

Age-Depth Profiles for Pacific DSDP and ODP Drillsites

Mitchell Lyle

Center for Geophysical Investigation of the Shallow Subsurface (CGISS)
Boise State University, Boise, Idaho 83725

BSU CGISS Technical Report 2002-06
Oct 200

Age-Depth Profiles for Pacific DSDP and ODP Drillsites

INTRODUCTION

This technical report contains age-depth profiles in support of the paper I submitted to the journal *Paleoceanography* in Feb 2002, and which is in review as of this writing. They show the stratigraphic information I used and the age-depth curves I constructed for each of the DSDP and ODP drillsites included in the paper. I attempted to construct these profiles using a minimum astonishment principle, i.e. smooth polynomial fits where possible and lower order fits where stratigraphic data are scant. The primary source of stratigraphic information were the Initial Reports volumes for both DSDP and ODP, and the data used here are listed in Table . If I knew of the existence of other stratigraphic synthesis (e.g. legs 130, 138, and 167), I included that data or used that as a primary source of the age model. See the *Paleoceanography* paper (Lyle, Neogene carbonate burial in the Pacific Ocean) for more information about the stratigraphy, especially Tables 1 and 2.

DSDP/ODP Drillsites in the Pacific for Paleoclimatology

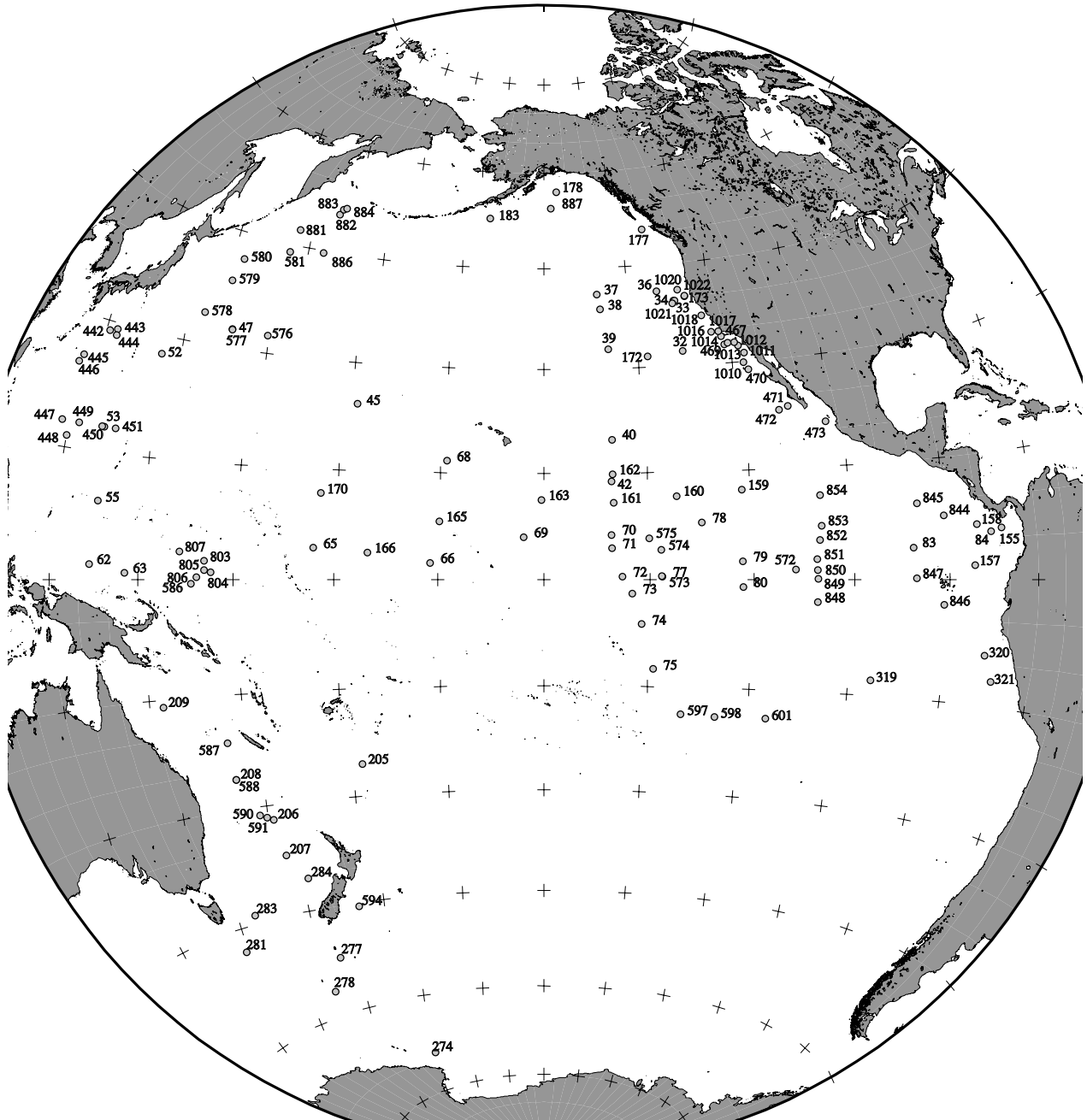
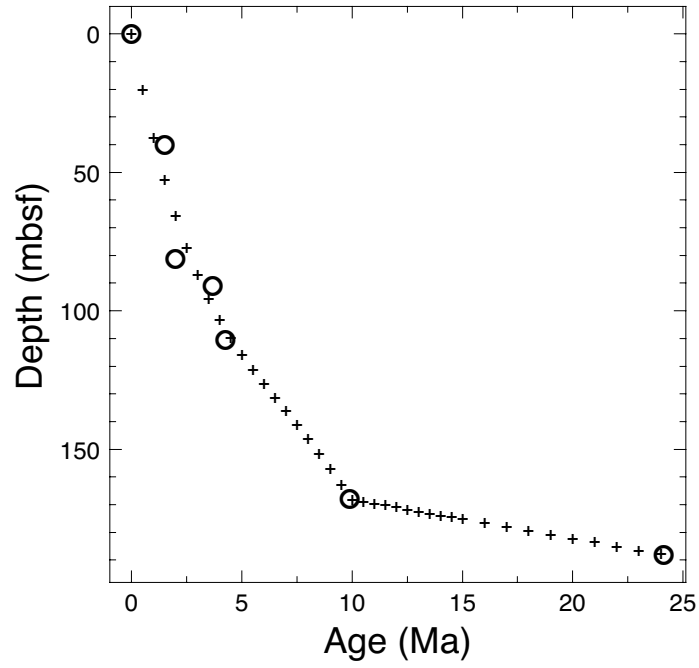


