|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TABLE 1:** These 21 long-record rural sites (out of 112 ACORN sites) have a wide variety of credibility issues in their homogenised data. They are compared briefly with Melbourne R.O. which has a lesser spread and magnitude of issues but in common with other capitals, is controversially “corrected” for UHI effect! (It seems) | | **Melbourne RO R.O.** | Bridgetown | Mildura | Tibooburra | Cairns | Kerang | Albany | Richmond Qld. | Rutherglen | Cape Otway | Robe | Palmerville | Alice Springs | Yamba | Wilsons Prom’ | Katanning | Moruya Heads | Gabo Island | Bundaberg | Bathurst | Bourke | Boulia |
| **Figure number >>>>** | | | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** |
| Step-changes unexplained/in doubt in site history | | 3 | 1 | 3 | 3 | 5 | 5 | 3 | 💣 | 3 | 1 | **🖸** | 7 | 💣 | 1 | **🖸** | 2? | **🖸** | 1 | 2 | 3 | 3 | 3 |
| Step-changes unexplained/in doubt in site history | | 1 | 4 | 6 | 3 | 2 | **🖸** | 4 | 💣 | **🖸** | 4 | 4 | 1 | 2? | 2 | **🖸** | 5 | **🖸** | 2 | 2 | 6 | 2 | 5 |
| **This feature has great impact on other data** | **Years** of ACORN same as CDO | 18 | **68** | 41 | 34 | 24 | 15 | 49 | 30 | 41 | 41 | **104** | **9** | **7** | **57** | **57** | 30 | **52** | 34 | 24 | 42 | 13 | 35 |
| **Years** of ACORN same as CDO | 24 | 20 | 21 | 34 | **79** | **55** | 15 | 12 | **67** | 41 | 49 | **💣** | **7** | **57** | **57** | 25 | **52** | 34 | 24 | 42 | 20 | 15 |
| Step-changes resulting in net cooling trend | | ✓ |  |  | ✓ |  |  |  | ✓ |  |  |  |  |  |  |  |  |  |  |  | ✓ |  |  |
| Step-changes resulting in net cooling trend | | ✓ |  |  |  |  |  | ✓ |  | ? | ✓ | ✓ |  |  |  |  | ? |  |  |  |  |  | ✓ |
| Step-changes resulting in net warming trend | |  | ✓ | ✓ |  | ✓ | 🖸 | ✓ | ✓ | ✓ | ✓ | 🖸 | 🖸 | ✓ | 🖸 | 🖸 | ✓ | 🖸 | 🖸 | ✓ |  | ✓ | ✓ |
| Step-changes resulting in net warming trend | |  | ✓ | ✓ | ✓ | ✓ | 🖸 |  |  |  |  |  | 🖸 | ✓ | 🖸 | 🖸 | ? | 🖸 | 🖸 | ? | ✓ | ✓ |  |
| Large seasonal variations/extremes in step-change | | ✓ | ? |  |  | 2 |  |  |  | 2 |  |  | 4 | 💣 |  |  |  |  |  | 1 | 1 | 2 |  |
| Large seasonal variations/extremes in step-change | |  | 4 | 2+ |  |  |  | 3 | 2+ |  | 1 | ? |  | ? |  |  | 3 |  |  | 3 | 4 | 1 | 1 |
| Excessive mean corrections in step-changes | | ? |  |  |  | ? |  |  |  |  |  |  | 💣 |  |  |  |  |  |  |  |  | ? |  |
| Excessive mean corrections in step-changes | |  | 1 |  |  |  |  | 💣 | 💣 |  |  |  |  |  |  |  |  |  |  |  |  | ? |  |
| Step-change big difference between max & min | |  |  |  | ✓ |  |  |  |  |  | ? |  |  |  |  |  |  |  |  |  |  |  |  |
| **Blocks** of CDO data 1 day out of phase with ACORN | |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Blocks** of CDO data 1 day out of phase with ACORN | |  |  | 1 |  |  |  |  |  | **3** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vague or nil change at site signals a step-change | |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  | **🖸** |  |  |  |  |  |  |  |  |  |  |  |
| Vague or nil change at site signals a step-change | |  | 1 | 2 | 1 | 1 |  |  | 1 |  | 2 | 3 | 1 |  |  |  | 1 |  |  |  |  |  |  |
| ACORN data present online but its CDO basis no! | |  |  |  |  |  | 2 |  |  |  |  |  | 2 |  | 2 | 2 |  | 2 | 2 |  |  |  |  |
| Complex issues, see comments at affected Fig # | |  |  | 💣 | 💣 |  | 💣 | 💣 |  | 💣 |  |  | 💣 | 💣 | ✓ |  |  |  |  |  |  | 💣 |  |
| Excessively long uniform step-change (>60 years) | | **✓** |  |  |  |  |  |  |  |  | **✓** |  |  |  |  |  | **✓** |  |  | **✓** |  |  |  |
| CDO & ACORN anomalously common | |  |  |  |  | ✓ | ✓ | ✓ | ? | ✓` |  | 💣 |  | ✓ |  | ✓ |  | ✓ |  |  |  |  |  |
| Automatic weather station (AWS) introduced | |  |  | ✓ |  | ✓ |  | ✓ |  | ✓ | ✓ |  | ✓ | ✓ |  | ✓ |  |  | ✓ | 💣 |  | 💣 |  |
| Number of stations merged under the one name | | 1 | 1 | **2** | 1 | **2** | 1 | **4?** | 1 | 1 | 1 | 1 | 1 | **3** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | **2** |
| Bare monthly cycle in daily data (”Square wave”) | |  |  |  |  | 💣 |  |  |  | 💣 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Figure number >>>** | |  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** |
| **LEGEND:** **🖸** Null for this feature due other factors 💣 Weird, complicated, you can’t be serious, or excessive. **✓** Yes **?**  Subjectively marginal to the author  **+** Additional counts might marginally apply, (subjectively). | | | | | | | | | | | | | | | | | | | | | | | |