

## Glenelg Hopkins CMA region

Key bore data has been selected across the Glenelg Hopkins Catchment Management Area as representative of groundwater levels, behaviour and trends.

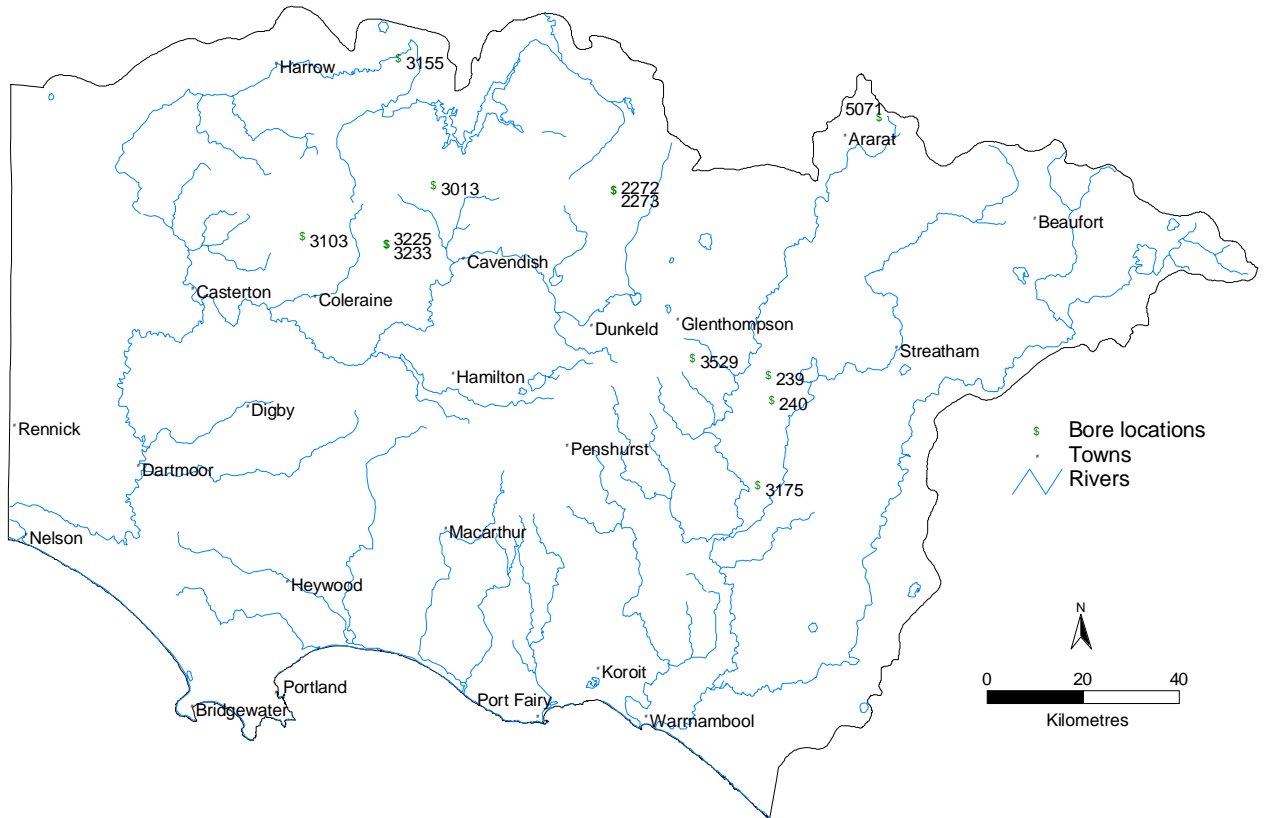


Figure 2 Map of key bore locations within the Glenelg Hopkins CMA region.

