

SIOG239-20 Worksheet

Date of class: 10/27

Group number and members:

Title of paper: Twenty Years of Subduction Zone Science: *Subduction Top to Bottom 2 (ST2B-2)*

Before getting started on this paper – What did you know about subduction zones? How deep are the deepest earthquakes? What is different about these earthquakes than the more ubiquitous shallower earthquakes?

Abstract (1 – 4 bullet points or sentences) what is the main purpose of the paper?

Intro:

Who introduced the concept of subduction, and when?

Do you know when plate tectonics was accepted as a viable theory? If not, consult Wikipedia and discuss.

The Wikipedia site on plate tectonics lists two driving forces, basal drag and slab suction. Do you agree with that? If not, what's missing?

What was so special about SUBCON? What's 'Big Purple'?

What are some of the along-strike variations in subduction zones?

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What are the key components of SZ4D?

WHAT HAVE WE LEARNED IN PAST 20 YEARS?

The authors list 16 advances in subduction zone research. What are your top five advances?

Do you find any of the 16 advances controversial or incomplete? What is missing?

THE MAKEUP OF ST2B-2

What is different with publications in Geosphere compared to more traditional venues?

Authors criticize some of the limitations of publishing in 'Big Purple'. Can you identify some points where Geosphere may NOT pose vast improvements?

Any further comments?