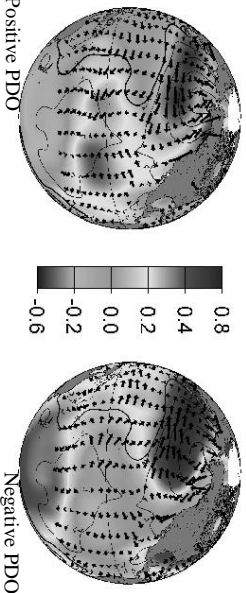


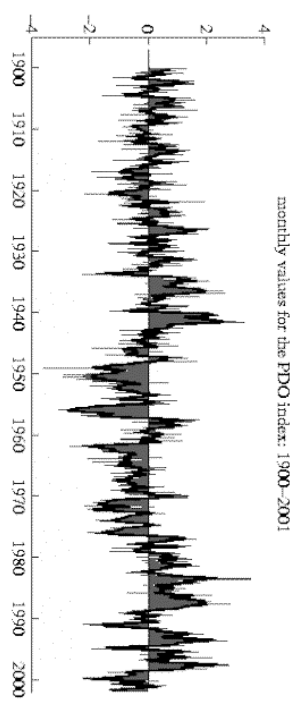
Pacific Decadal Oscillation



- "Pacific Decadal Oscillation" (PDO) is a decadal-scale climate variability that describe an oscillation in northern Pacific sea surface temperatures (SSTs).
- PDO is found to affect Alaska salmon production cycles.
- PDO is found to link to the decadal variations of ENSO intensity.

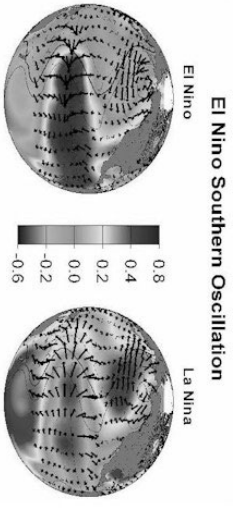
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Decadal Variations



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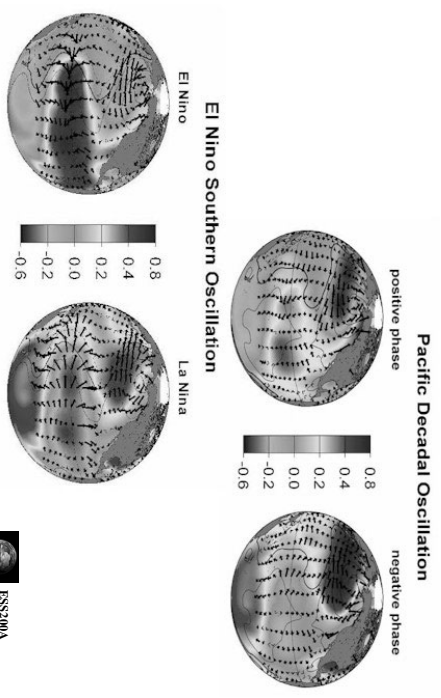
El Nino-Southern Oscillation (ENSO)



- ENSO is a interannual (year-to-year) climate variability in the eastern tropical Pacific Ocean.
- ENSO is found to have profound impacts on global climate.

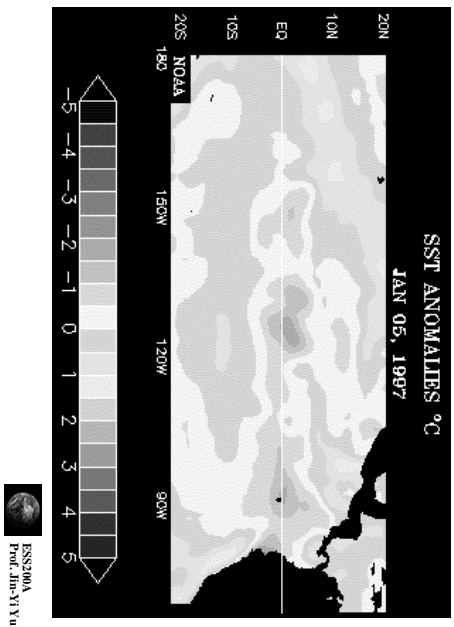
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PDO and ENSO