### Groundwater behaviour

Overall recorded groundwater levels have fallen to the lowest level since monitoring commenced in the 1980s. Bores situated at some discharge sites (bore 2272 and 2273) still recorded groundwater water levels at artesian pressures. Bores (eg. 3103) on lower slopes show groundwater levels rising to within 1 to 2 metres below surface during wet seasons and then receding to lower levels during dry seasons and drought years. Bores in the upper landscape indicate groundwater levels are declining with falls of up to 5 metres over period of 1996 to 2006 (eg. bores 3225 and 3233).

## Bore data

Table 1 Bore details

Bore ID	Total Depth	Screen Depth From	Screen Depth To	Landscape Position
3155	6.89	4.5	6.5	Lower Slope
3103	17.3	nr	nr	Mid-Slope
3225	17.9	nr	nr	Crest
3233	17.72	nr	nr	Crest
3013	19.6	nr	nr	Mid-slope Crest
2272	11	nr	nr	Discharge Site
2273	4.57	nr	nr	Discharge Site
3529	18	nr	nr	Crest
239	45	39	45	
240	54	48	54	Mid-Slope
3175	10.78	8	11	
5071	17.6	nr	nr	Lower to Mid-Slope

\*nr not recorded

## Bore hydrographs

The hydrographs that are provided below are plots of the unedited depth to groundwater as measured in the key monitoring bores and plotted as depth below natural surface (ground level). A brief interpretation is provided of each hydrograph in an attempt explain the groundwater behaviour at the bore site.

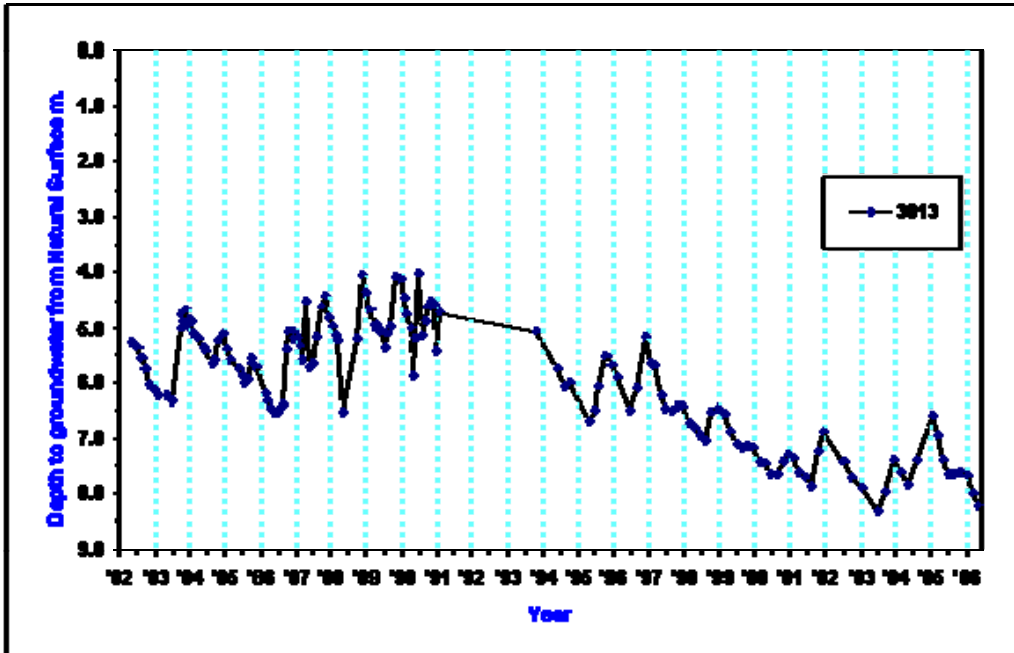


Figure 3 Bore 3529 located at Glenthompson on the crest of ridge.

