

# Natural Climate Variability on Decade-to-Century Time Scales

National Academies Press - Climate Variability and Change

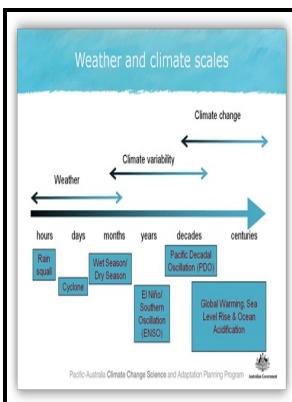
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This edition was published in August 30, 1996



Tags: #Climate #Variability #and #Change

## Climate Variability and Prediction

The research activities over the last 10 years have led to incredible progress in the modeling of climate, especially on the geologic time scales.

## Natural variations in climate

CCSM-4 historical r1i1p1 was matched to CCSM-4 RCP r1i1p1. To derive the climate indices of AMV and PDV, we also used the objectively interpolated HadISST at  $1 \times 1$  degree horizontal resolution in order to avoid the influence of missing data on the resulting AMV and PDV indices



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and spatial patterns.

## Teaching Essential Principle 4: Climate varies over space and time through both natural and man

In this regard, the IGBP Past Global Change project PAGES is timely IGBP, 1992; see also Bradley, 1991.

### Time Scales

The flooding in Texas in August 2017 caused by Hurricane Harvey is a recent and devastating example of an extreme precipitation event.

### Causes of Climate Change

**INTRODUCTION** An increasing number of earth scientists have become interested in understanding natural variability in the climate system on century and especially on decadal time scales. Actual coastlines are used in the construction of this map in order to facilitate orientation. He has thus given me the opportunity to touch on a few of these in relation to my own paper.

### **Regional Scale Climate Variability**

Palaeoclimate evidence also demonstrates that fire-promoting phases of tropical Pacific and Indian ocean variability are now unusually frequent compared with natural variability in pre-industrial times.

### **Natural variations in climate**

This seasonal dependence in the high latitudes results partially from changes in sea-ice thickness associated with changes in the intensity of the thermohaline circulation.

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