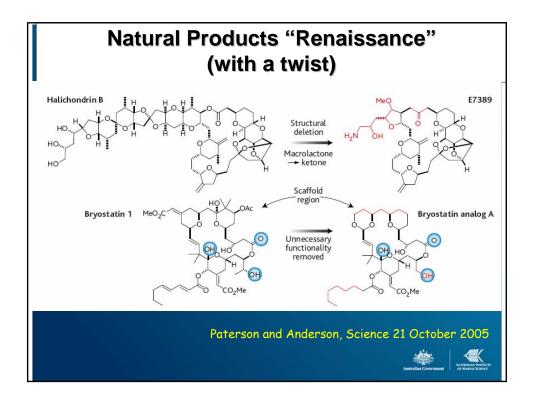
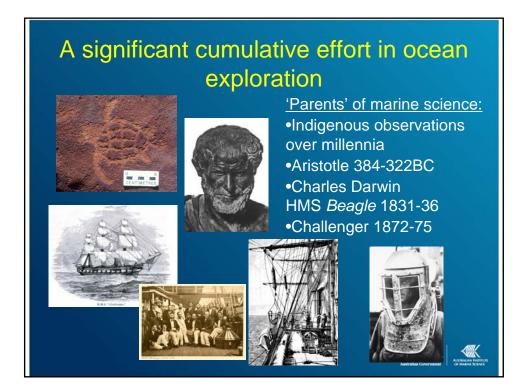
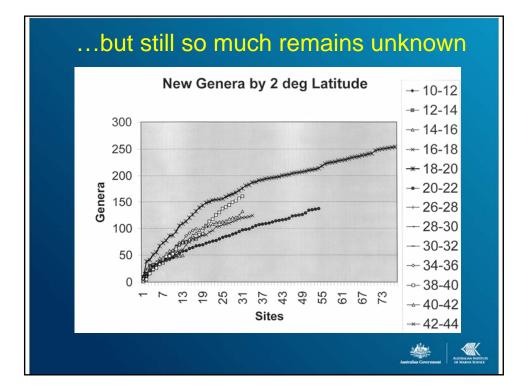


Preclinical Trials	roducts and Related Compounds in Clinical and Advance	d			
	f Marine-Derived Natural Products in Clinical and Preclinical T	rials			
name source stat	us (disease) comment				
didemnin B	Trididemnum solidum		Phase II (cancer)	dropped middle 90s	
dolastatin 10	Dolabella auricularia(marine microbe derived;cyanophyte)	Phase I/II (cancer)		trials	
girolline	Pseudaxinyssa cantharella		Phase I (cancer)	discontinued	
bengamide	Jaspis sp.		Phase I (cancer)	licensed Novartis	
cryptophycins	Nostoc sp. & Dysidea arenaria		Phase I (cancer)	licensed to Lilly	
bryostatin 1	Bugula neritina				GPC Bio
dolastatin	Dollabella		Phase II (cancer)		
ecteinascidin	Ecteinascidia turbinata		Phase II/III (cancer)	) licensed to J&J	
aplidine	Aplidium albicans	Phase II (cancer)			
E7389 (Hali B)	Lissodendoryx sp	Phase I (cancer)	Eisai		
discodermolide	Discodermia dissoluta		Phase I (cancer)	licensed to Novartis	
kahalalide F	Eylsia rufescens/Bryopsis sp.		Phase II (cancer)	licensed to PmMar	
Spisulosine	Spisula polynyma	Phase I (cancer)	Rho-GTP inhibitor		
HTI-286	Cymbastella sp		Phase II (cancer)	licensed to Wyeth	
KRN-7000	Agelas mauritianus	Phase I (cancer)			
squalamine	Squalus acanthias	Phase II (cancer)	antiangiogenic		
Laulimalide	Cacospongia mycofijiensis		preclinical (cancer)		
Curacin A	Lyngbya majuscula	preclinical (cancer)			
vitilevuamide	Didemnum cucliferum & Polysyncraton lithostrotum	preclinical (cancer)			
diazonamide	Diazona angulata	preclinical (cancer)			
eleutherobin	Eleutherobia sp.	preclinical (cance			
sarcodictyin	Sarcodictyon roseum		preclinical (cancer)		
peloruside A	Mycale hentscheli	preclinical (cance		Just licensed	
salicylihalimide			preclinical (cancer	r)	
thiocoraline	Micromonospora marina		preclinical (cancer)		
variolins	Kirkpatrickia variolosa		preclinical (cancer		
dictyodendrins	Dictyodendrilla verongiformis		preclinical (cancer)	licensed to Taiho	
manoalide	Luffariaella variabilis		Phase II		discontinued
IPL-576,092	Petrosia contignata	Phase II		licensed to Aventis	
ziconotide	Conus magus		Phase III pain	licensed to WL	
CGX-1160 plus	Conus geographus, catus, victoriae	Phase I (pain)			
Journal of Natura	Products Reviews				
	* and Gordon M. Cragg				
	Branch, Developmental Therapeutics Program, NCI-Frederick	PO Roy B Freder	ick Manuland 21702		
			,		
	rv 10, 2004; see also Fortman and Sherman CC 2005				