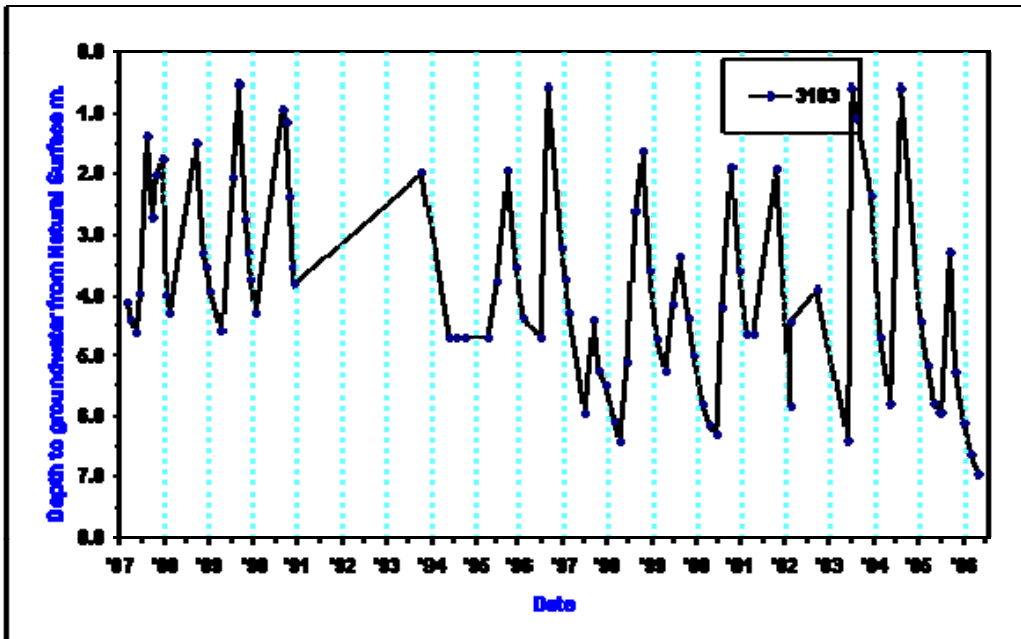


Figure 4 Bore 5071 lower to mid slope.