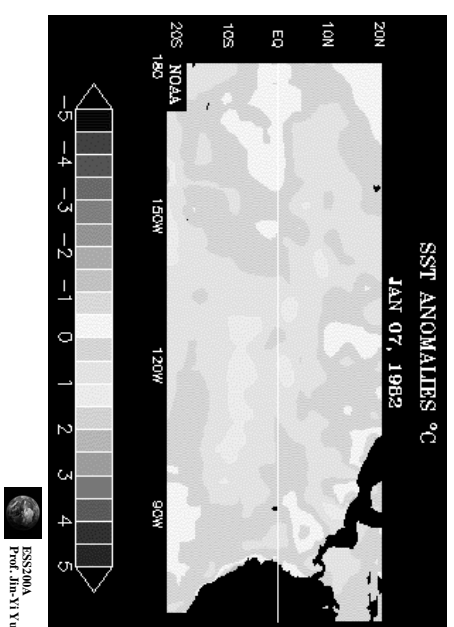


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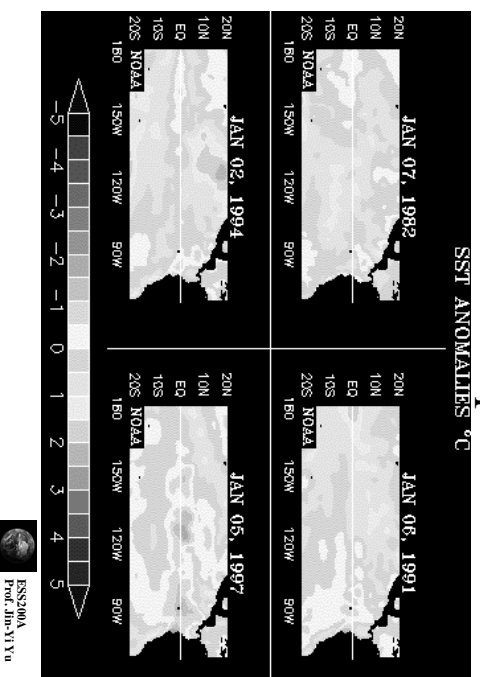
1997-98 El Nino



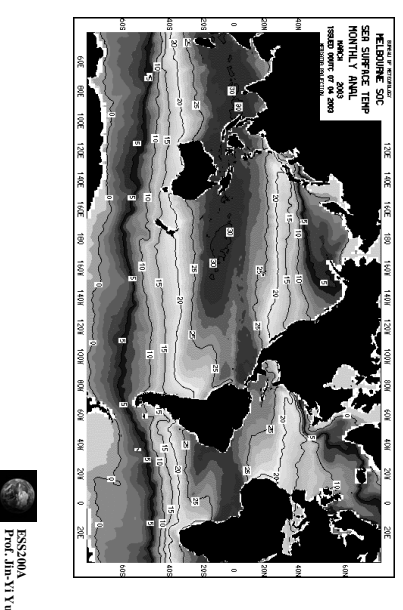
1982-83 El Nino



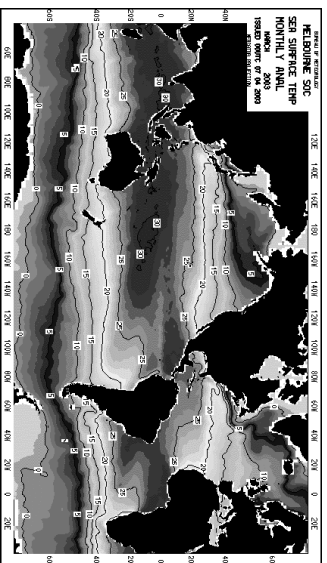
El Nino Comparisons



Walker Circulation and Ocean Temperature

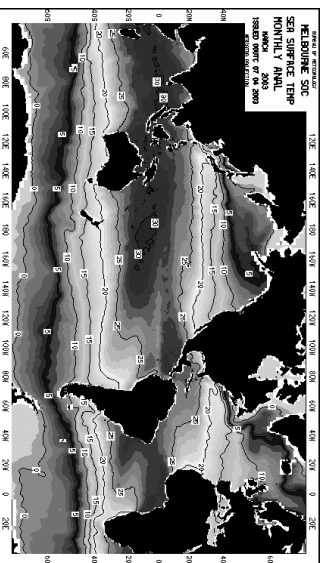


Walker Circulation and Ocean Temperature



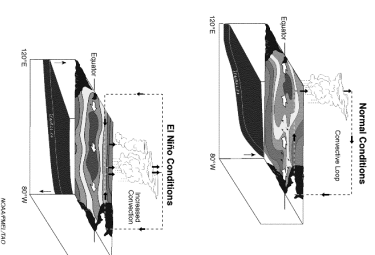
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Walker Circulation and Ocean Temperature



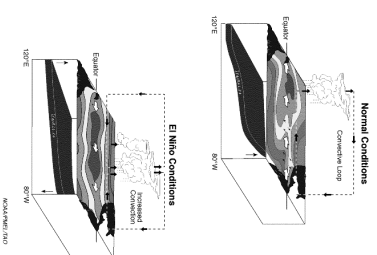
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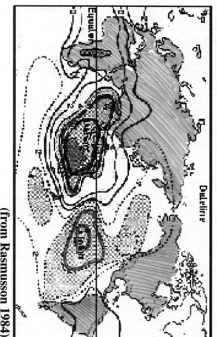
Walker Circulation and Ocean