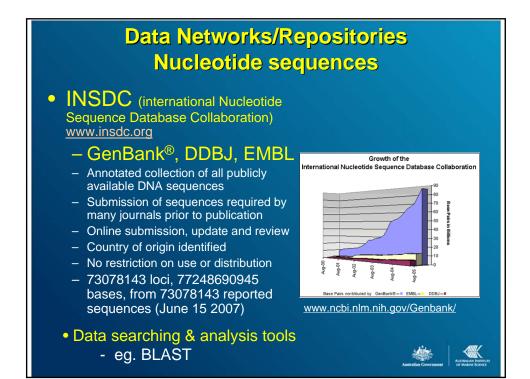




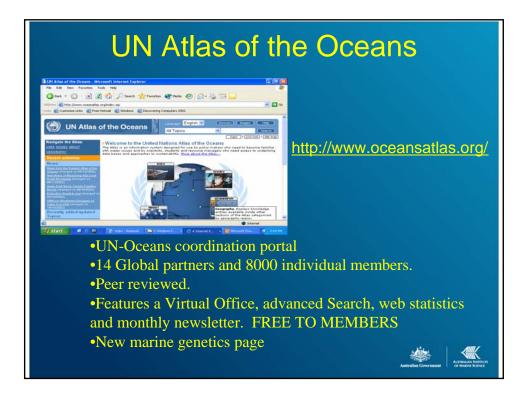
## Where is the data? How can we access it?

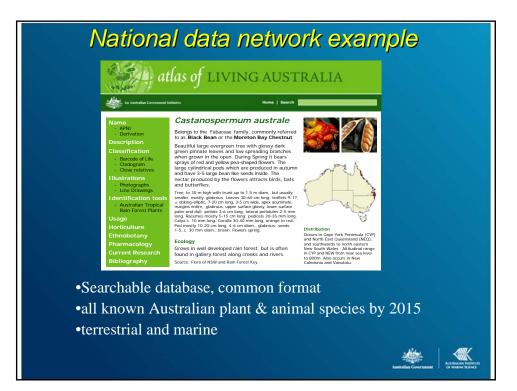
- Specialist data
- Published Literature
- Portals for metadata
- Networked datasets
- Integrated datasets

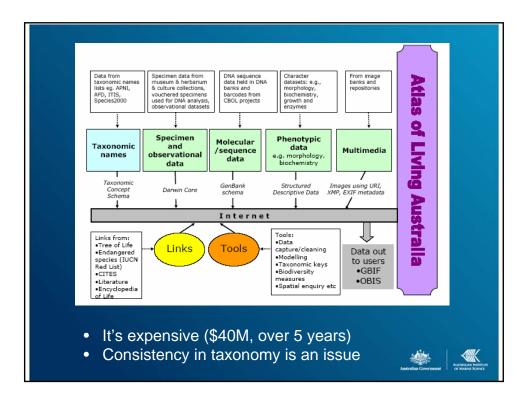
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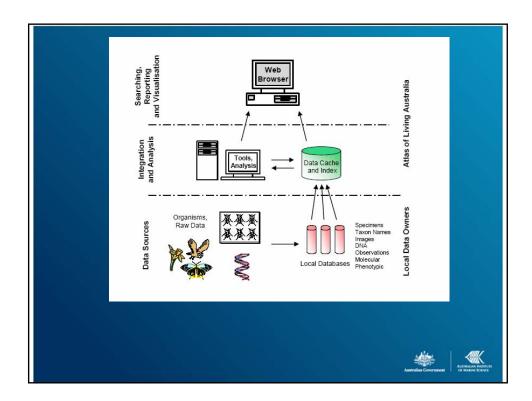