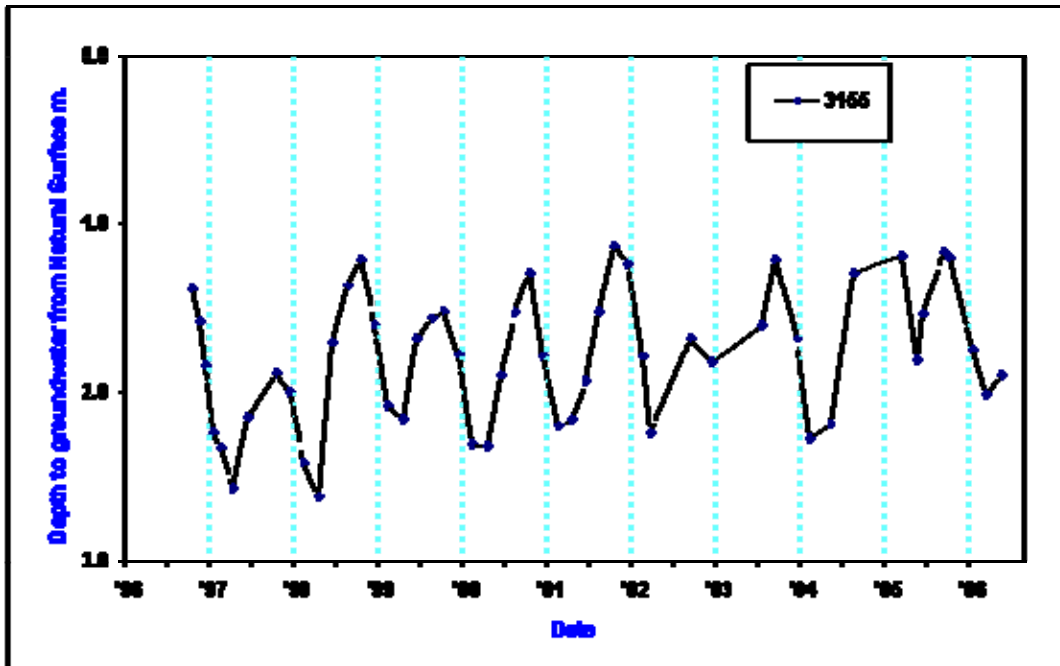




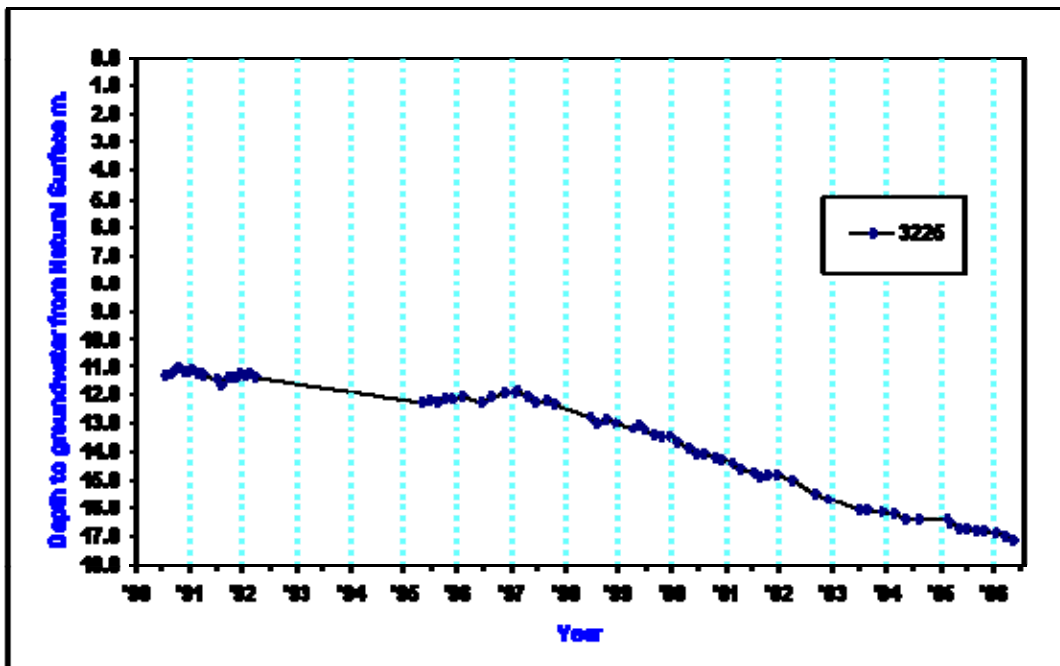
Bore 3013, overall declining trend with strong seasonal fluctuation, rise in levels during above average rainfall years.



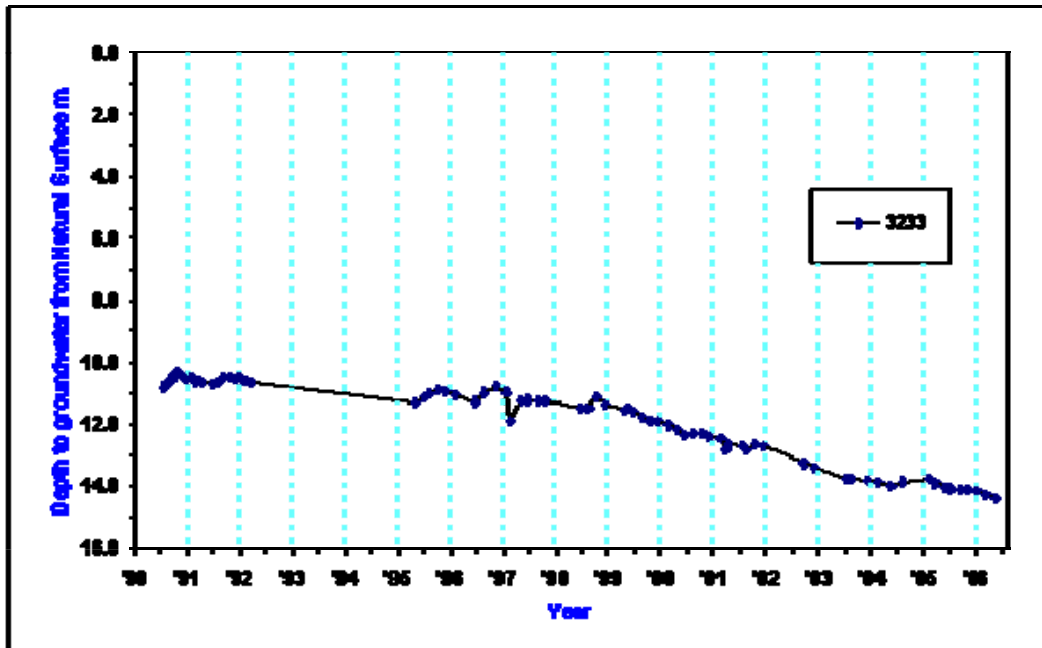
Bore 3103, overall stable trend with strong seasonal behaviour