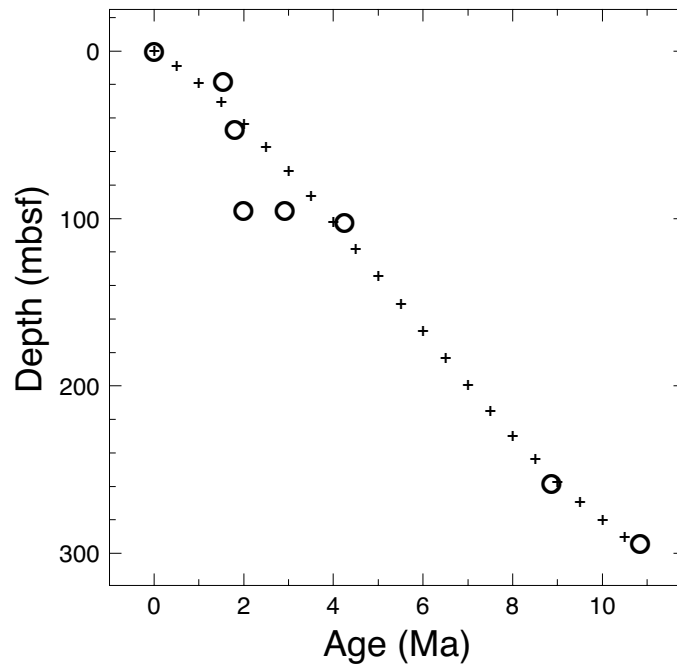
Figure 1: DSDP and ODP drillsites used in the compilation for Neogene carbonate burial in the Pacific Ocean. All drillsites with suitable sedimentary records were to be included through ODP Leg 167.

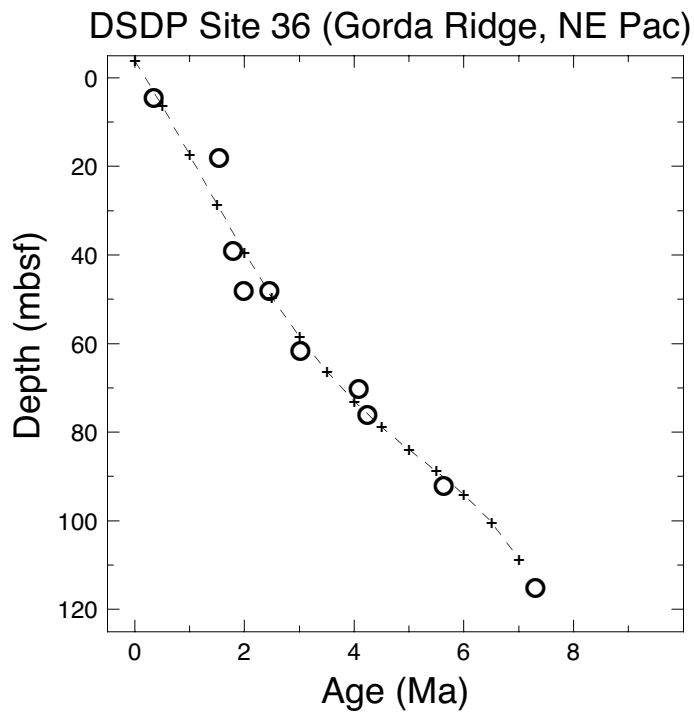
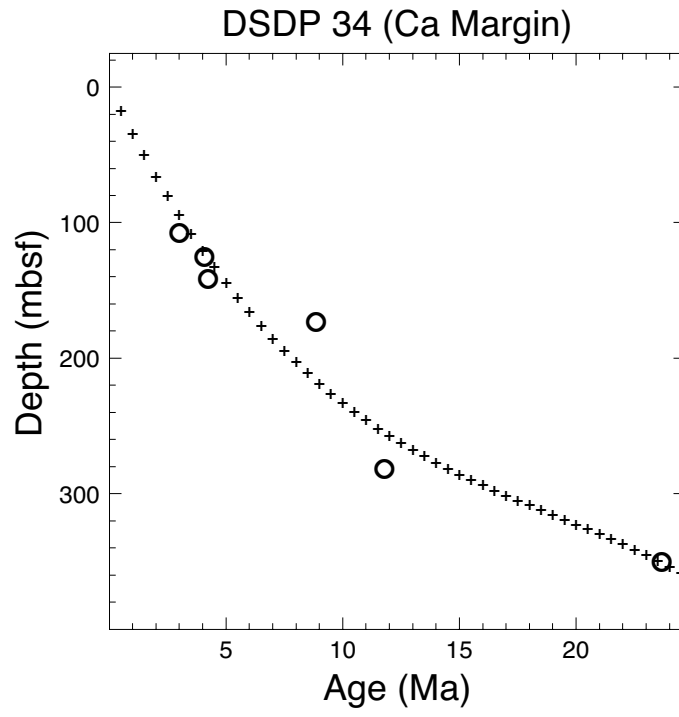
DSDP Leg 5 Drillsites

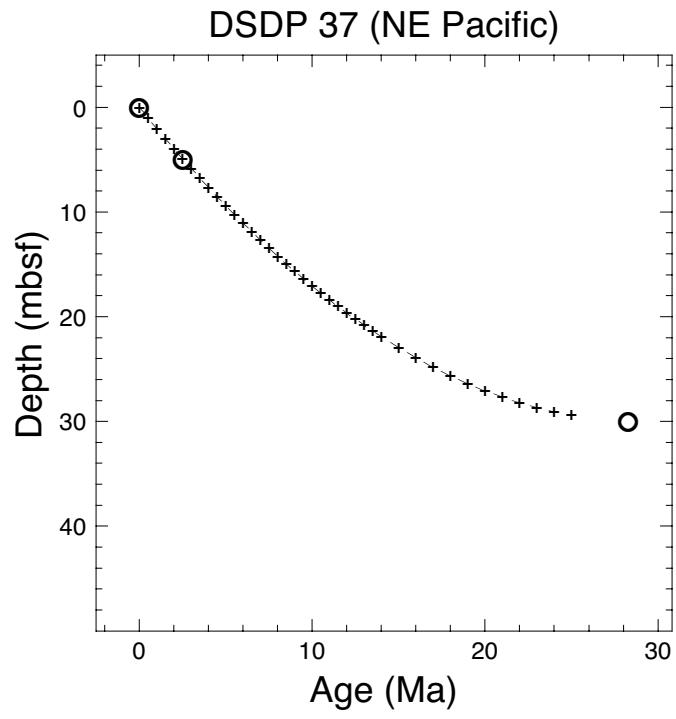
DSDP Site 32 (NE Pacific)



