

## Wimmera CMA region

Key bore data has been selected across the Wimmera Catchment Management Authority area as representative of groundwater levels, behaviour and trends.

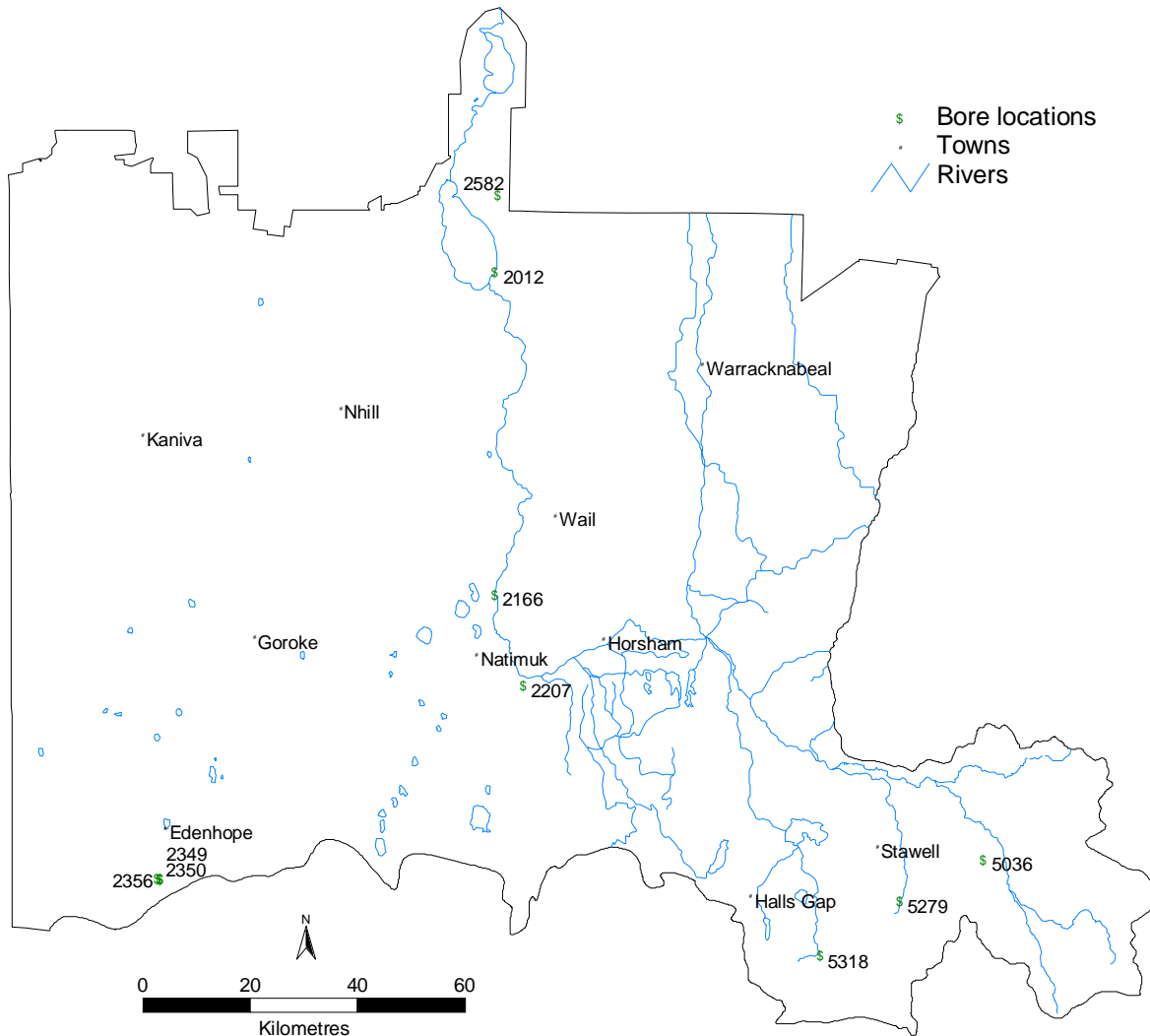


Figure 13 Map of key bore locations within the Wimmera CMA region

## Groundwater behaviour

Groundwater levels recorded in the upper landscape (bore 163) have fallen to the lowest level since monitoring commenced in the 1988. Bores (5036 and 5318) are situated in the lower landscape are showing a downward or stable groundwater trend, particularly from the period 1994 to 2006. Bores (2012 and 2582) on the regional flood plain, which prior to 1994 had a marked upward trend, have turned to downward trends.

