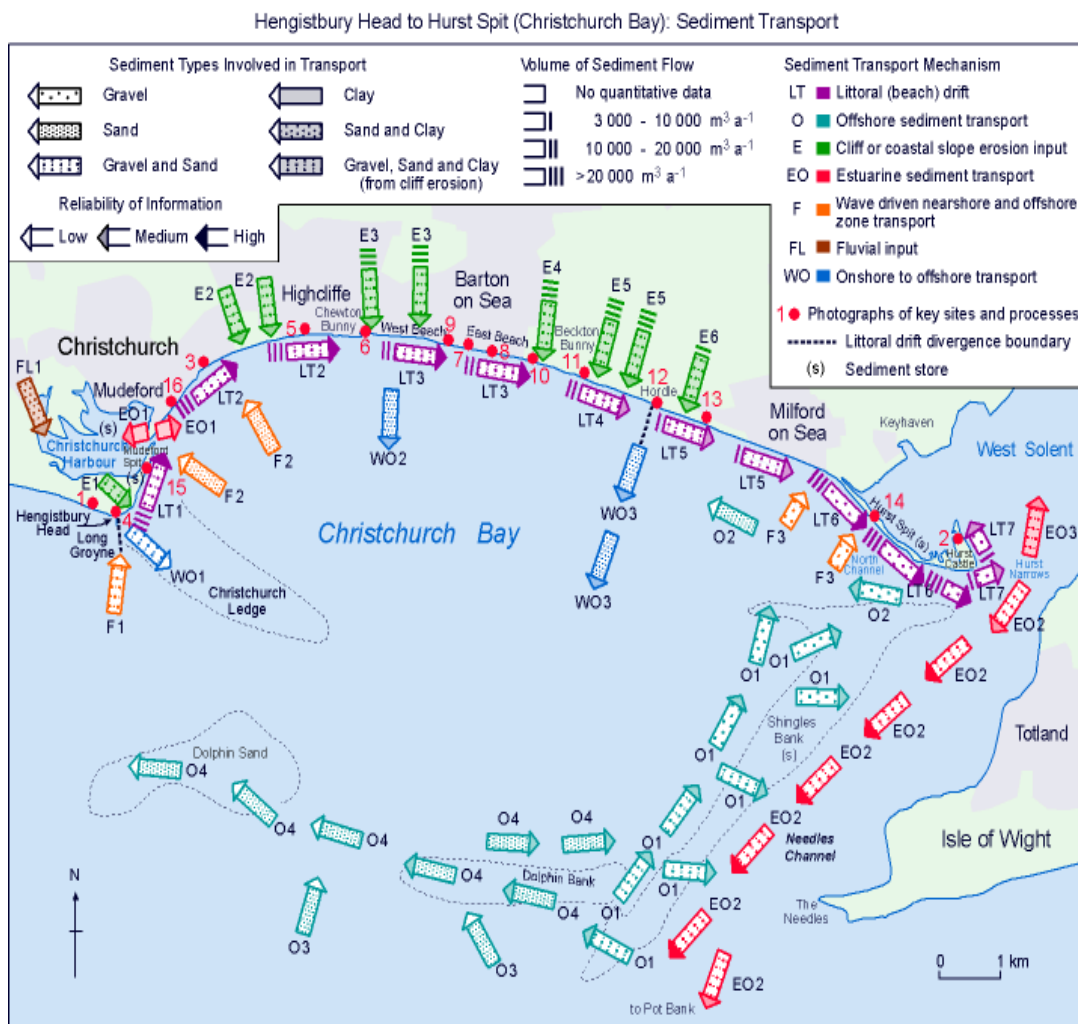




Coastal Management at Barton on Sea and Hurst Castle Spit

Follow up questions

1. Summarise the main physical processes that are active and causing the coastal erosion at Barton on Sea (ensure that you make reference to the geology of the cliffs).
2. Barton on Sea and Hurst Castle Spit are part of a sediment cell which extends from Hengistbury Head to Hurst Castle Spit and includes offshore banks of sediment:-



Source www.scopac.org.uk

3. What can we learn from this map and how does it enhance our understanding of the causes of coastal erosion at Barton on Sea and Hurst Castle Spit? Use an A3, full colour copy of this map.
4. Describe any relationship between land use categories and types of coastal defence illustrated by the results of your mapping exercise.
5. Which type, or combination of, coastal defence measures appears to be most effective at Barton on Sea and why?

6. Use the glossary on www.twobays.net to obtain definitions of the following management policy options for Barton on Sea

Hold the Line
Advance the Line
Managed Realignment
No Active Intervention

Which of these options is being followed at Barton on Sea?

Glossary of terms

Fetch
Longshore drift
Erosion
Protection
Cliff-foot erosion
Sub-aerial processes
Abrasion
Corrasion
Hydraulic action
Corrosion
Swash
Backwash
Mass movement
Slip Plane
Hard engineering
Soft engineering
Groynes
Revetments
Beach nourishment
Steel Sheet Piles
Drainage
Terminal Groyne Syndrome
Cliff-regrading
Rip-rap
Cost-benefit analysis
No Active Intervention
Hold the line
Advance the line
Managed retreat
Shoreline Management Plan (SMP)
Sediment cell
Coastal zoning