DSDP Site 33 (NE Pacific)

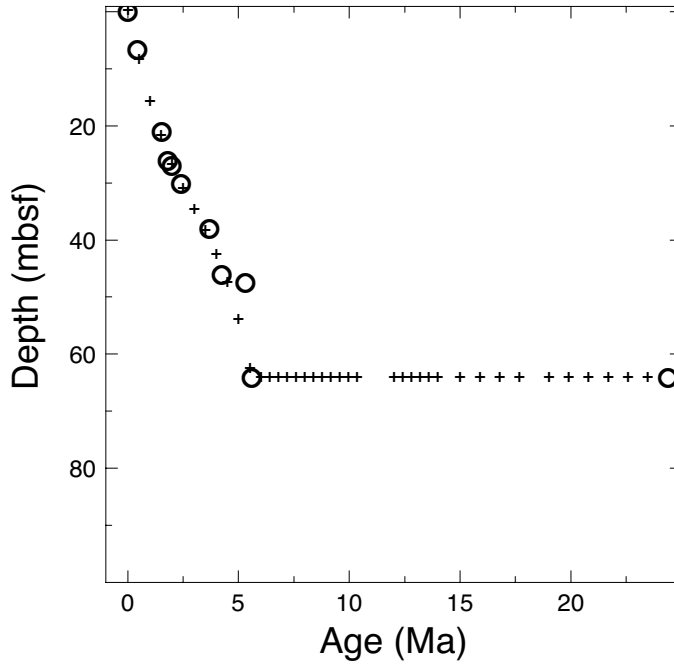




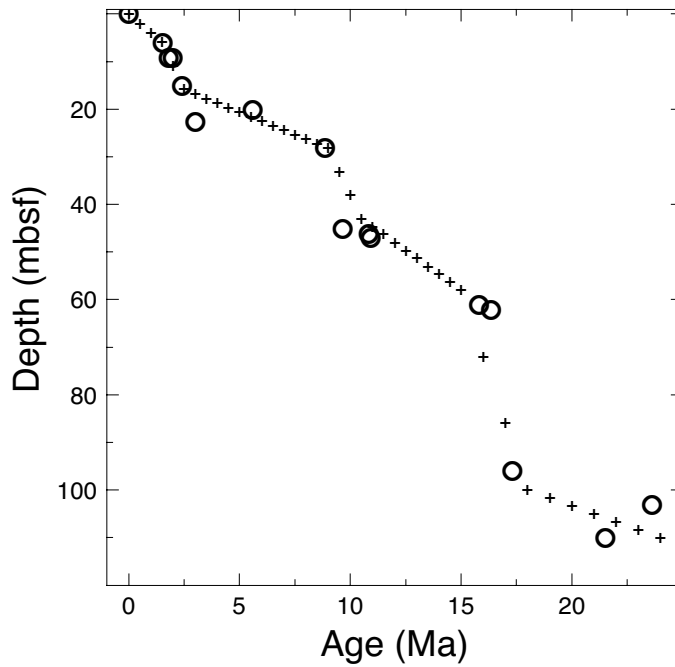


DSDP Leg 6 Drillsites

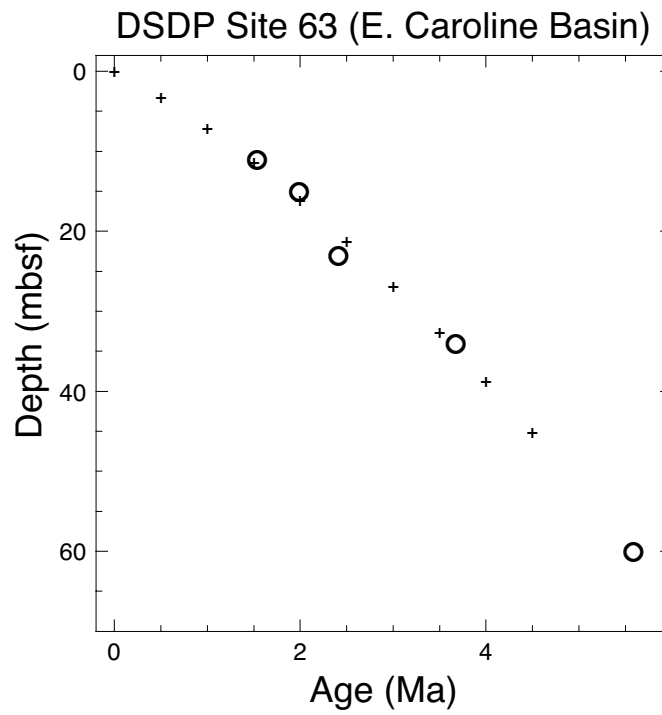
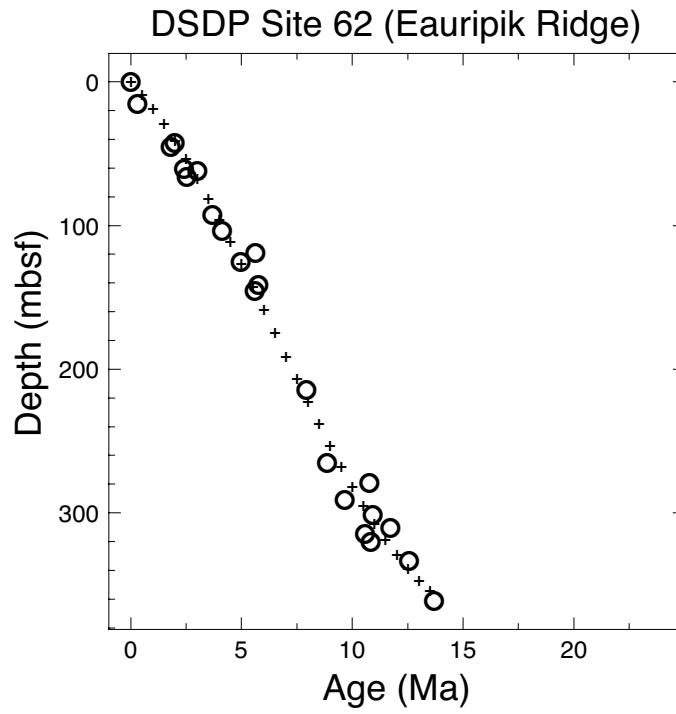
DSDP Site 47 (Shatsky Rise)

