

## From the Planners' Bookshelf...

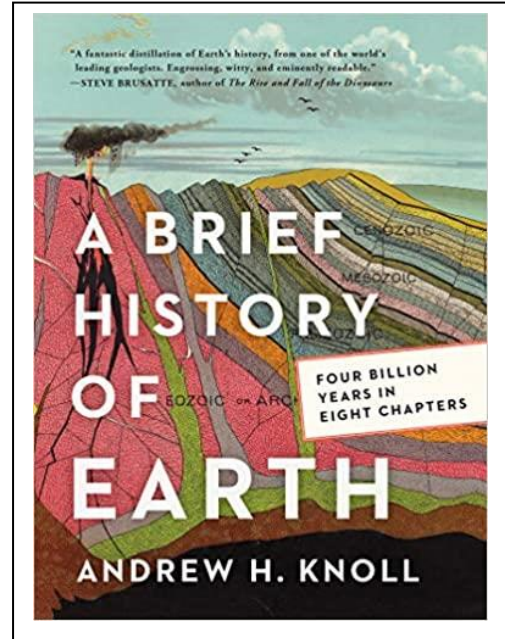
# A Brief History of Earth: Four Billion Years in Eight Chapters.

Andrew H. Knoll, HarperCollins, NY, 2021

From Amazon... <https://www.amazon.com/Brief-History-Earth-Billion-Chapters/dp/0062853910>

How well do you know the ground beneath your feet? Odds are, where you're standing was once cooking under a roiling sea of lava, crushed by a towering sheet of ice, rocked by a nearby meteor strike, or perhaps choked by poison gases, drowned beneath ocean, perched atop a mountain range, or roamed by fearsome monsters. Probably most or even all of the above.

The story of our home planet and the organisms spread across its surface is far more spectacular than any Hollywood blockbuster, filled with enough plot twists to rival a bestselling thriller. But only recently have we begun to piece together the whole mystery into a coherent narrative. Drawing on his decades of field research and up-to-the-minute understanding of the latest science, renowned geologist Andrew H. Knoll delivers a rigorous yet accessible biography of Earth, charting our home planet's epic 4.6 billion-year story. Placing twenty first-century climate change in deep context, *A Brief History of Earth* is an indispensable look at where we've been and where we're going.



**Features original illustrations depicting Earth history and nearly 50 figures (maps, tables, photographs, graphs).**

### CT.org notes re: Timeframes.

Formation of Earth	4.6 bya
A rocky planet bathed by water	4.4 bya
Subduction, some plate movement	3.8-3.6 bya
Tectonic Plates moving	2.5 bya
Connected	
Gondwana [southern hemisphere]	180 mya
Pangaea [northern hemisphere]	180 mya
Biologic planet	3.5 bya [life began, maybe 4 bya, p83]
Jack Hills and Dales Gorge, Australia	
O <sub>2</sub> emerged, big planetary change	2.4 bya [life without oxygen until 2.4 bya]
Why? O <sub>2</sub> is a function of life, p101	Great Oxygenation Event – GOE
Life based O <sub>2</sub>	Generation exceeded processes of removal
The Ediacaran Period	635 - 541 mya
Mistaken Point, Newfoundland	565 mya
Snowball Earth	650 mya, at the latest
The Cambrian [Explosion ] Period	541-485 mya