**Bore data**

Table 4 Bore details

Bore Id	Total Depth	Screen Depth From	Screen Depth To	Landscape Position
163	81	nr	nr	Upper slope
2356	7.9	nr	nr	nr
2349	20	nr	nr	nr
2350	9	nr	nr	nr
2207	15.8	13.8	nr	nr
2166	20.7	nr	nr	Alluvial Plains
5318	nr	nr	nr	Alluvial Plains
5279	14.42	nr	nr	Alluvial plains
5036	6.7	nr	nr	Plains
2012	18	16	nr	Flood plain
2582	8.13	nr	nr	Sandy rise

\*nr not recorded



Figure 14 Bore 2012, Lake Hindmarsh.



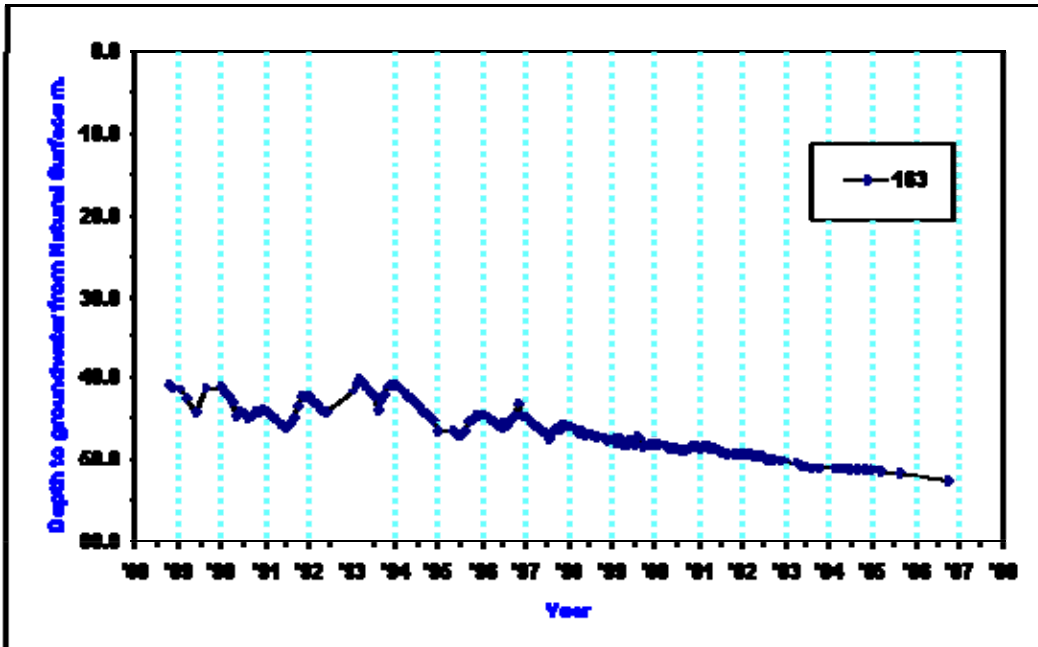
Figure 15 Bore 5036, Great Western.



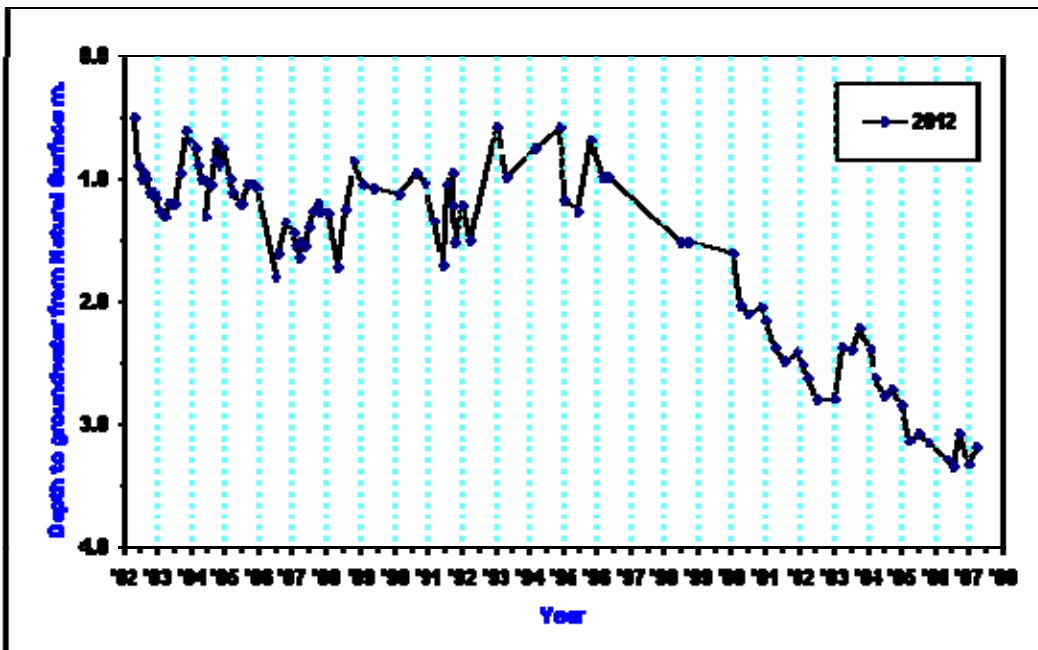
Figure 16 Bore 5279, Bulgana-Joel South.