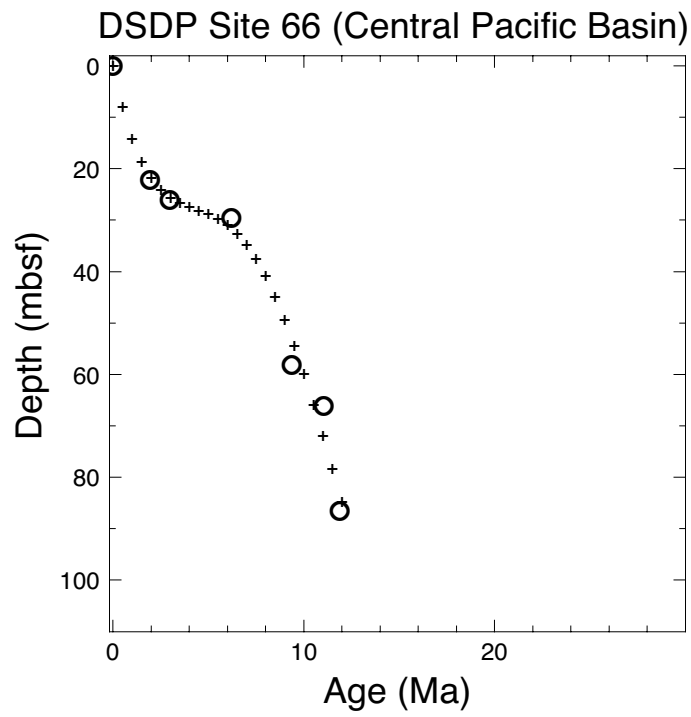
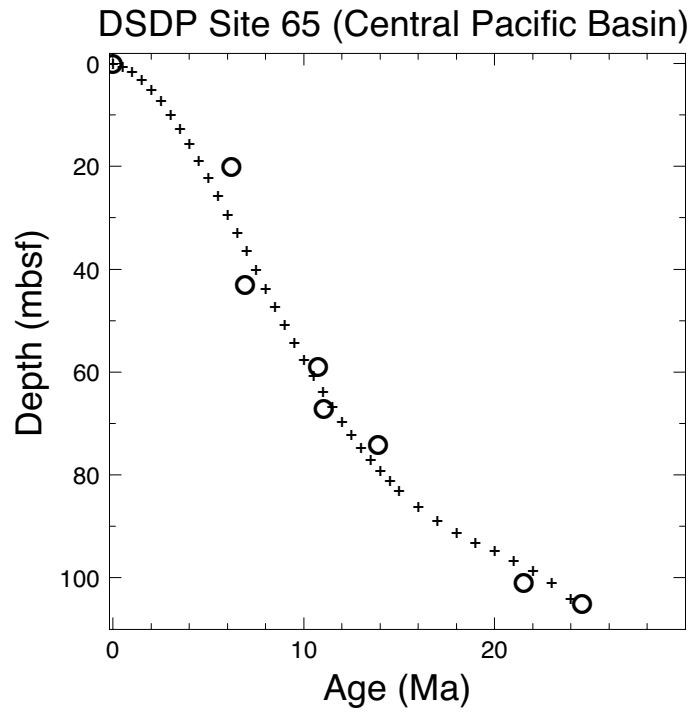


DSDP Site 55 (Caroline Ridge)

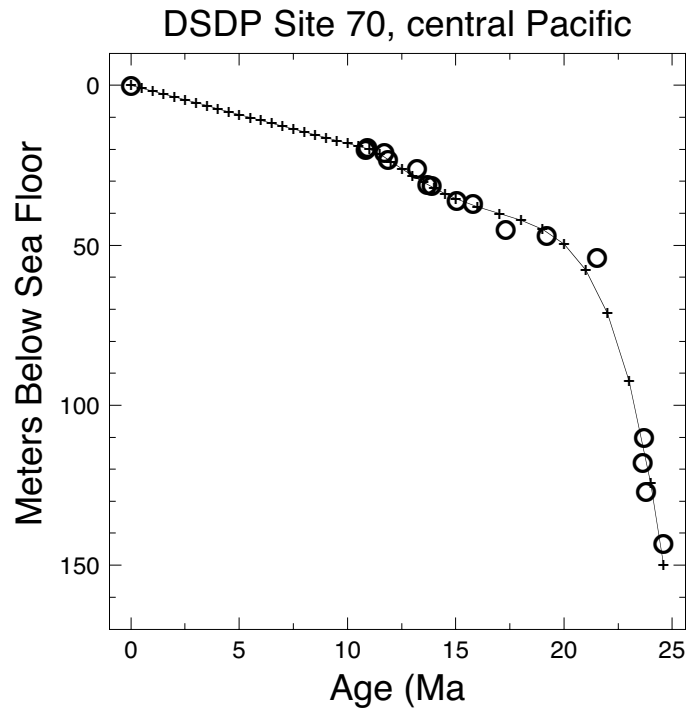
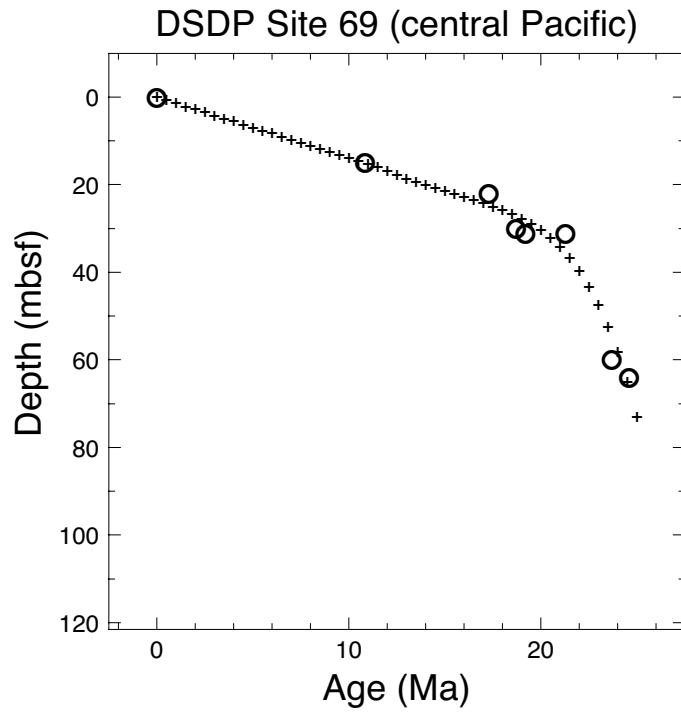