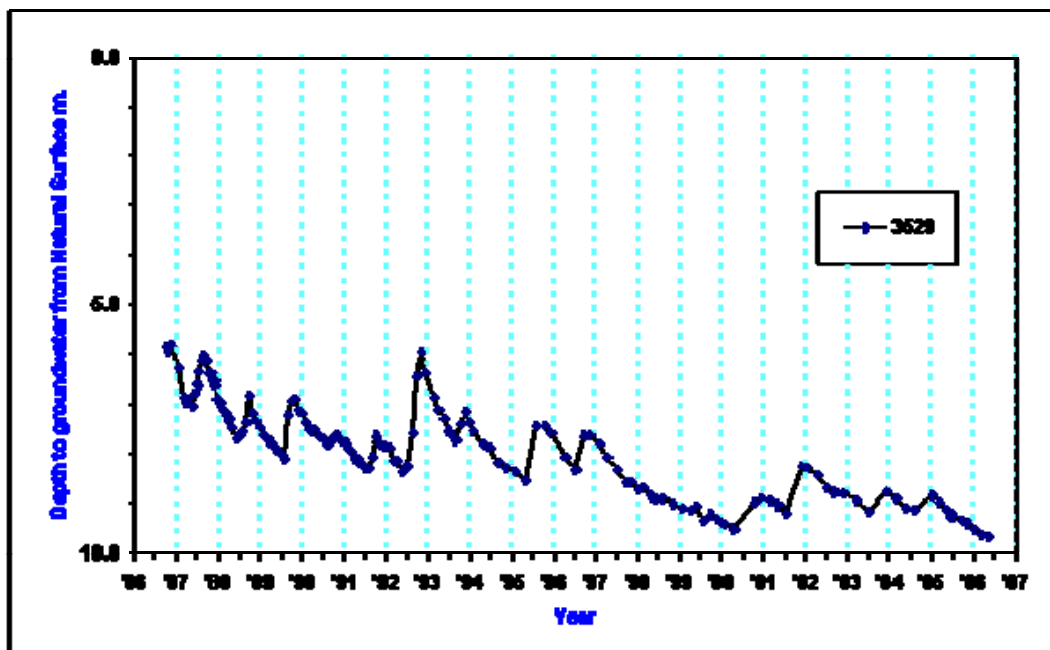
Bore 3155 overall upward trend, strong seasonal behaviour within 3 metres of ground surface