Bore hydrographs

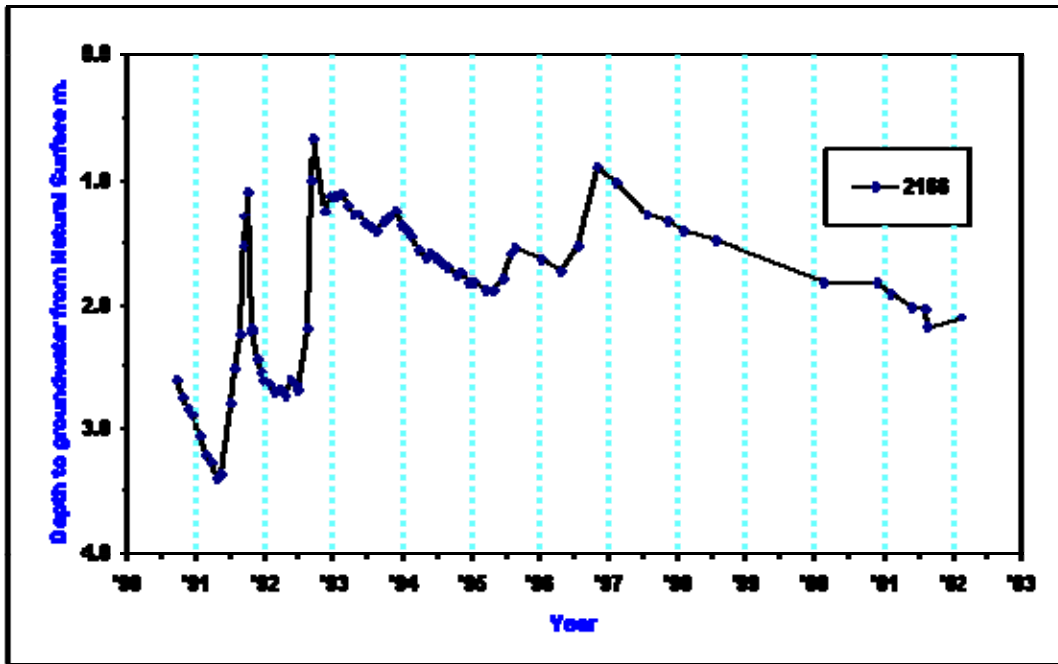
The hydrographs that are provided below are plots of the unedited depth to groundwater as measured in the key monitoring bores and plotted as depth below natural surface (ground level). A brief interpretation is provided of each hydrograph in an attempt explain the groundwater behaviour at the bore site.



