

# **Simplified Tectonic Map of the World, Including Major Basins\***

**Compiled by Bill St. John<sup>1</sup>**

Search and Discovery Article #30525 (2017)\*\*

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\*Map received November 26, 2014, accepted February 4, 2016.

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<sup>1</sup>Independent/Consultant, Kerrville, TX, deceased October 26, 2015. Please refer to Texas Geosciences 2015 Newsletter for a summary of Dr. St. John's career (<https://www.jsg.utexas.edu/news/2015/12/bill-st-john-july-27-1932-oct-26-2015/>; website accessed October 2, 2017).

## **Editorial Comments**

This compilation by Bill St. John followed his classic "Sedimentary Provinces of the World," published by AAPG in 1984. A digital version of that map is available from AAPG. This tectonic map was submitted by Dr. St. John to Datapages as a preliminary map, awaiting funding for conversion into a digital version using Arc GIS. After considerable time, change in financial climate, and reduction in AAPG personnel, the preliminary map is posted here, in order to provide viewers, without further delay, with yet another outstanding work by St. John.

References are given with the map, as is the Explanation. The latter is also provided separately at a larger scale.

Although there are a number of similar compilations, the seminal work by Bally et al. (2012) must head the list.

## **References Cited**

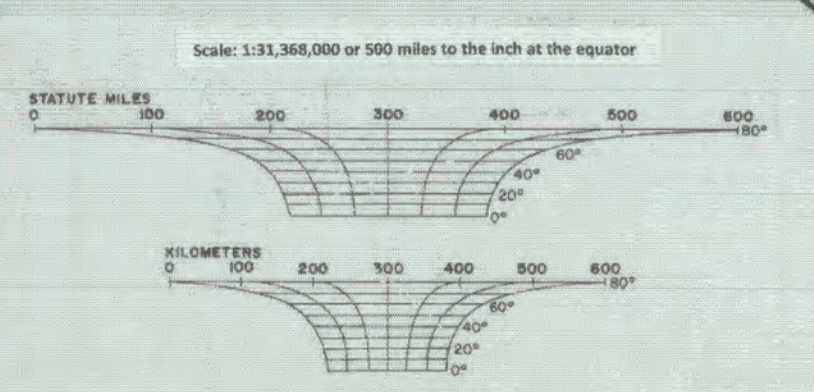
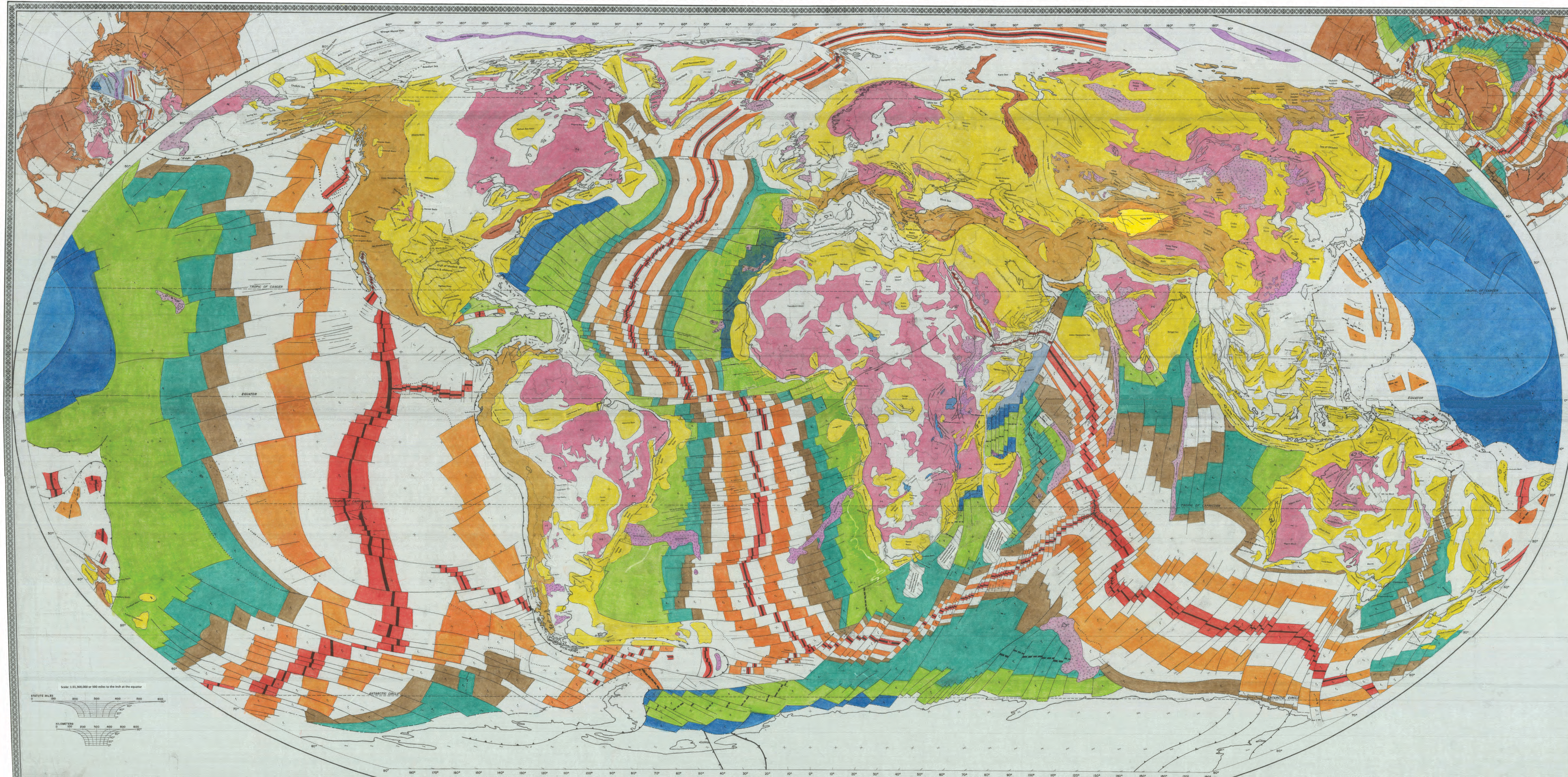
Bally, A.W., D.G. Roberts, D. Sawyer, and A. Sinkewich, 2012, Tectonic and basin maps of the world, *in* D.G. Roberts and A.W. Bally, editors, *Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps*, p. 973-1151.

