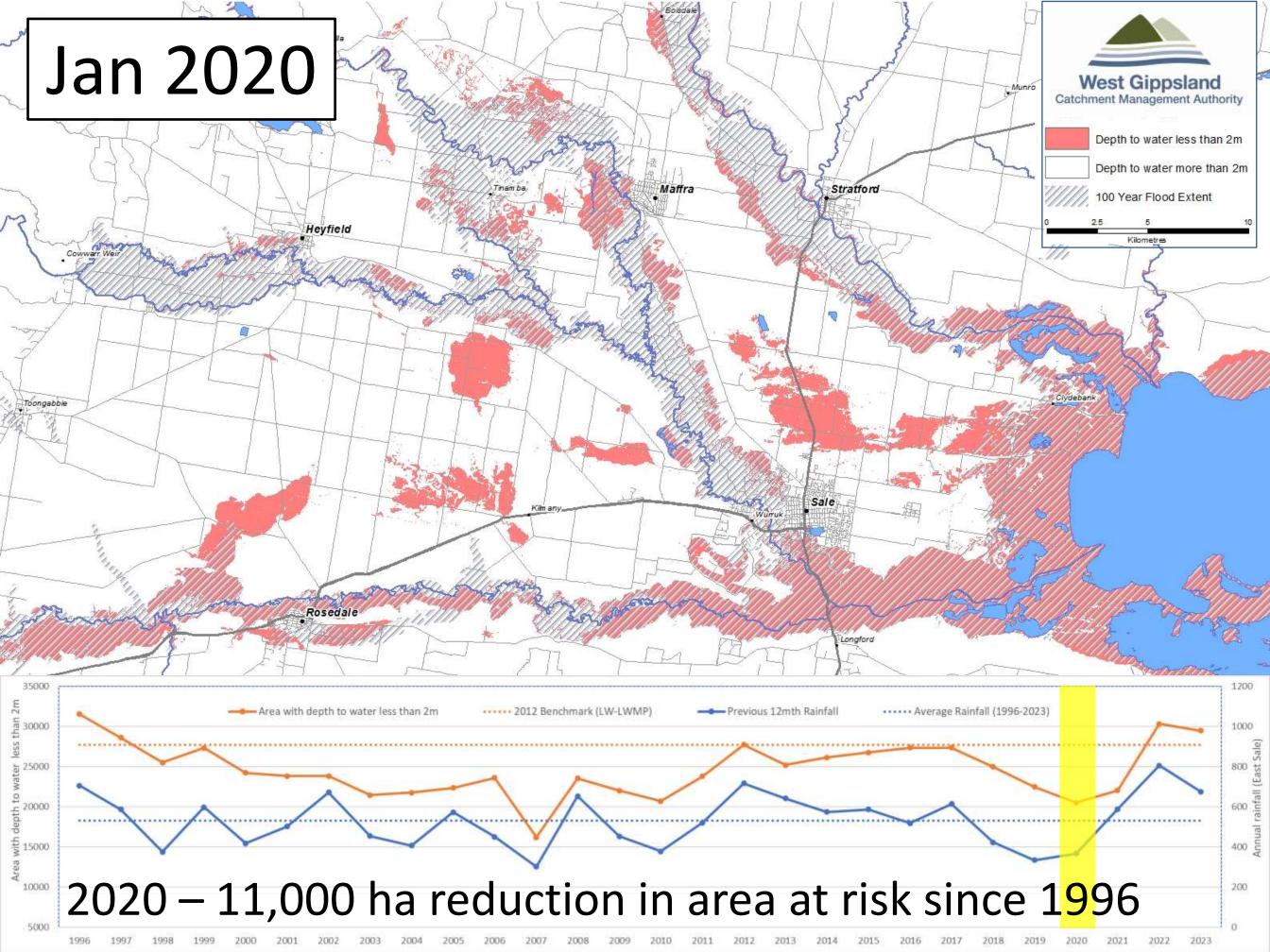


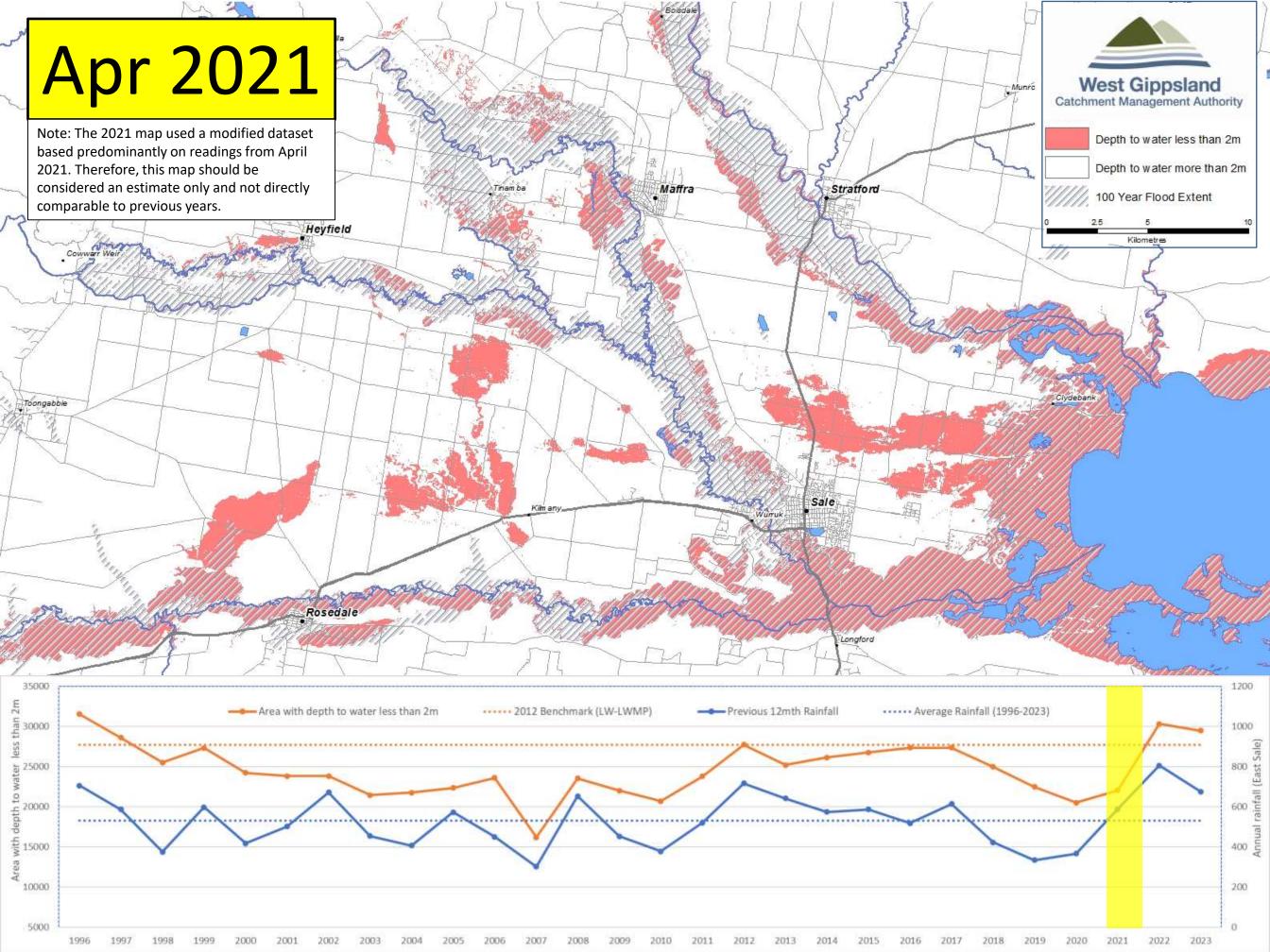


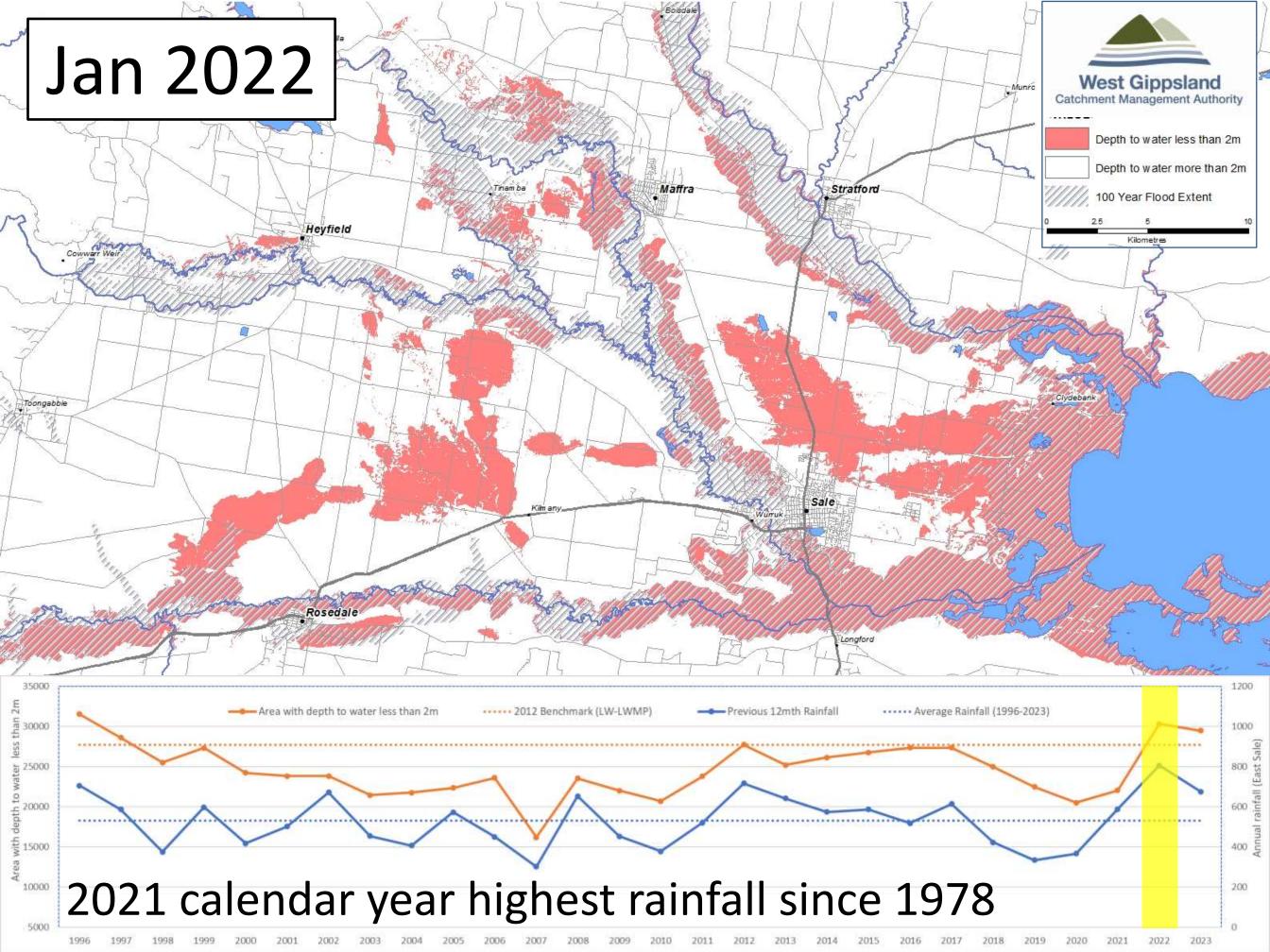


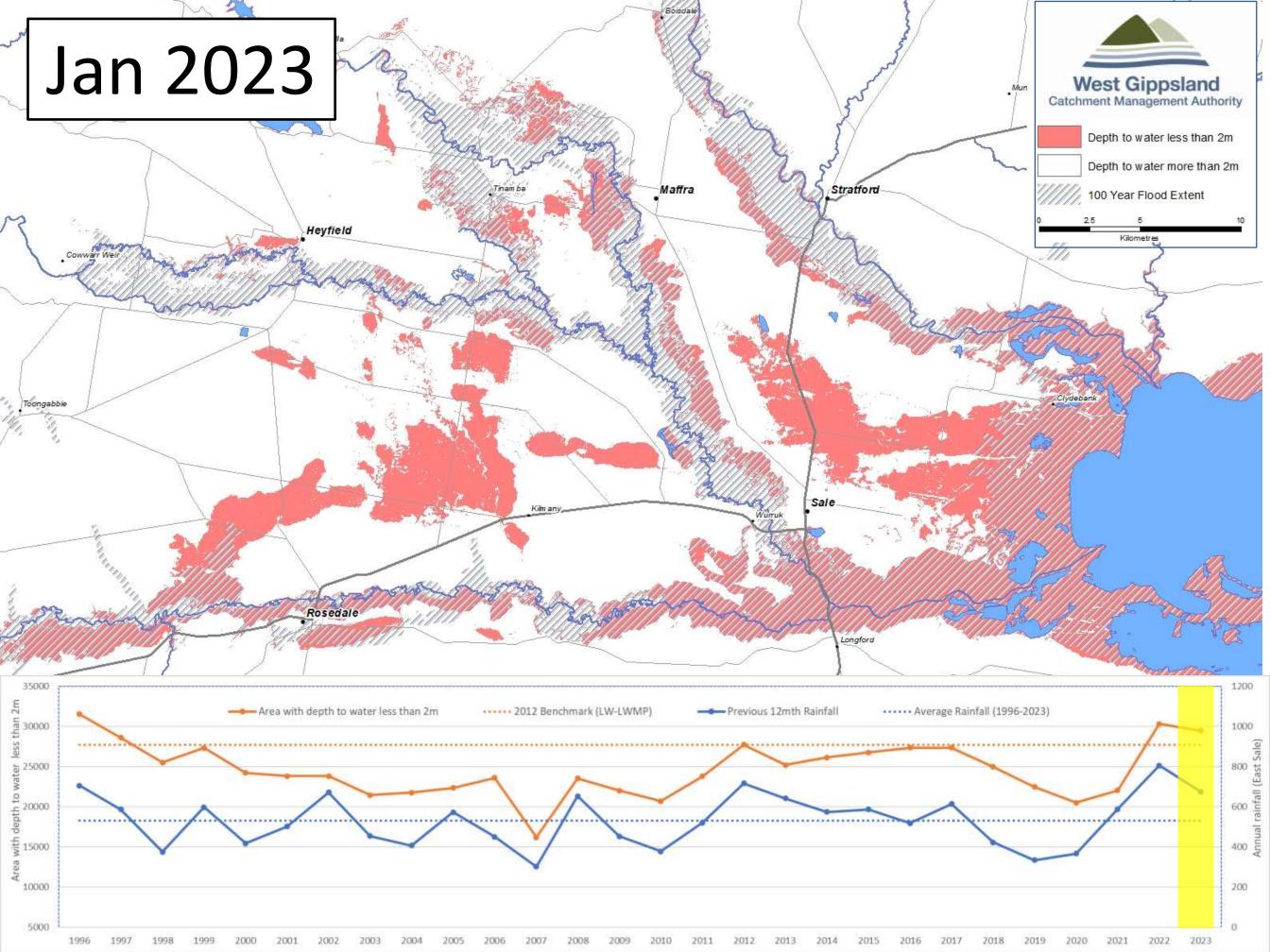












For more information

Historical Context

Drain and Reclaim Youtube Video - A short video from the late 1950's/early 1960s depicting the development of surface and sub-surface drainage in the Nambrok-Denison area of the Macalister Irrigation District to combat water logging and salinisation of the land. See also: http://www.srw.com.au/environment/mid-salinity/

Current Management

Lake Wellington Land and Water Management Plan