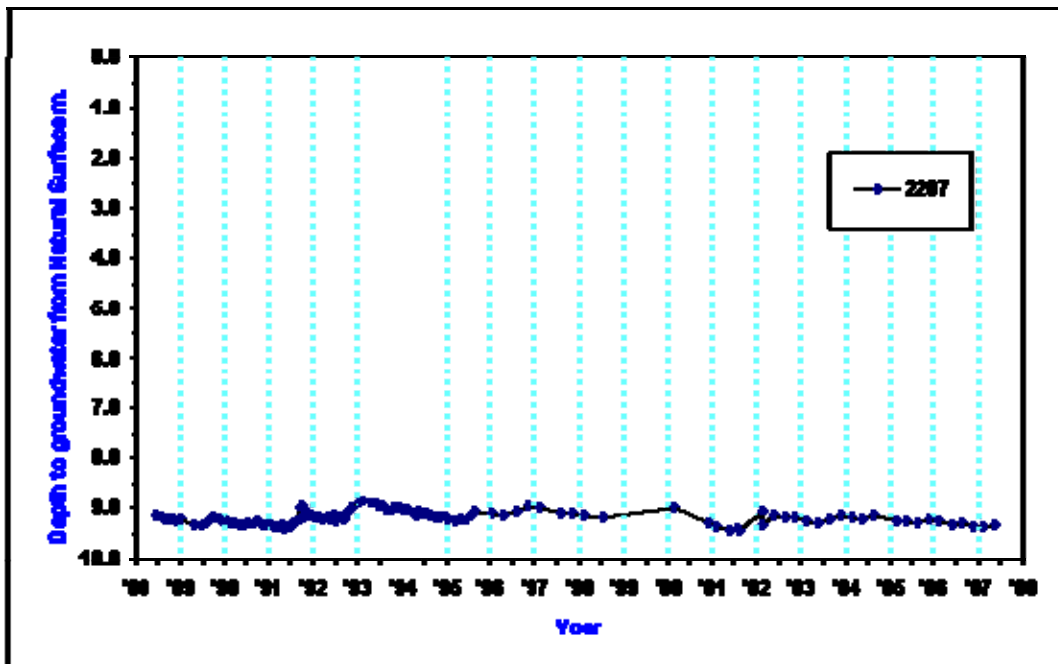
Bore 163, overall downward trend, some seasonal behaviour prior to 1997



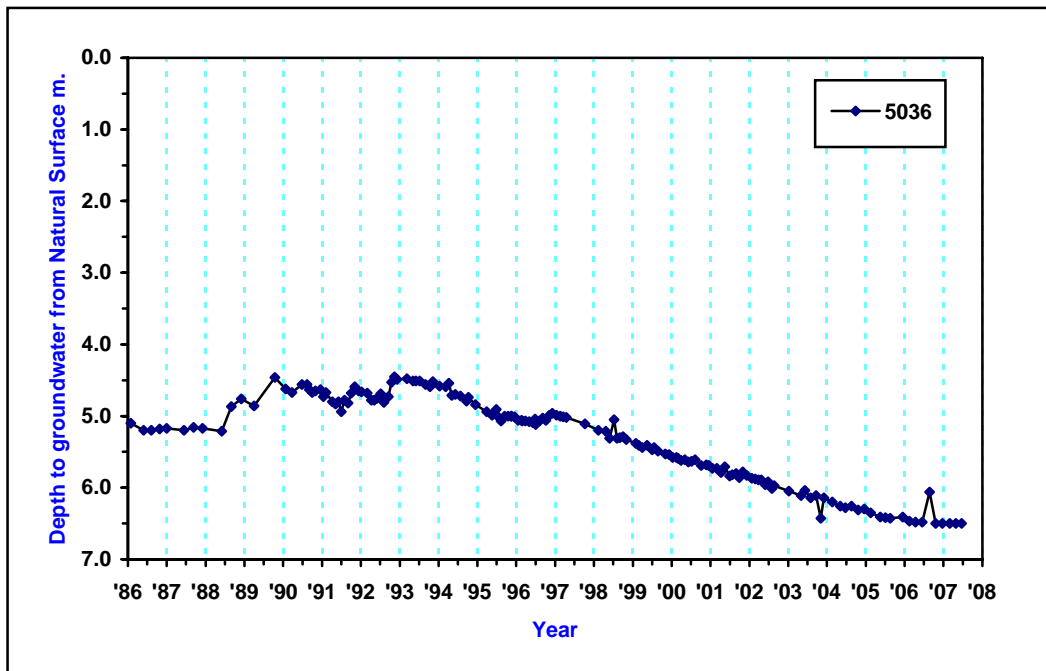
Bore 2012 overall downward trend, strong seasonal behaviour. This bore is influenced by water levels in Lake Hindmarsh.