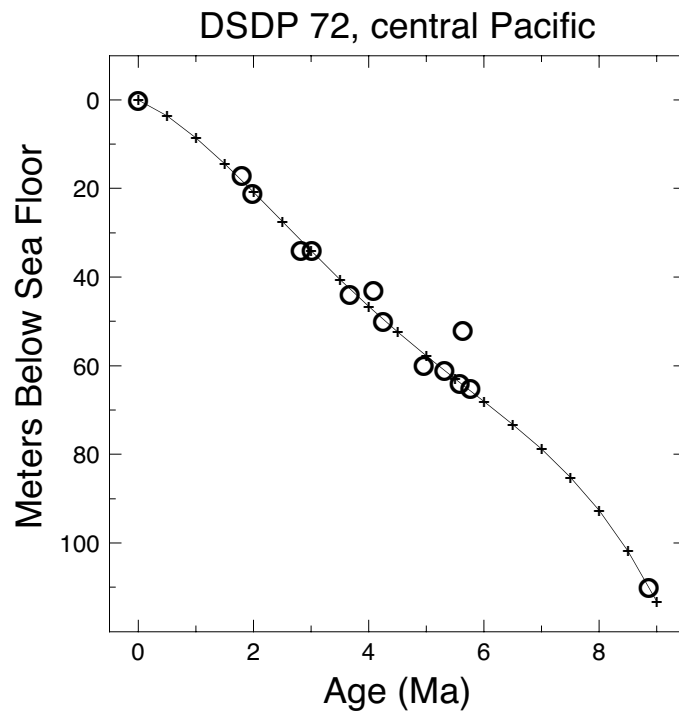
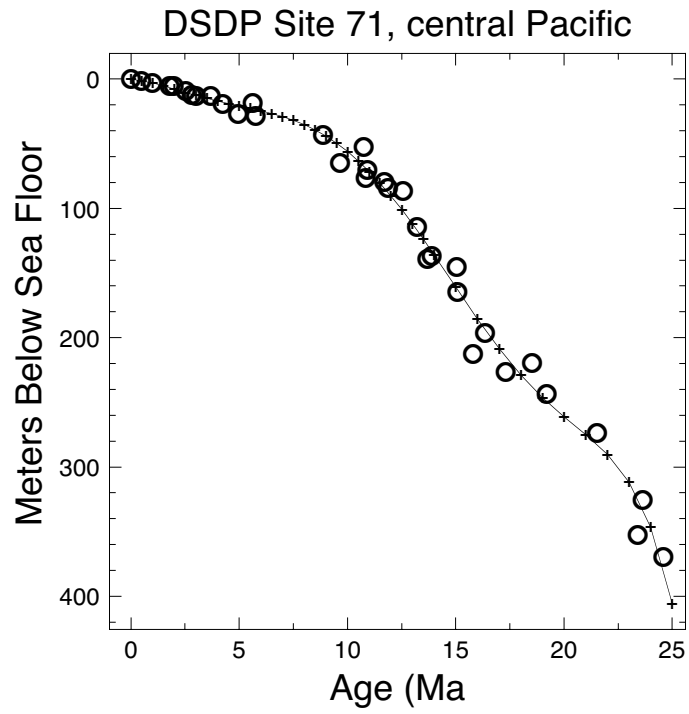
DSDP Leg 7 Drillsites



