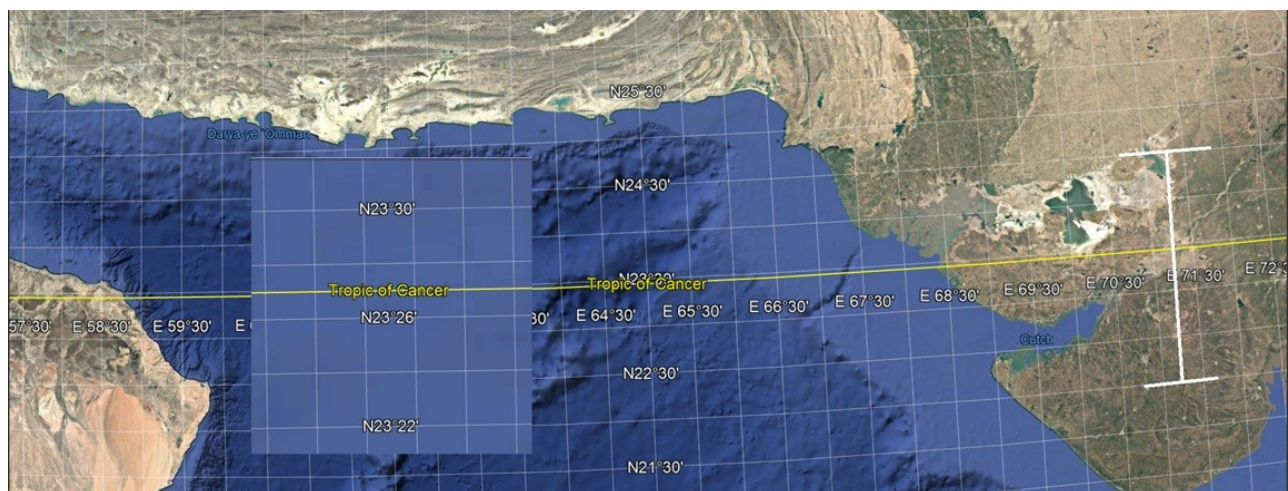
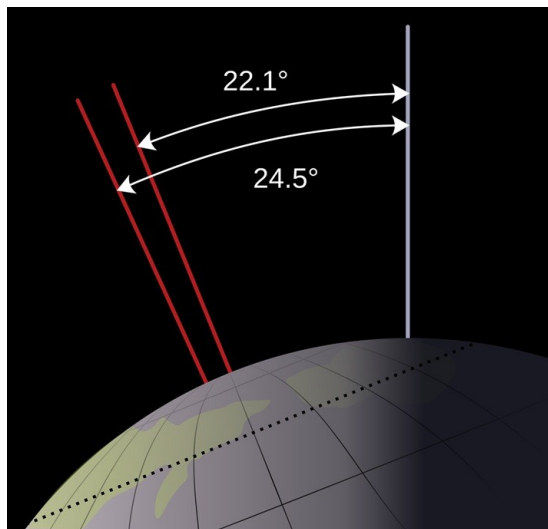


Earth's Axial Tilt

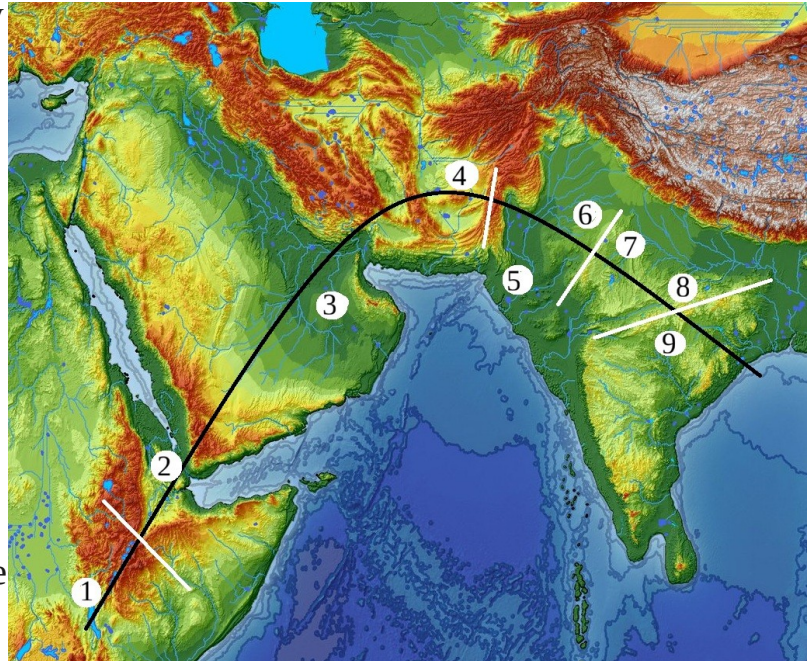
by Potluri Rao In Seattle ©2018 (CC BY 4.0)

As Earth rotates, it wobbles slightly upon its rotational axis, called axial precession. In addition to the precession, the axis itself changes every 41,000 years, resulting in a shift in the direction of Indian monsoon winds. The current axial tilt is called the Tropic of Cancer. The angle of the Earth's axial tilt with respect to the orbital plane varies between 22.10° and 24.50° over a cycle of about 41,000 years. The current tilt is 23.44° , roughly halfway between its extreme values. The current exact value is 23.44° ($23^\circ 26' 22''$), not 23.50° , as is commonly assumed. Ten thousand years ago, it was 24.50° . Ten thousand years from now, it will be 22.10° . Both the current value and the direction it is moving in determine the path of current Indian monsoon winds.



When the axial tilt moves from 22.10° to 24.50°, the Indian monsoon winds move from the Arabian Sea to the Bay of Bengal. When the axial tilt moves from 24.50° to 22.10°, the monsoon winds reverse direction and move from the Bay of Bengal to the Arabian Sea. A giant bulge of water moving from one side of the equator to the other due to gravitational pull caused by the Axial tilt causes the wind reversal. Wind moves in the direction of the bulge. This is a 41,000-year cycle, not to be confused with annual cycles caused by temperature gradients.

Asians (DNA C and F) were highly advanced, logic-based cultures. They voluntarily left Somalia and followed the monsoon winds, the black line. They were rainwater people. They lived only along mountain ridges that were perpendicular to the black line, the white lines that trapped rainwater from the monsoon winds. They were forced to move from one location to the next, the white circles. They were aware that when one side of a ridge was fertile land, the other side was wasteland.



C and F were separated 60,000 years ago. C moved to Sunda. When Sunda was submerged by glacial melt 10,000 years ago, they moved to China.

Hindus (F) moved from (8) to (9) only 4,000 years ago. When the winds blew west to east, the area to the east of the Satpura Ridge (9) was a vast wasteland. Currently, the monsoon winds blow from the Bay of Bengal to the Arabian Sea, and (9) is fertile land. All the people who lived in (8) for 20,000 years moved to (9) when (8) turned into a wasteland 4,000 years ago.

Hindus lived in (6) 60,000 years ago, in (7) 40,000 years ago, in (8) 20,000 years ago, and in (9) 4,000 years ago. It was an entirely different landscape before the glacial melt. Much of the Hindu land is now either submerged or turned into wasteland.

A study of Axial tilt and the resulting long-term climate changes revealed a fascinating story of the now-lost human history.