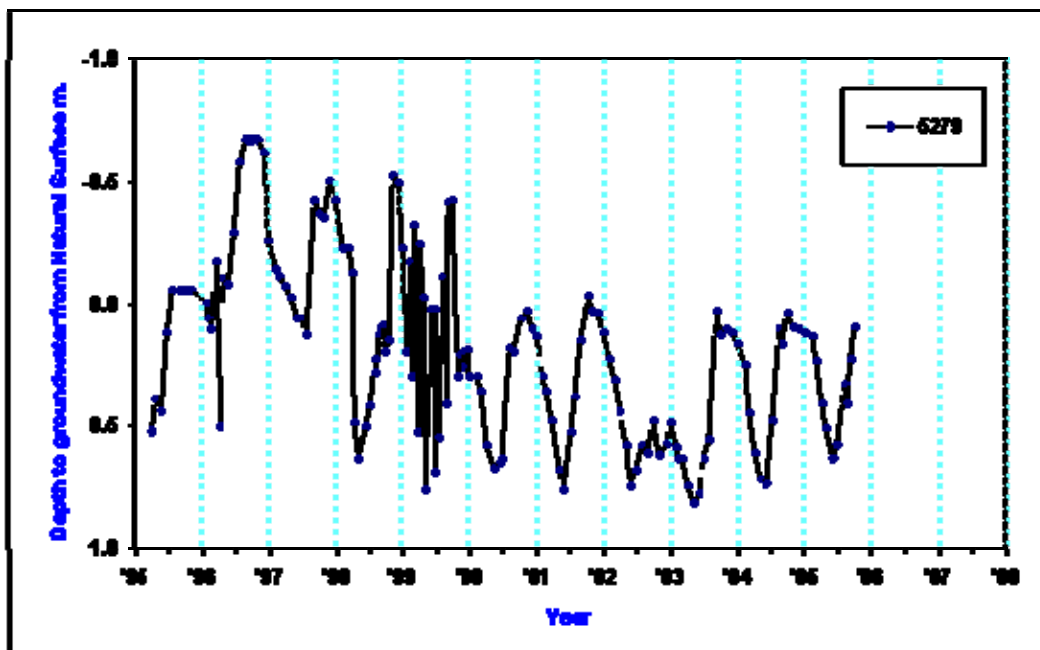
Bore 2166 overall rising trend, strong seasonal behaviour during wet periods



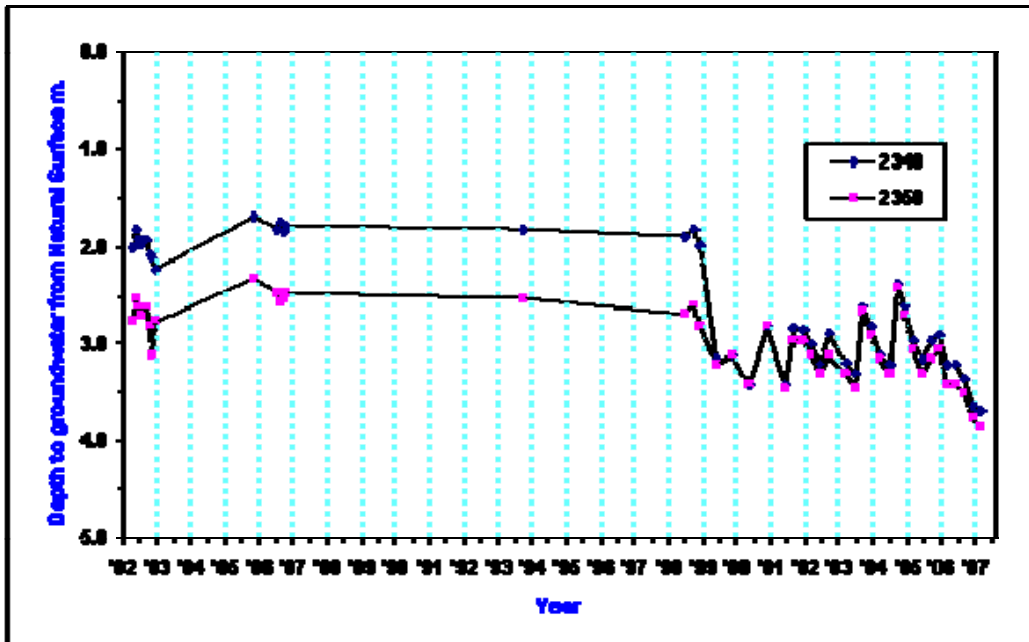
Bore 2207 overall stable trend, subdued behaviour