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Southern Oscillation: an atmospheric phenomenon

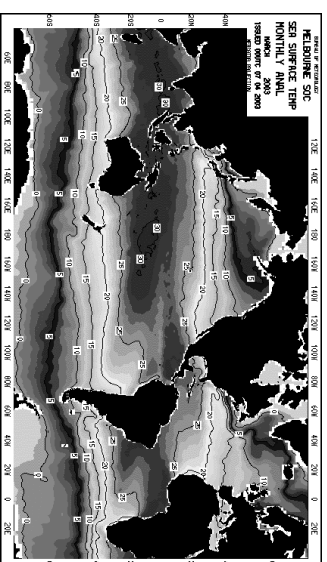
In 1910s, Walker found a connection between barometer readings at stations on the eastern and western sides of the Pacific (Tahiti and Darwin). He coined the term Southern Oscillation to dramatize the ups and downs in this east-west seesaw effect.



Sir Gilbert Walker

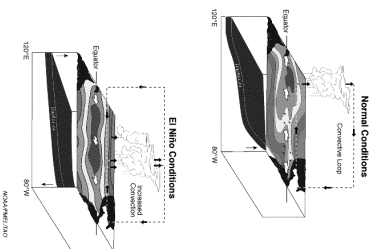
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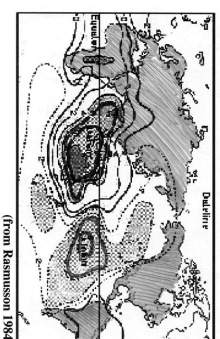
Walker Circulation and Ocean



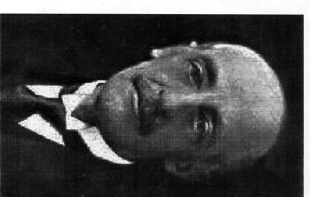
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(from Kasamisson 1984)



Sir Gilbert Walker

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History of El Niño

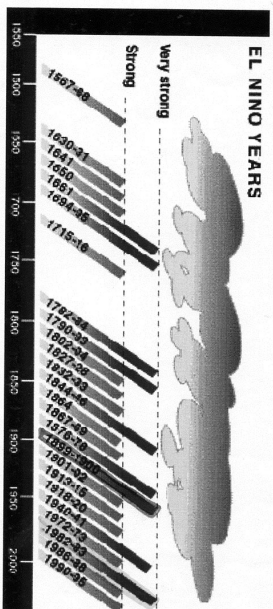
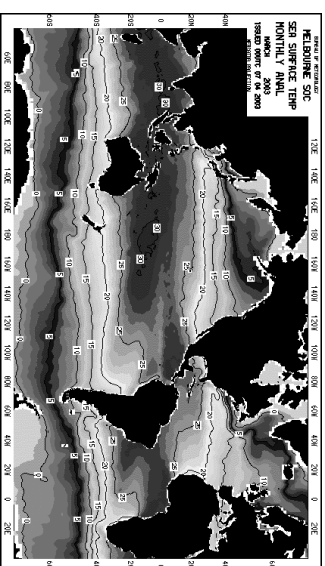


Table from Environmental News Network



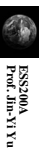
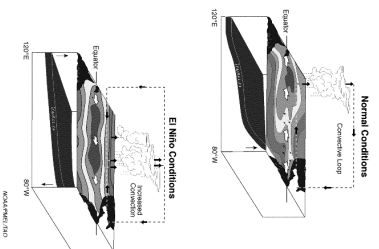
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Walker Circulation and Ocean Temperature



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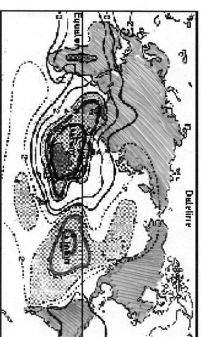
Walker Circulation and Ocean



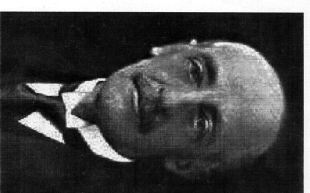
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(from Kasmusson 1984)



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History of El Niño

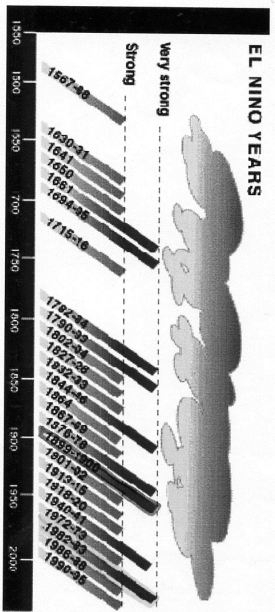


Table from Environmental News Network

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