The inconsistent Sun
Sunspot Cycles: Past and Future

- Sunspot Number
- Cycles 18, 19, 20, 21, 22, 23, 24, 25
The Babcock Model
Does it matter?
“That's me, there”
Game addict kids hit by ‘extinct’ bone disease

By EMMA MORTON, Health and Science Editor
Published: 13 Nov 2010

CRIPPLING bone disease rickets has made a comeback - because kids are staying indoors playing video games instead of playing in the sunshine.

The condition - rife in gloomy 19th-century slums but with health improvements long thought to be eradicated - is on the rise. It causes bones to become soft or misshapen due to a lack of vitamin D. But with the rise in obesity and sedentary lifestyles, the risk is higher than ever. A study in the BMJ has called for parents to encourage children to get more exercise and more vitamin D in their diet.
Skin colour map for indigenous people
Predicted from multiple environmental factors
What can we do about it?
Observing Solar Eruptions with the Solar Dynamics Observatory
Life Cycle of the Sun

Birth: 1
Gradual warming: 5-8
Red Giant: 9
Planetary Nebula: 10-11
White Dwarf: 12-14

Billions of Years (approx.)

Not to scale
Long-term climatic (Milankovitch) cycles over last 415 000 years from the Vostok ice core.
The graph illustrates temperature changes over time, with key periods labeled:

- **Viking Era**
- **Medieval Optimum**
- **20th Century Average temps**
- **Spörer Minimum**
- **Little Ice Age**
- **Maunder Minimum**
- **Dickens Winters**
- **Modern Era**

The x-axis represents the centuries from 900 to 2000, while the y-axis shows temperature in degrees Celsius.