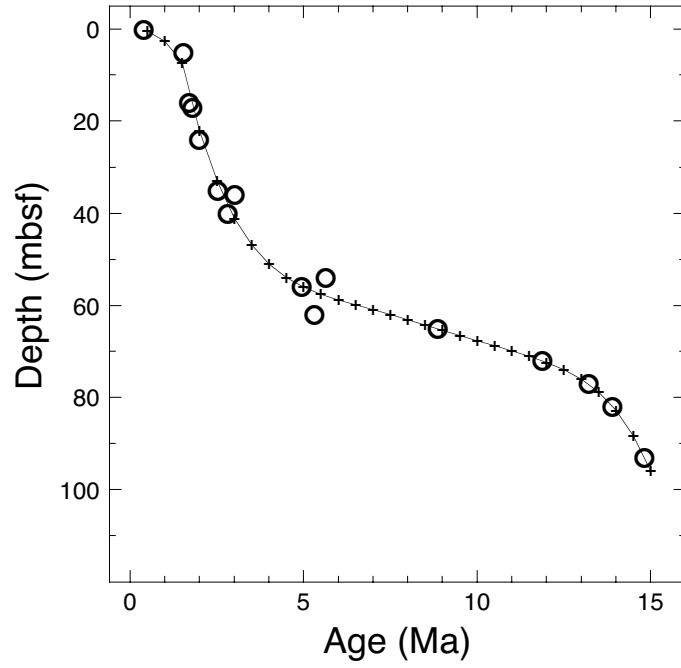


DSDP Leg 8 Drillsites

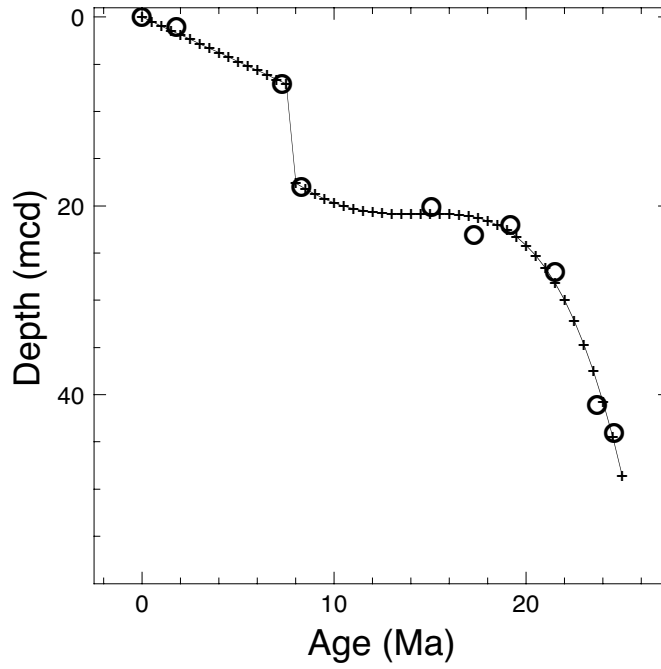


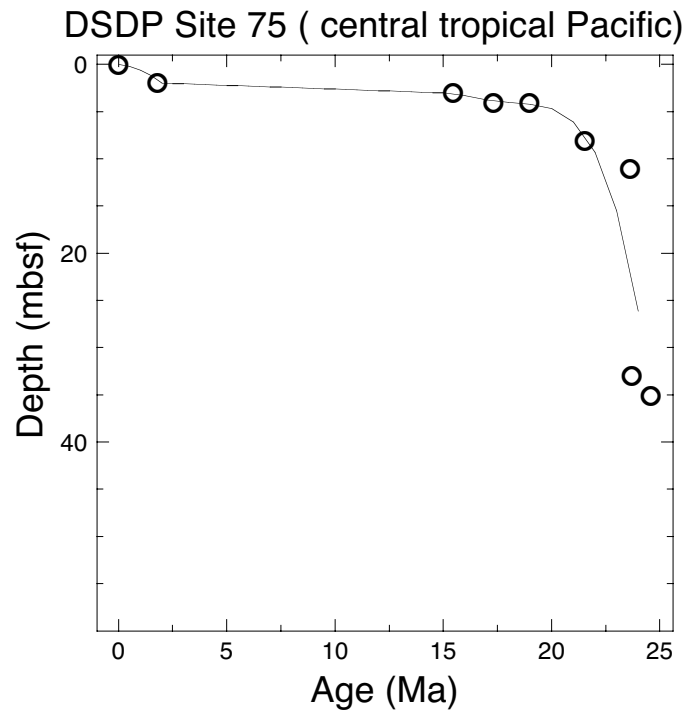


DSDP Site 73 (Central equatorial Pacific)

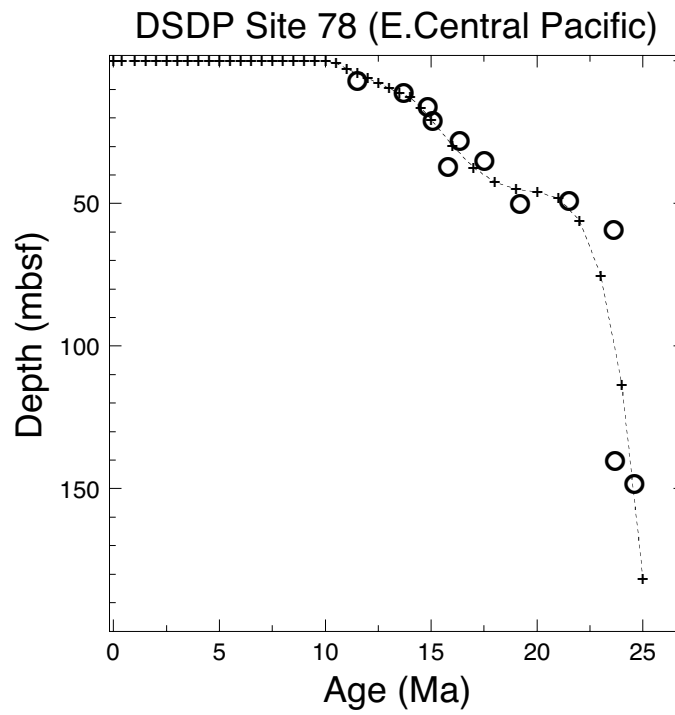
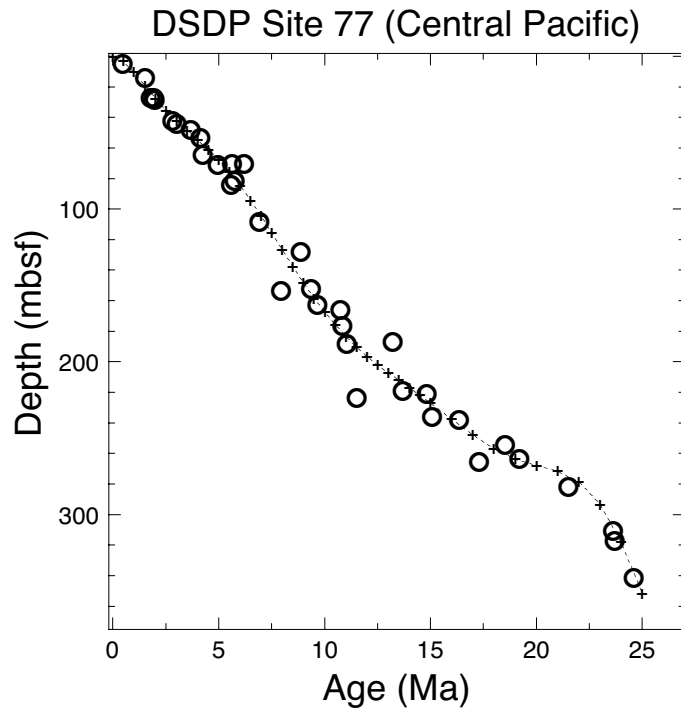