St. John, B., 1984, *Sedimentary Provinces of the World* ( map) and booklet (*Sedimentary Provinces of the World—Hydrocarbon Provinces and Nonproductive*, B. St. John, A.W. Bally, and H.D. Klemme (booklet): AAPG. For digital version, website accessed October 2, 2017, <http://store.aapg.org/detail.aspx?id=DD0038>.

## **Acknowledgments**

Sandra PaskVan and Jacqueline Berryman scanned the highly oversized map, along with the Explanation and thereby were instrumental in this online presentation of the map.





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- Basins:**
- Tectonic Features:**
- Other Features:**

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- 3. **Alpine-Himalayan Extensional:** Yellow
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# Simplified Tectonic Map of the World Including Major Sedimentary Basins

Compiled  
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Bill St. John

2013

## Explanation

### Ages

Quaternary Holocene

T<sub>s</sub> Pliocene

T<sub>4</sub> Miocene

T<sub>3</sub> Oligocene

T<sub>2</sub> Eocene

T<sub>1</sub> Paleocene

K<sub>u</sub> Late/Upper Cretaceous

K<sub>i</sub> Early/Middle Cretaceous

J<sub>u</sub> Late Jurassic

J<sub>i</sub> Early/Middle Jurassic

P.C. Precambrian

### Provinces

Sedimentary basins

Volcanic deposits

Non-sedimentary basement  
areas, platforms and shields,  
foldbelts and uplifts,

Non-sedimentary zones of  
P.C. igneous platform rock,  
volcanic, intrusive, and highly  
folded rock of different ages  
including: (1) western North  
America, Central and South  
America, (2) parts of USSR/  
Mongolia/China, and (3)  
eastern Europe in area  
bordered by thrust faults.

### Tectonic features

Active spreading center

Abandoned spreading center

Subduction zone

Thrust fault

Transform fault

Strike-slip fault

Normal fault

Approximate contact  
between continental/  
oceanic crusts.

Discontinuities in spreading  
including ridge jumps, triple  
junctions, propagating rifts  
and breakup anomalies.