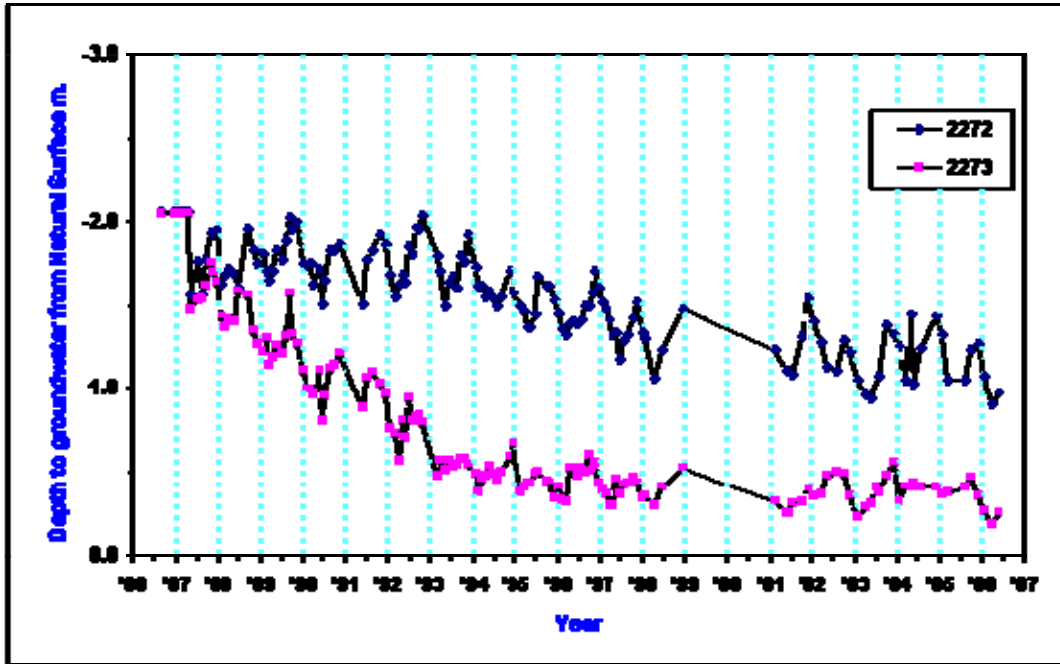
Bore 3225, overall steady downward linear trend since 1997, subdued behaviour



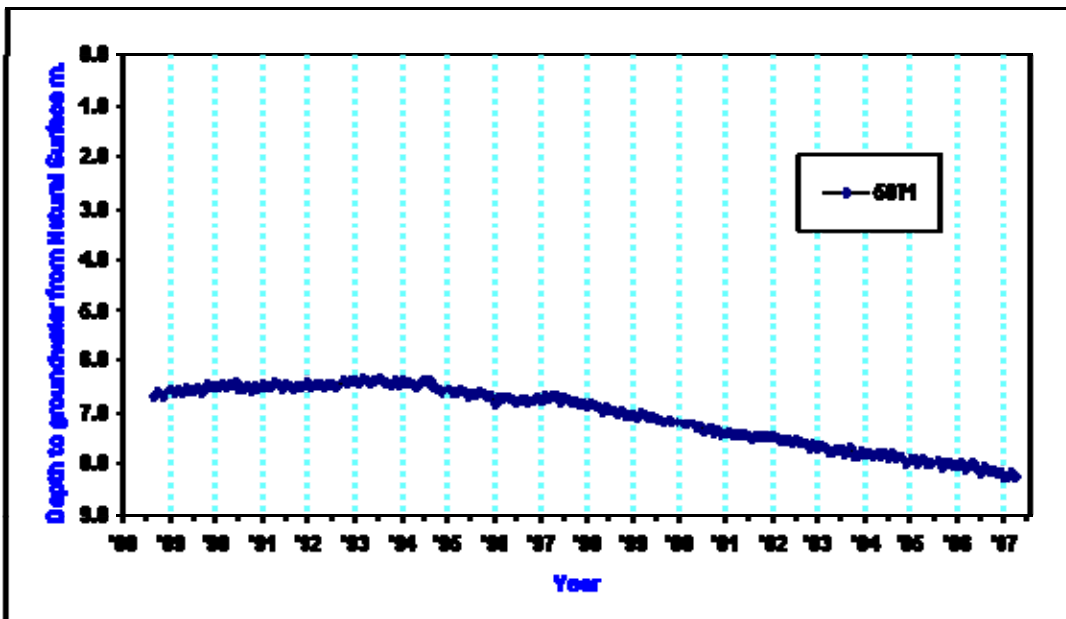
Bore 3233 shows an overall steady downward linear trend since 1990, subdued behaviour



