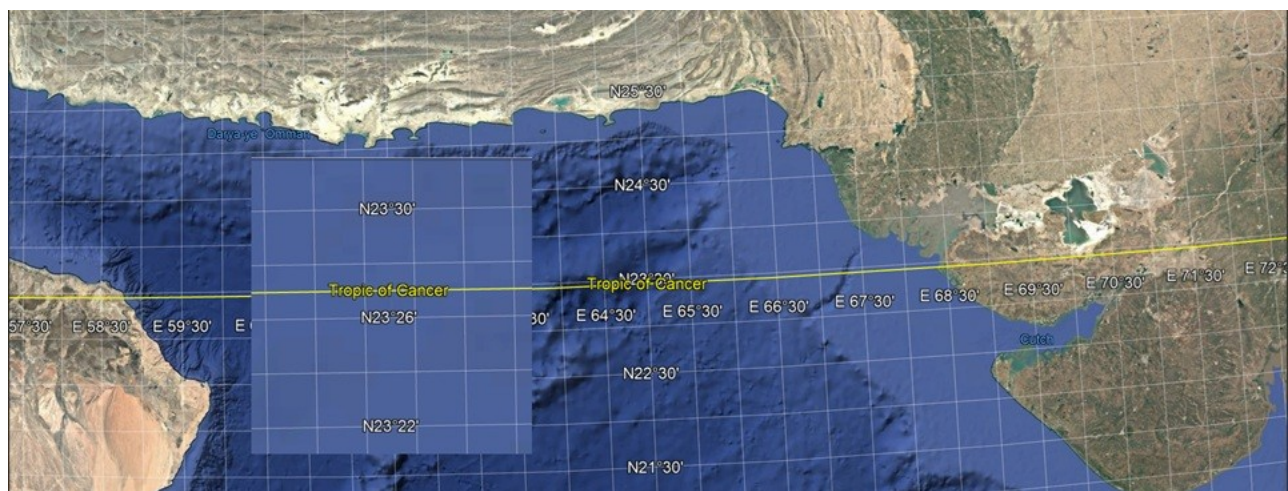
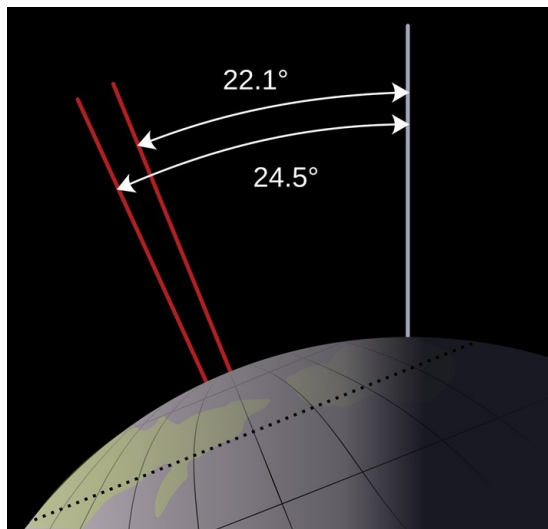


## Earth's Axial Precession

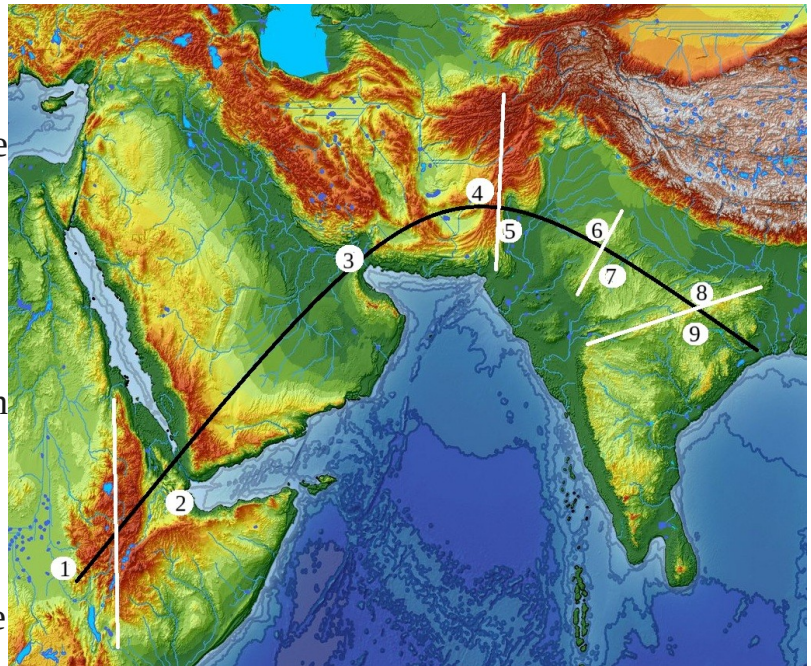
by Potluri Rao In Seattle ©2018 (CC BY 4.0)

As Earth rotates, it wobbles slightly upon its rotational axis called the Axial Precession. In addition to the Precession, the axis itself changes every 41,000 years resulting in a shift in direction of Indian monsoon winds. The current axial tilt is called Tropic of Cancer. The angle of the Earth's axial tilt with respect to the orbital plane varies between  $22.1^\circ$  and  $24.5^\circ$ , over a cycle of about 41,000 years. The current tilt is  $23.44^\circ$ , roughly halfway between its extreme values. The current value of Tropic of Cancer is  $23.44^\circ$ , not  $23.50^\circ$ . Ten thousand years ago it was  $24.50^\circ$ .



When the axial tilt moves from  $22.10^\circ$  to  $24.50^\circ$ , the Indian monsoon winds move from the Arabian Sea to Bay of Bengal. When the axial tilt moves from  $24.50^\circ$  to  $22.10^\circ$  the monsoon winds reverse direction and move from the Bay of Bengal to Arabian Sea. The geology of the mountains acts like the mechanics of a pump to make the winds follow the direction of the piston. Every 20,000 years, the Indian monsoon winds reverse direction.

Hindu (DNA F) were highly advanced logic based cultures. They voluntarily left Ethiopia 100,000 years ago 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 tapped rainwater from the monsoon winds. They were forced to move from one location to the next, the white circles, every 20,000 years. They were aware that when one side of a ridge was fertile lands, the other side was wastelands. The Persian Gulf (3) always had rainwater no matter which way the winds blew. It was the base camp. Hindu lived in (3) from 80,000 BCE to 10,000 BCE.



Hindu 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 was a vast wasteland.