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Biogeographical Regionalization YouTube Lecture Handouts

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Watch video lecture on YouTube: Biogeographic Regionalization: Holdridge, Rapoport, MacArthur & Wilson, Pielou, Muller, Morrone Biogeographic Regionalization: Holdridge, Rapoport, MacArthur & Wilson, Pielou, Muller, Morrone

Find this video at: <https://www.youtube.com/video/7PHT7WPUb2A?rel=0>

Biogeographical Classification

- Major Classifications
- Terrestrial Plants
- Terrestrial Animals
- Aquatic Plants & Animals

Classification

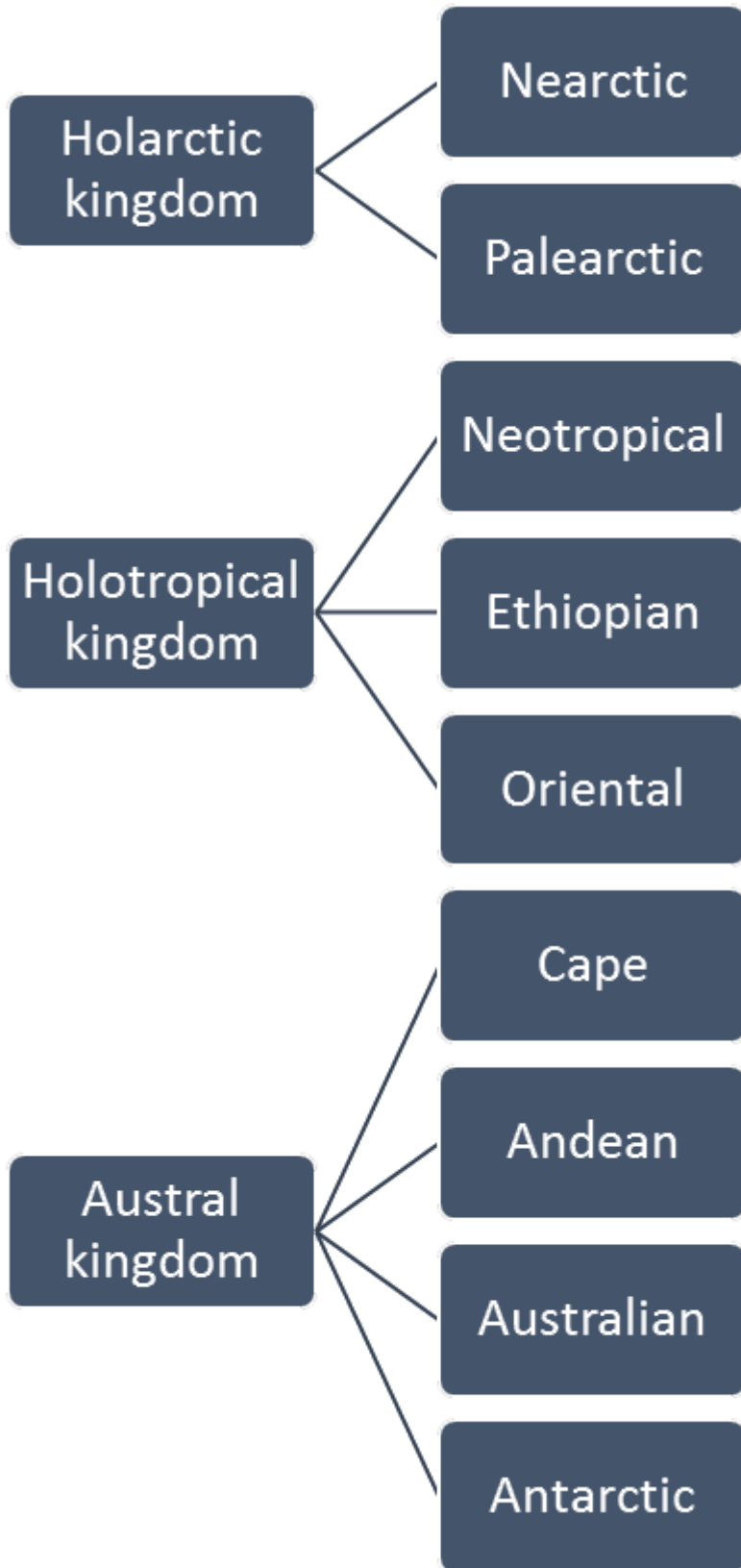


Image of Classification of Biogeographic Regionalization

Key Idea:

- Hierarchical System
- Initially based on intuition
- Later based on endemic species

Benefits:

- Arrangement
- Summarize
- Condense

Modern biogeographic research

It includes ideas and information from many fields from the physiological and ecological constraints on organismal distribution to geological and climatological occurrences operating at global spatial scales and evolutionary time frames.

Holdridge'S Life Zone Classification

- Life Zone = Plants +Animals share unique characteristics – by Merriam in 1889
- 3 Factors Considered

Vavilov Geneceter, Ronald Good (Plant) & Wallace'S (Animal) Classification

Watch video lecture on YouTube: Classification & Global Distribution of Plants and Animals - Vavilov's Genecenters Classification & Global Distribution of Plants and Animals - Vavilov's Genecenters

Find this video at: <https://www.youtube.com/video/FWpdxPdLVRc?rel=0>

MacArthur and Wilson'S Method

- Island geography
- Colonize uninhabited island
- No Phylogenetic analysis

Rapoport'S Classification

3 regions:

- Holarctic
- Holotropical
- Holantractic

Stevens – Rapoport's rule

Pielou'S Classification

- Nearctic

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- Paleotropical
- Neotropical
- Ethiopian
- Oriental
- Australasian
- Oceanian
- Antarctic

Realms	Regions	Sub-regions	Classical System of Regions
Arctogeanean	Holarctic	Arctic	Nearctic
		Nearctic	Palaearctic
	Paleotropical	Caribbean	Oriental
		Palaearctic	
		Oriental	Ethiopian
Neogeanean	Neotropical	Ethiopian	
		Malagasy	
Notogeanean	Australian	Neotropical	Neotropical
	Oceanian	Australian	Australian
		Papuan	
		New Zealandian	Unclassified
		Oceanic	
		Antarctica	

Classification and Global Distribution of Plants

Muller's Classification

- 5 Regions
- 5 Transition Zones

Morrone's Classification

- Historical changes
- 3 kingdoms and 12 regions

Complete details on biogeographical regionalization and study material can be fetched at: [Examrace IAS Mains Geography Optional Series \(Includes 2017 Contemporary Topics\)](#)

-Manishika