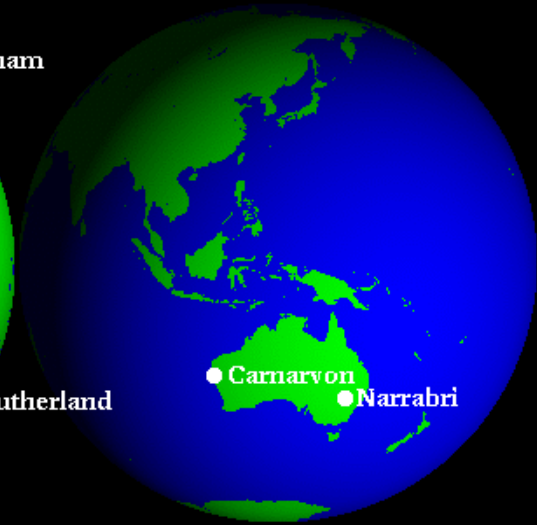


BiSON

Birmingham Solar-Oscillations Network



■ Operations: network in good health

- STFC bid for continued operations is in...
- Upgrades [STFC Impact Accelerator funds], e.g., new light-feed system tested at Mt Wilson; new miniature spectrometer ready for testing in Tenerife in Spring

■ Key Science Drivers:

- First ever seismic studies of 22-year Hale cycle (upcoming cycle 25 will be our fourth 11-year cycle...)
- New helioseismic diagnostics; discovery of new “mid-term” periodicities; disrupted trends in low-frequency modes. Is Cycle 22 the outlier??
- Breakthroughs at low-frequency: tests of new astrophysical opacities, solar abundance problem, rotation
- Important advances in analysis planned (machine learning)