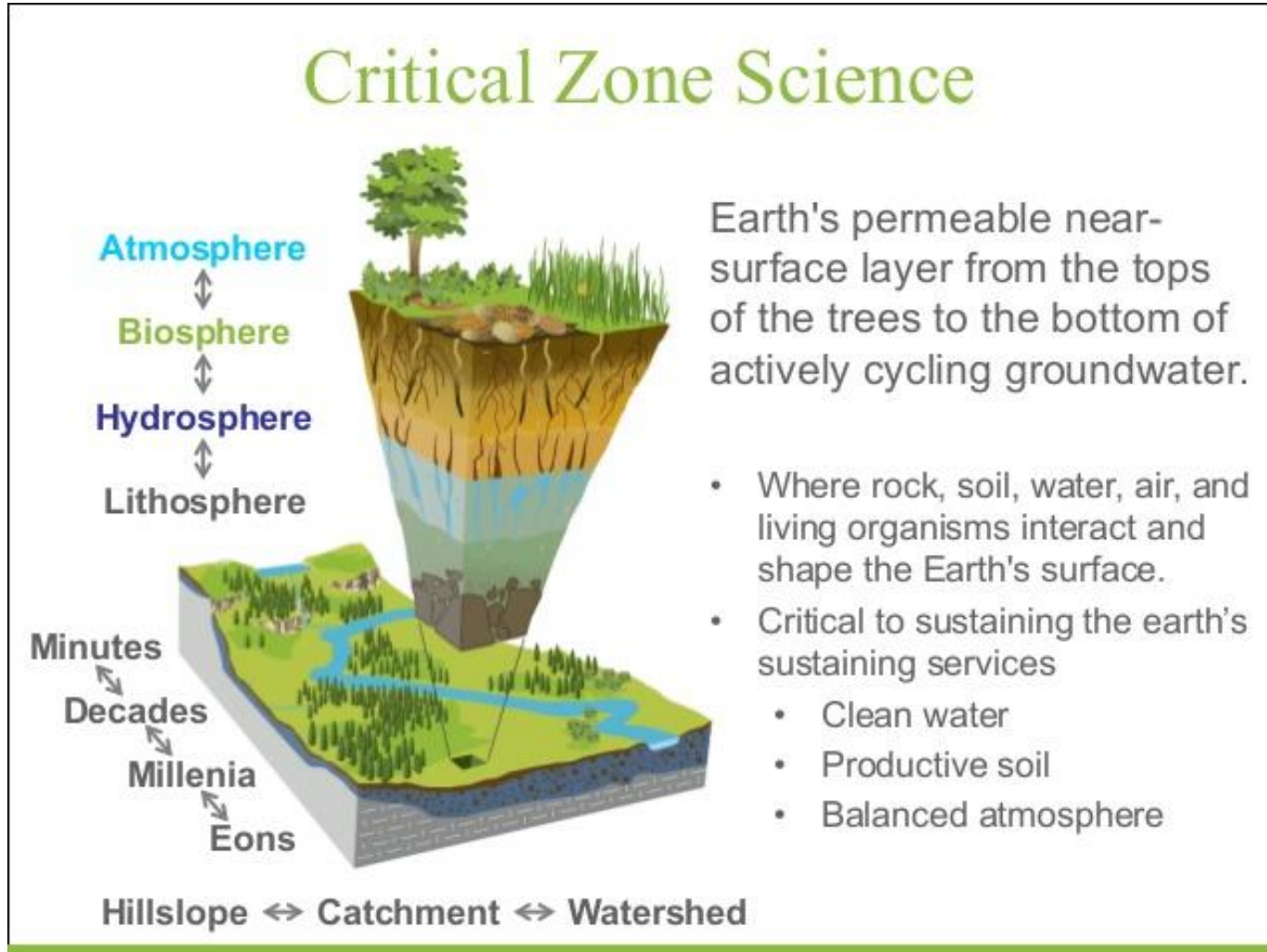


Critical Zone Observatories



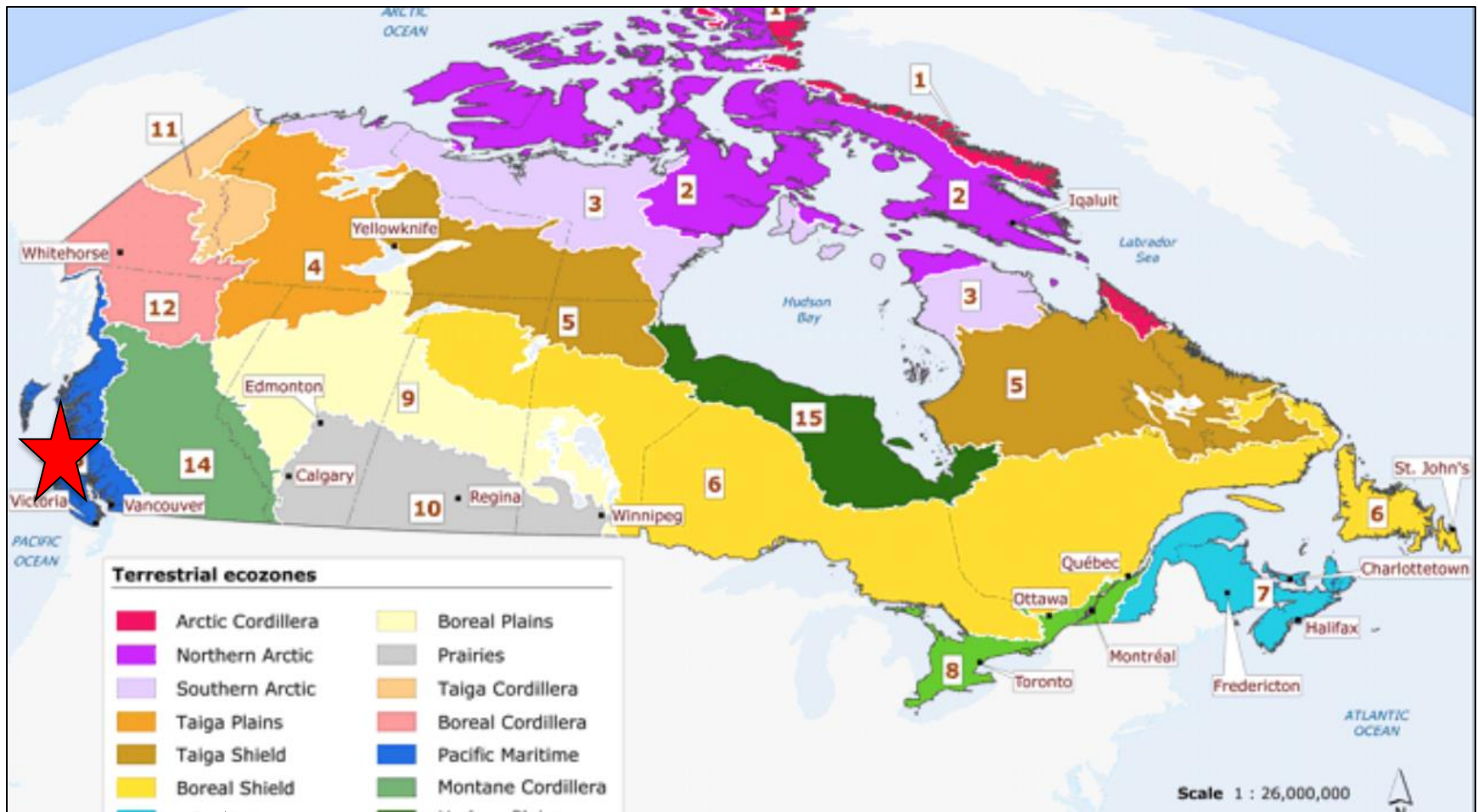
10 NSF Sponsored CZOs (big gap in north)



(criticalzone.org)

Canadian Ecosystems; 8 - CCArray

(Statistics Canada)



Hakai Institute – Calvert Island

Why Care?

1. One planet – much left to understand in CZ
2. Global Climate Change – largest impact in north; melting permafrost impacts?
3. Agriculture – how feed 15 billion by 2050?
4. Water resources??
5. How monitor forests over such large regions?
6. How does CO₂ cycle through soil?
7. McKenzie delta; Tuktoyaktuk – very vulnerable to climate change and GIA