

Toward a Standard Moon T. Schneck Civil Engineer (11/13 rue Lobineau 75006 Paris
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Global Warming Biosphere: A quarter of the Ice-Sheet growth is caused by Global Warming in Greenland. The most substantial thinning is observed over outlet glacier. The Icelandic low shifted southwestward in Cape Farewell in 1996. The changes observed are associated with a record positive-to-negative NAO index reversal. The open oceans are typically micro-tidal in the North Atlantic Hemisphere, with a deflection of water to the right. A number of radiosondes and satellites data sets suggest that the tropical troposphere has warmed less than the surface or even cooled, which would correspond to an increase in lapse rate. The snowmelt regional decadal change has advanced 5 days/decade North of 45° N and 9.1 days/decade for the entire Alaskan slope comparable to the global atmospheric heating associated with twice the present value atmospheric CO₂.

North Atlantic Decadal variability: The climate system is strongly influenced by internal variability mode, the gyre index is associated with the leading Sea Surface high mode related to a hurricanes growth over the last decades. The effect of "a leap second" acceleration introduced since 1900, 32 seconds since 1958, in atomic clocks according to the Coriolis acceleration due to the rotation of the Earth may be significant at high latitudes causing the greater deflection of water and the last decadal increase of the hurricanes observed in the Northern Hemisphere. The Potential Storm from 1980 to 2007 simulation of the recent multi-decadal increase of Atlantic hurricanes activity using a 18 km grid regional model (NOAA) is identified after 6 hours with a relative vorticity at 850 hPa exceeding 1.6.

Moon is currently retreating 3.82 cm/year: Some centimeters per year, 3.82 cm/year, but the days length have slightly changed over the Cambrian, is the rate at which the Moon is currently retreating slowing the earth rotation. The synchronous rotation of the Moon around the earth is caused by the unsymmetrical distribution of mass in the Moon. During the year 1996, the GPS time minus UTC time was 12 seconds. The current Earth rotation measurements techniques are not sensitive enough to detect rotational changes caused by Earthquakes as large as magnitude 8, present GPS femtosecond accuracy ie: 1s/32000 years.

Earthquakes magnitude 9 rotational Changes shifted by 2.5 cm the North Pole: The preliminary studies for the 2004 3.267°N, 95.821°E magnitude 9, Northern Sumatra Earthquake show a bilateral rupture on the India and Burma plates with a complex source time function of 210 sec duration and a total scalar seismic moment of 7.25x10²¹ Nm. It affected Earth's rotation, decreased the length of the day by 2.68 microseconds, slightly changed the shape of the planet bulging the equator and shifted the north pole by 2.5 centimeters in the direction of 145 degrees East longitude.

Earth Inner Core is rotating faster than the Mantle: The magnetic crustal thickness has increased to the east and northeast, in the direction of the subduction zone, the Earth inner core is rotating faster than the mantle and crust at about 0.3° to 0.5° per year increasing or decreasing the earth magnetic field when each leap second is added and increasing the continental drift. Since the Oligocene, the Caribbean Plate drifts eastward 1.3 cmr/year relative to South America.

Earth spin rate irregularities 60 milliseconds over the year 1967: The ephemeris seconds introduced before 1967, for the irregularities in the spin rate of the earth of about 60 milliseconds over the year, required one-year averages. The light we are presently observing from large quasars over 9 billion light years away to cross such a distance to reach us that it actually left the group before the earth was formed. The Degree Angular Scale Interferometer (DASI) based near the South Pole has produced detailed maps of CMBR variation and polarization: the shape of spacetime is flat. In 1887, the Michelson Morley Interferometer has measured the speed of light in meter per second as the earth passage through postulate aether.

Toward a Standard Moon, The Climate responses to reduced irradiance during Maunder Minimum, low number of sunspots at little ice age from 1645 to 1715 (Jupiter GRS), are a shift toward the low index Arctic Oscillation/North Atlantic Oscillation state and a upper stratospheric ozone increase. The Moon which is rotating with the Earth would evolved at a standard distance, the present one, with even a quarter of the uncertainty introduced in the Time set to Universal Time and Earth Time. The mystery remaining from Apollo samples has been the origin of magnetization in lunar rocks. Available data suggest that the lunar magnetization was delayed until 3.9 Ga, a Mars dichotomy boundary timescale at the end of the Noachian, 600 Ma years after planetary accretion and iron core formation. Mars Global Surveyor's magnetometer has identified ancient plate tectonics in Mars southern hemisphere. The strong orbital variation 40% in solar flux incident on Mars leads to distinct aphelion paleoclimate and perihelion climate. IRTF has mapped a significant increase in the CO mixing ratio to Mars South Winter Pole. The ionization rate in Titan's atmosphere was observed by Voyager spacecraft. IRAS Subsequent analysis have revealed a CO to H₂ mass conversion calibration in Titan atmosphere and a photon induced responsivity enhancement over Saturn crossing the Galactic Plane as a function of the ecliptic longitude. The atmosphere models on Mars (Tharsis formation 1,5 bar pressurized atmosphere) and Venus support CO₂ as the active fluid. Venus' atmosphere like 1 km depth Ocean pressure is about 95 percent carbon dioxide, the coupled effect of chemical reactions and albedo stabilizes the surface temperature against variations of solar luminosity and atmospheric abundance.