Age (Ma)	Period	Epoch	Stage	Sequences	Basin phases	Seismic horizons (GA 2014)
	QUATERNARY	Holocene / Pleistocene	Tarantian (Lt. Pleist.) / Ionian (M. Pleist.)			
	NEOGENE	Pliocene	Calabrian / Gelasian / Piacenzian / Zanclean / Messinian	T40	Inversion (2)	Timio
10	NEOGENE	Miocene	Tortonian	T30		Tmmio
	NEOGENE	Miocene	Serravallian / Langhian			
20	NEOGENE	Miocene	Burdigalian / Aquitanian			Temio
30	PALEOGENE	Oligocene	Chattian / Rupelian			Tolig
40	PALEOGENE	Eocene	Priabonian / Bartonian / Lutetian	T20		
50	PALEOGENE	Eocene	Ypresian			Teoc / Tpal
60	PALEOGENE	Paleocene	Thanetian / Selandian / Danian	T10		Tbase
70	CRETACEOUS	Late	Maastrichtian / Campanian	K60	Thermal subsidence (2)	Kmaas / Klcamp
80	CRETACEOUS	Late	Campanian			Kecamp
90	CRETACEOUS	Late	Santonian / Coniacian / Turonian	K50		Ktur
100	CRETACEOUS	Late	Cenomanian			
110	CRETACEOUS	Early	Albian	K40		Kalb2 / Kalb1
120	CRETACEOUS	Early	Aptian			Kapt
130	CRETACEOUS	Early	Barremian / Hauterivian	K30 / K20		Kbar
140	CRETACEOUS	Early	Valanginian / Berriasian	K10		Kval / Kbase
150	JURASSIC	Late	Tithonian / Kimmeridgian	J50 / J40		Jtith / Jkimm
160	JURASSIC	Late	Oxfordian / Callovian	J30		Jcal
170	JURASSIC	Middle	Bathonian / Bajocian / Aalenian	J20	Extension (2)	Jearly
180	JURASSIC	Early	Toarcian			
190	JURASSIC	Early	Pliensbachian / Sinemurian			Jbase
200	JURASSIC	Early	Hettangian	J10		
210	TRIASSIC	Late	Rhaetian / Norian	TR30 / TR20	Inversion (1)	
220	TRIASSIC	Late	Norian			
230	TRIASSIC	Late	Carnian			Trmid
240	TRIASSIC	Middle	Ladinian / Anisian	TR10	Thermal subsidence (1)	
250	TRIASSIC	Early	Olenekian / Induan			P
	PERMIAN	Lopingian	Changhsingian / Wuchiapingian	P50		
260	PERMIAN	Guadalupian	Capitanian / Wordian / Roadian			
270	PERMIAN	Cisuralian	Kungurian			
280	PERMIAN	Cisuralian	Artinskian / Sakmarian / Asselian		Extension (1)	Pearly
290	CARBONIFEROUS	Late Pennsylvanian	Gzhelian / Kasimovian			
300	CARBONIFEROUS	Middle Pennsylvanian	Moscovian			
310	CARBONIFEROUS	Early Pennsylvanian	Bashkirian			

Brecknock-Scott Reef Trend	Caswell Sub-basin	Barcoo Sub-basin	Prudhoe Terrace	Yampi Shelf	Leveque Shelf
Barracouta Shoal Formation	Barracouta Shoal Formation	Barracouta Shoal Formation	Barracouta Shoal Formation	Barracouta Shoal Formation	Barracouta Shoal Formation
Oliver Formation	Oliver Formation	Oliver Formation	Oliver Formation; Oliver Sandstone Member (Oliver Formation)	Oliver Formation; Oliver Sandstone Member (Oliver Formation)	Oliver Formation
Cartier Formation	Cartier Formation	Cartier Formation	Oliver Formation	Oliver Formation	
Prion Formation; undifferentiated Hibernia Formation	undifferentiated	Prion Formation; undifferentiated Hibernia Formation	undifferentiated	Hibernia Formation; Grebe Sandstone Member (Hibernia Formation)	Hibernia Formation; Grebe Sandstone Member (Hibernia Formation)
Johnson Formation	Bassett Formation	Johnson Formation	Johnson and Bassett Formation	Bassett Formation	Bassett Formation
Wangarlu Formation	Puffin Formation	Wangarlu Formation	Puffin Formation	Puffin Formation	Puffin Formation
	Fenelon Formation	Fenelon Formation	Fenelon Formation		Fenelon Formation
	Brown Gannet Limestone	Brown Gannet Limestone	Brown Gannet Limestone		Brown Gannet Limestone
	Woolaston Formation	Woolaston Formation	Woolaston Formation	Woolaston Formation	Woolaston Formation
upper Jamieson Formation	upper Jamieson Formation	upper Jamieson Formation	upper Jamieson Formation	upper Jamieson Formation/ upper Heywood Formation	upper Jamieson Formation
lower Jamieson Formation	lower Jamieson Formation	lower Jamieson Formation	lower Jamieson Formation	lower Jamieson Formation/ lower Heywood Formation	lower Jamieson Formation
Echuca Shoals Formation	Asterias Member; Echuca Shoals Formation	Echuca Shoals Formation	Asterias Member; Echuca Shoals Formation	Asterias Member; Echuca Shoals Formation	Asterias Member; Echuca Shoals Formation
upper Vulcan Formation	Brewster Member (upper Vulcan Formation); upper Vulcan Formation	Vulcan Formation undifferentiated	upper Vulcan Formation; Brewster member; upper Vulcan Formation	upper Vulcan Formation	upper Vulcan Formation
lower Vulcan Formation	lower Vulcan Formation		lower Vulcan Formation		lower Vulcan Formation
Montara Formation	Montara Formation		Montara Formation		Montara Formation
Plover Formation (includes Ashmore Volcanics)	Plover Formation (includes Ashmore Volcanics)	Plover Formation	Plover Formation (includes Ashmore Volcanics)		
Nome Formation	Nome Formation	Nome Formation	Nome Formation		
Challis Formation	Challis Formation	Challis Formation			
	Pollard Formation		undifferentiated Sahul Group		
	Osprey Formation				
	undifferentiated Kinmore Group equivalents		undifferentiated Mount Goodwin Subgroup; undifferentiated Hyland Bay Subgroup		
	undifferentiated Kulshill Group equivalents		undifferentiated Kulshill Group equivalents		
	undifferentiated Weaber Group equivalents				

Woodbine Group; Bathurst Island Group; Swan Group; Troughton Group; Sahul Group; Kinmore Group; Kulshill Group; Weaber Group

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Sandstone; Clayey Sandstone; Sandy Limestone; Limestone; Chalk; Claystone; Sandy claystone; Volcanics

Oil discovery; Gas discovery; Oil and gas discovery; Gas discovery and oil show; Oil and gas show; Oil show; Gas show