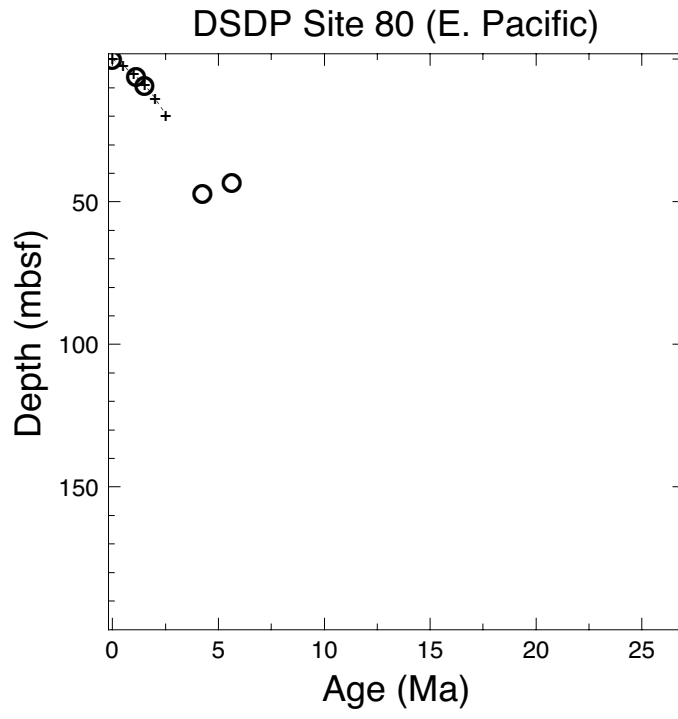
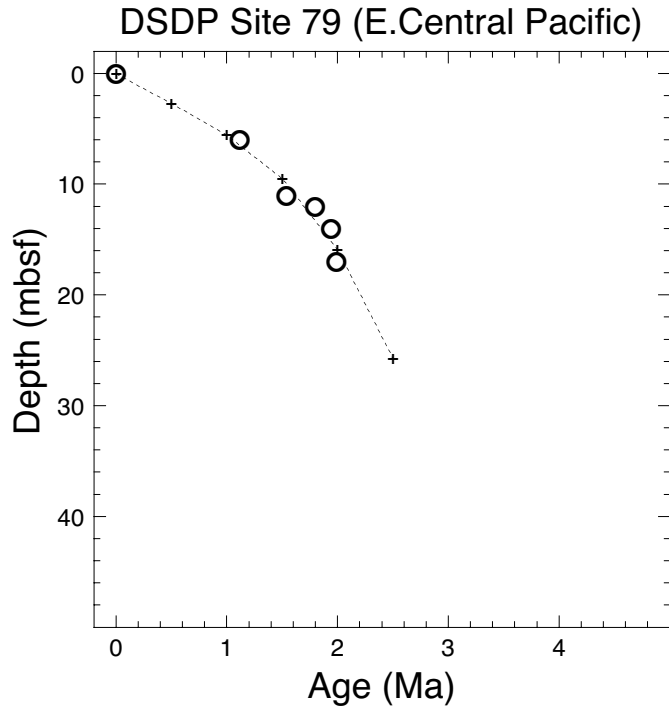
DSDP Site 74 (Central Pacific)

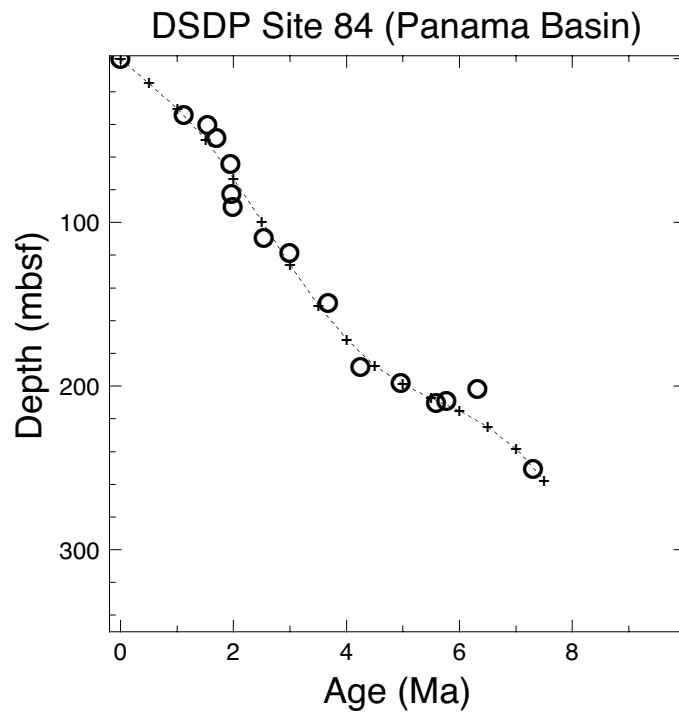
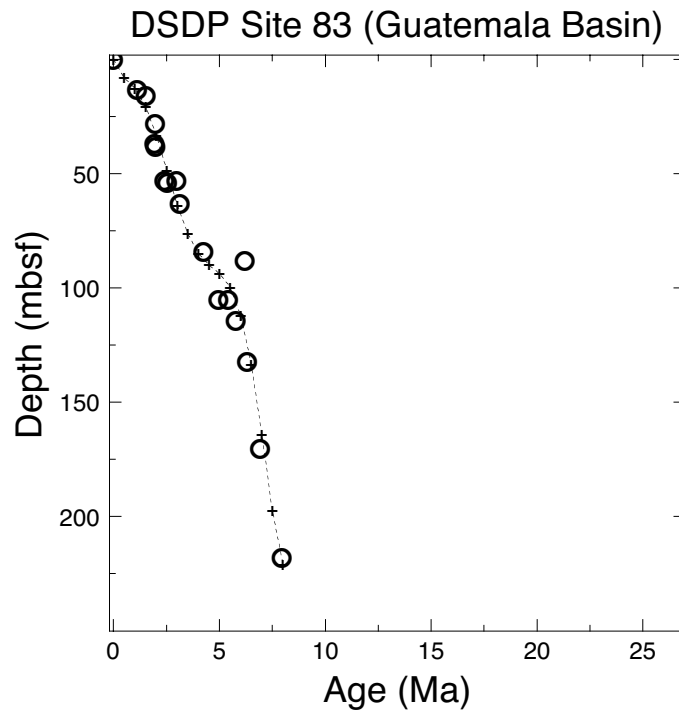