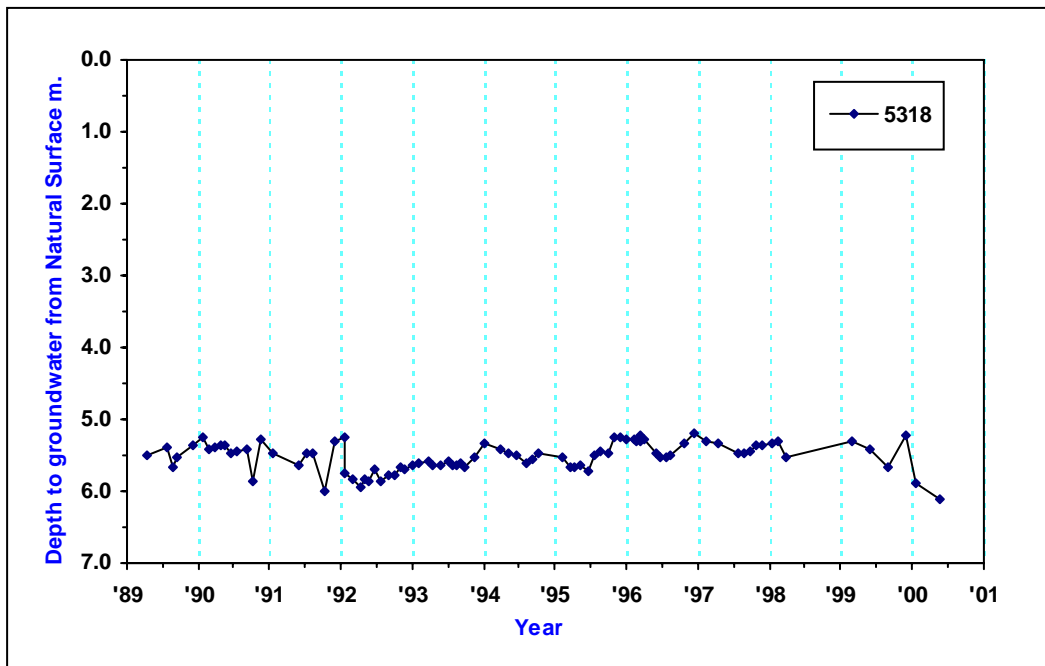
Bore 5036 overall downward trend, subdued behaviour



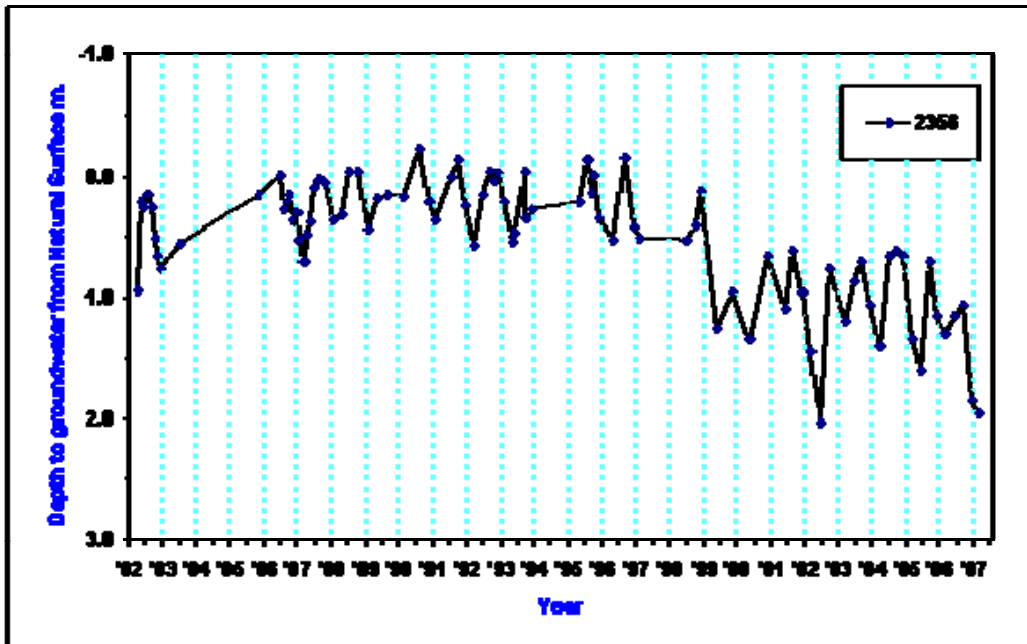
Bore 5279 overall downward trend, strong seasonal behaviour



Bores 2349 and 2350 nested site, overall downward trend, strong seasonal behaviour



Bore 5318, stable trend, some seasonal behaviour.



Bore 2356 overall downward trend, strong seasonal behaviour