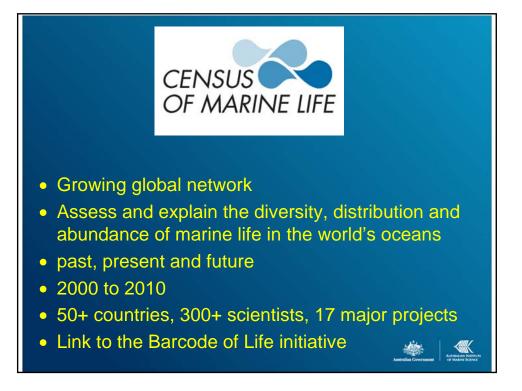


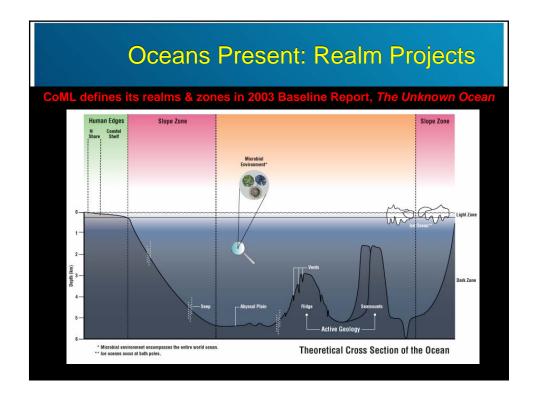






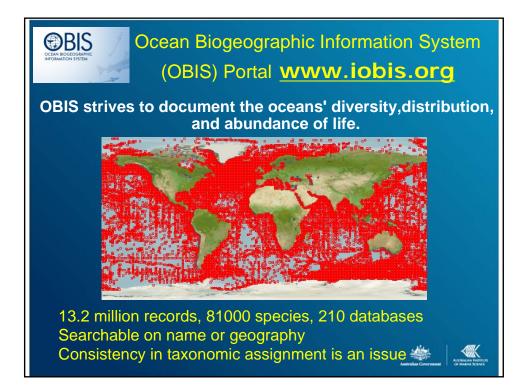


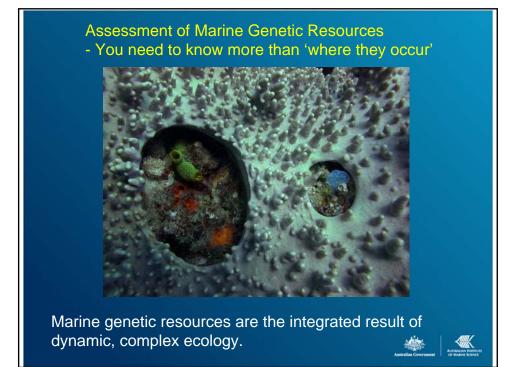


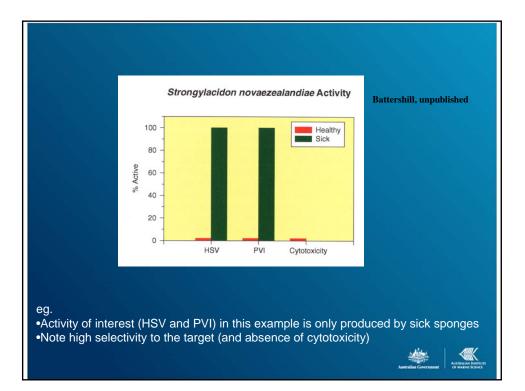


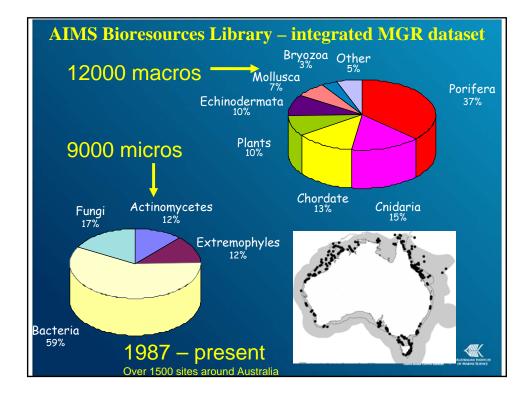
## **Ocean Realm Field Projects**

Human Edges	Nearshore: NaGISA Reefs: CReefs Regional Ecosystem: GoMA Continental Shelf: POST
Hidden Boundaries	Continental Margins: COMARGE Abyssal Plains: CeDAMar
Central Waters	Zooplankton: CMarZ Top Predators: TOPP Ridges: MAR-ECO
Active Geology	Vents & Seeps: ChEss Seamounts: CenSeam
Ice Oceans	Arctic: ArcOD Antarctic: CAML
Microscopic Ocean	

