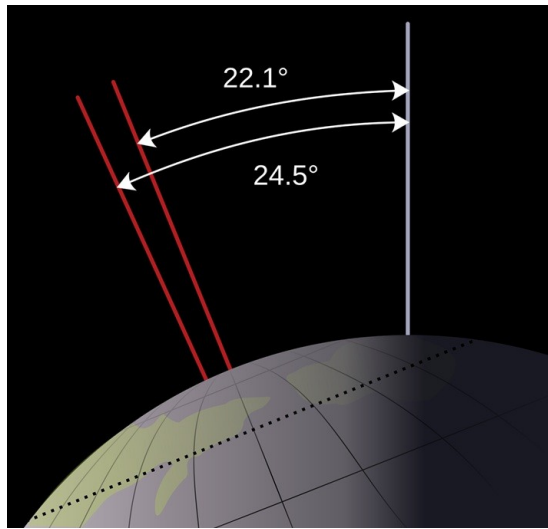


## Earth's Axial Precession

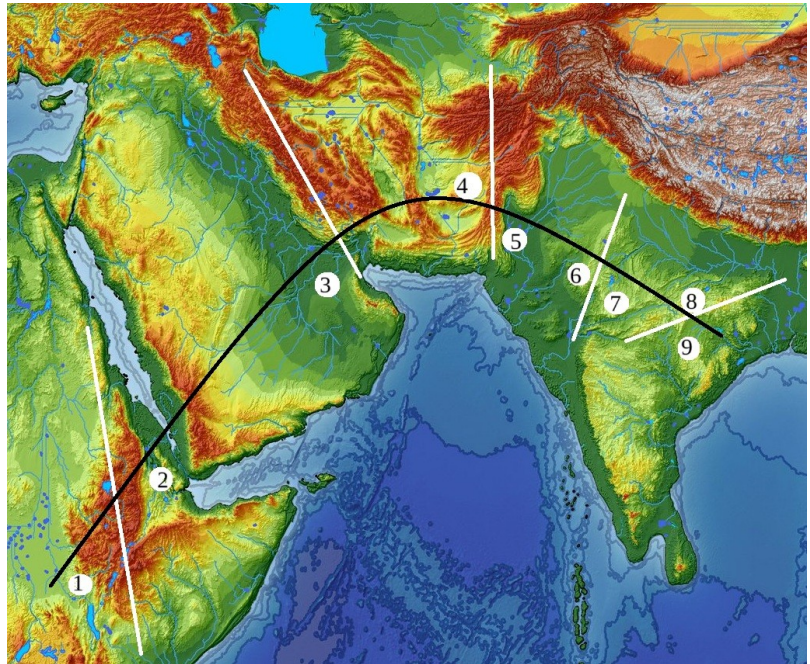
by Potluri Rao In Seattle ©2018 (CC BY 4.0)

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  $23.50^\circ$ . It was  $24.50^\circ$  10,000 years ago.



When the axial tilt moves from  $22.10^\circ$  to  $24.50^\circ$ , the 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 wind follow the direction of a piston. It was that way for millions of years.

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 run north to south, the white lines, that tap 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 is fertile lands, the other side is wastelands because of the rain shadow. They moved over from one side to the other. The map was computer generated to reflect the climate and landscape at the time of Hindu migration.



Hindu moved to location (9), from (8), only 4,000 years ago. The area to the east of the Satpura Ridge (9) was a vast wasteland when the winds blew west to east. It turned into fertile lands when the winds blew from east to west. The area to the west of the Satpura (8) turned from fertile lands to wastelands because of the rain shadow. The same thing happened 40,000 years ago when Hindu moved across the Aravalli Range from (6) to (7).

Along the path of the monsoon winds, every 20,000 years fertile lands changed to wastelands, and wastelands changed to fertile lands, for millions of years.