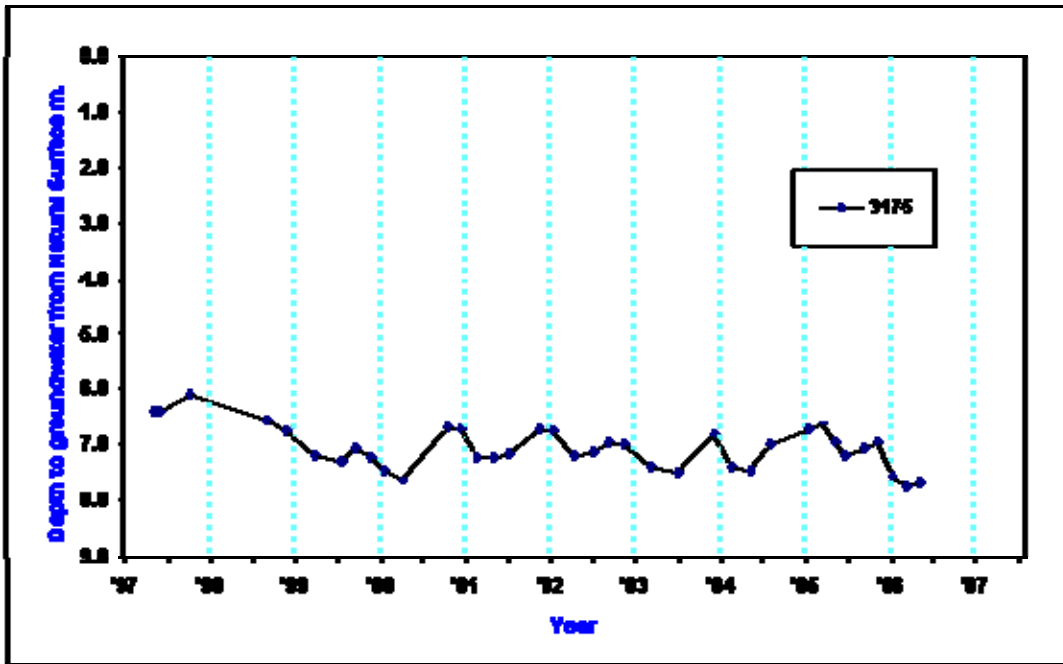
Bore 3529 overall steady downward linear trend since 1986, some seasonal behaviour with reduce fluctuation during dry years