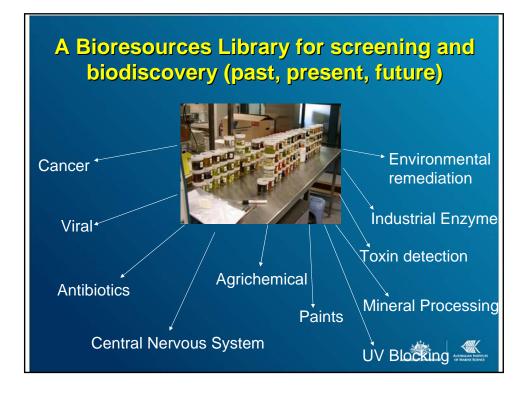




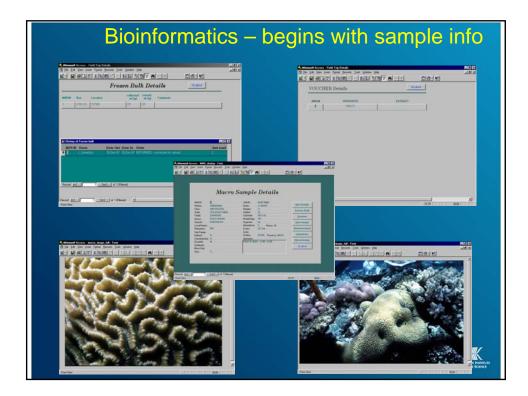




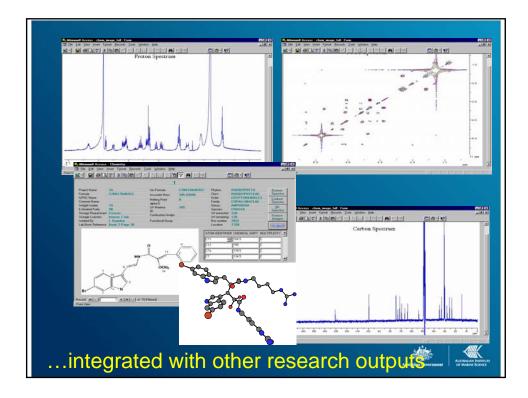
COLLECTION DATA	<ul> <li>Precise location</li> <li>Depth</li> <li>Size</li> <li>Best taxonomy (voucher back-up)</li> </ul>
	<ul> <li>Imagery</li> <li>Coded descriptions <ul> <li>habitat</li> <li>morphology</li> <li>substrate</li> <li>colour(external/internal)</li> <li>epibionts</li> <li>symbionts</li> </ul> </li> <li>Descriptive notes and observations</li> <li>Site information (location, habitat description, community composition)</li> </ul>
	Micros: •Details of source and selective isolation With the selective isolation

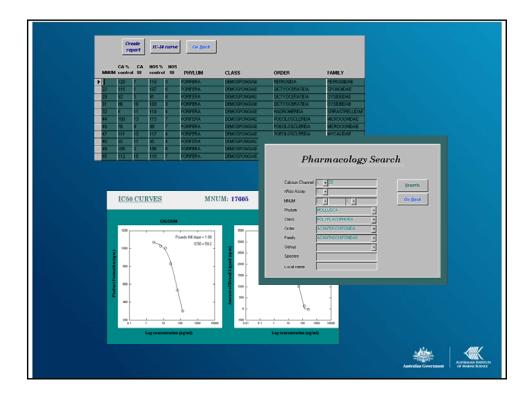


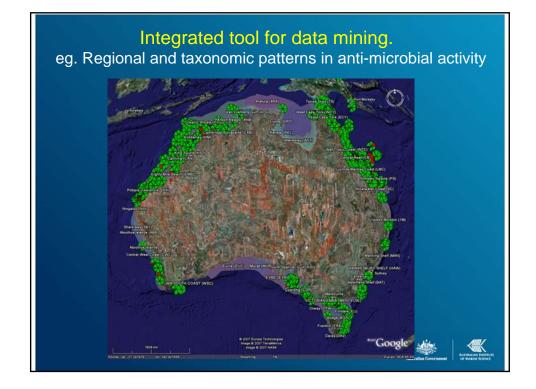


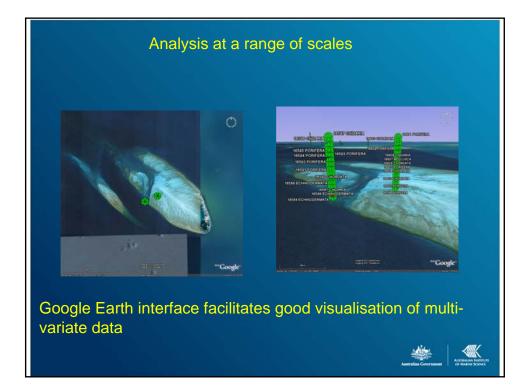


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## Understanding the chemical ecology Apply data-mining to enhance biodiscovery

- Elaborate leads
  - identifying other material with similar
  - taxonomy/ecology/ screening profile/chemistry
  - Naturally occurring analogues
  - Re-supply without re-collecting
- Predict results of future screening based on past profile
  - Compile list of pre-leads
  - Targeted biodiscovery with ex-situ material