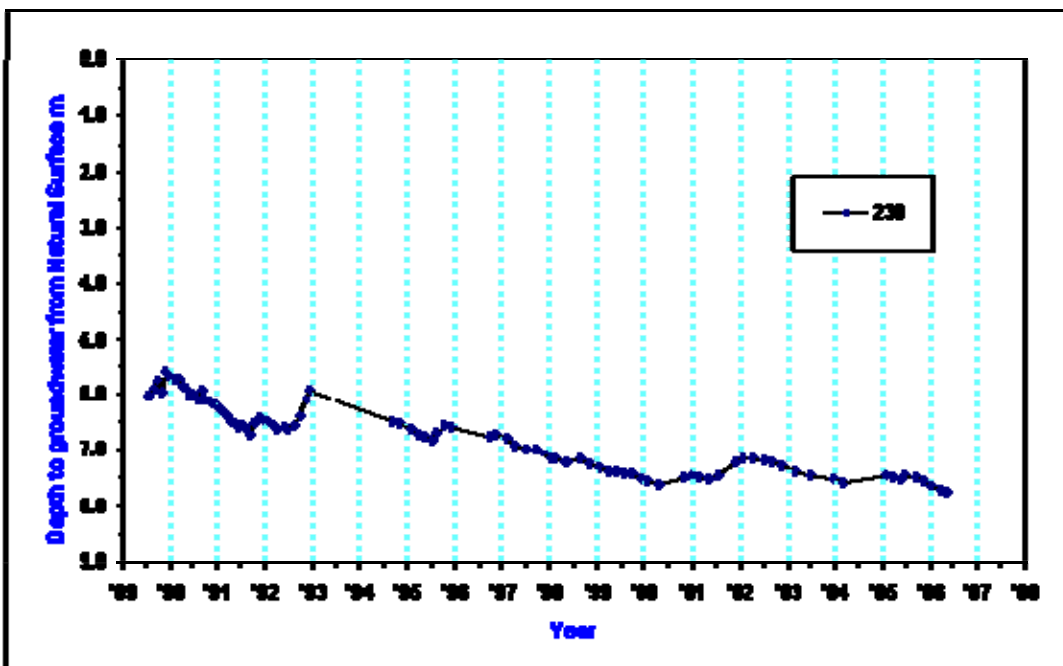
Bores 2272 and 2273, a nested site with the deeper bore (2273) showing a stronger downward trend, strong seasonal behaviour.



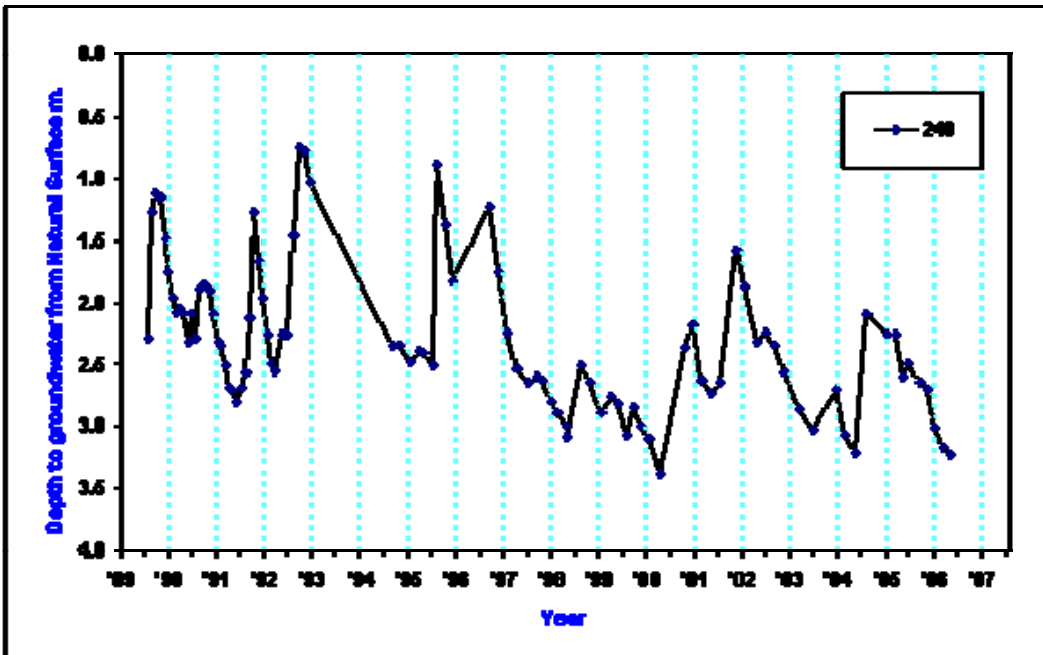
Bore 5071, overall downward trend after a plateau 1994, subdued behaviour



Bore 3175, stable trend, some delayed seasonal fluctuation.



Bore 239 overall steady downward linear trend since 1997, some seasonal behaviour with reduce fluctuation during dry years



Bore 240, overall slight downward trend, wet year response behaviour