DSDP Leg 9 Drillsites

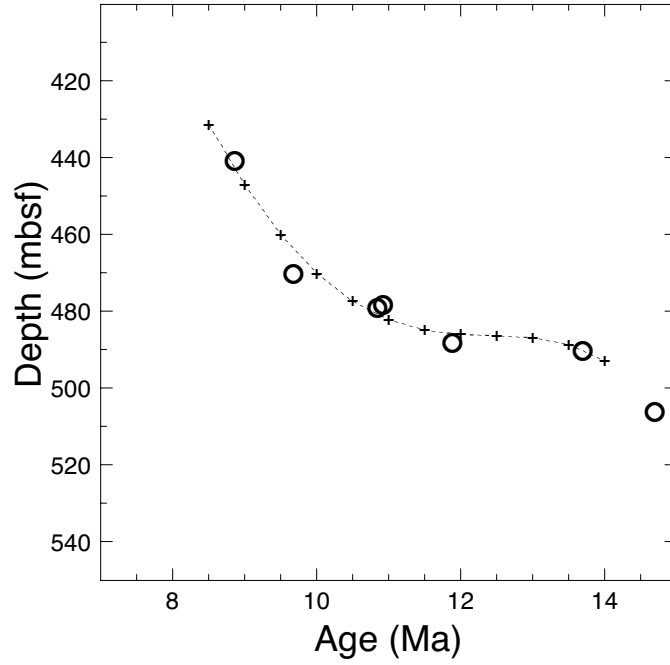




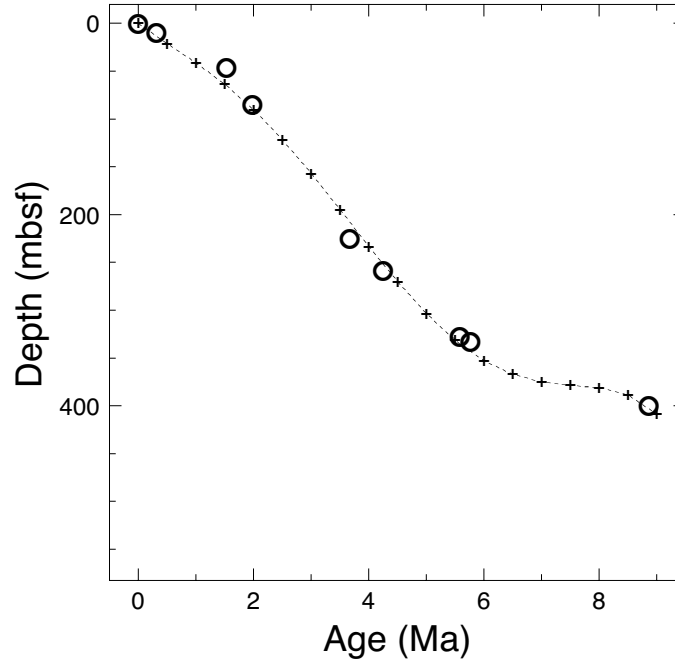


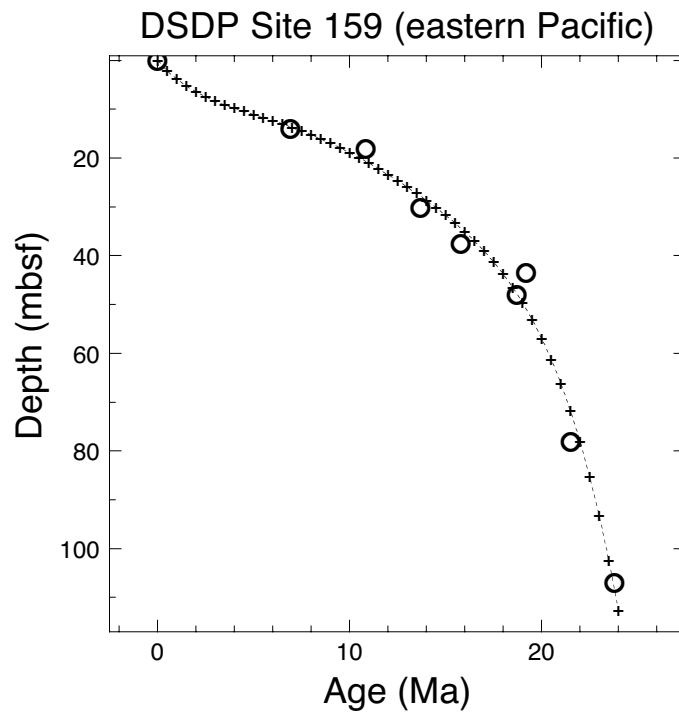
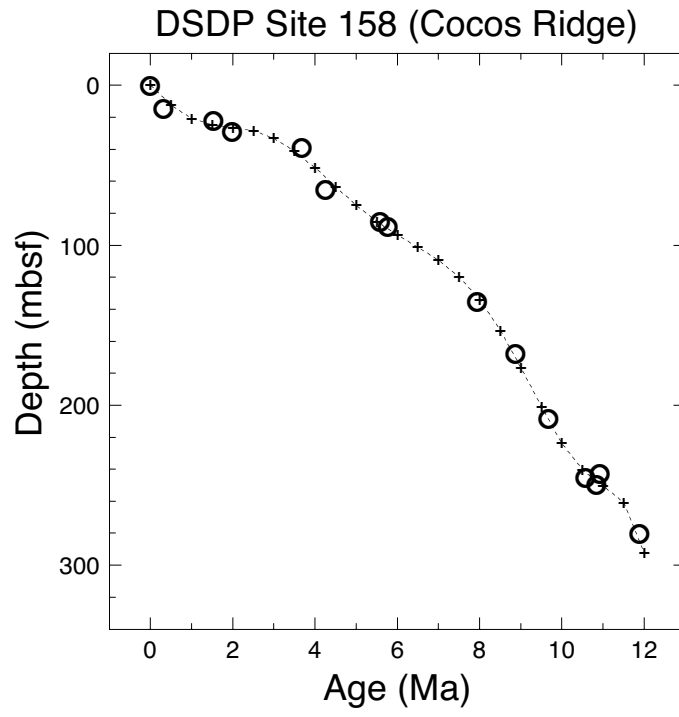
DSDP Leg 16 Drillsites

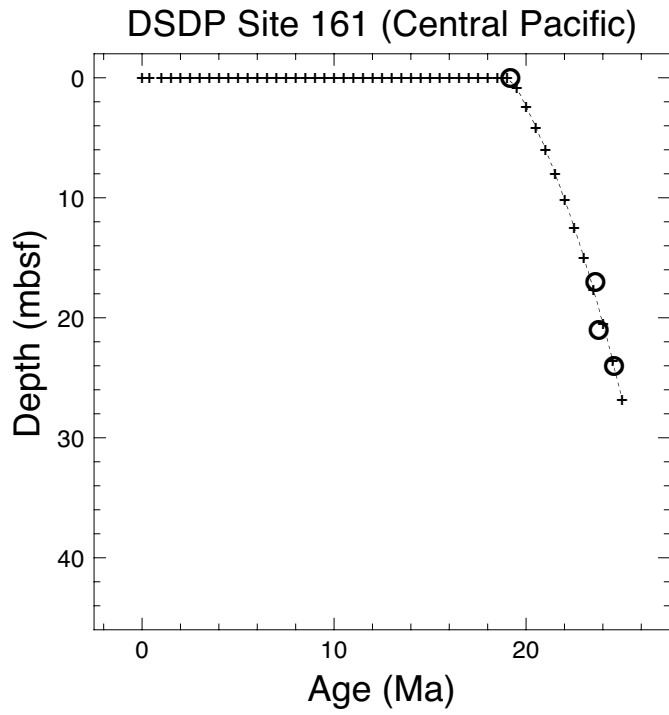
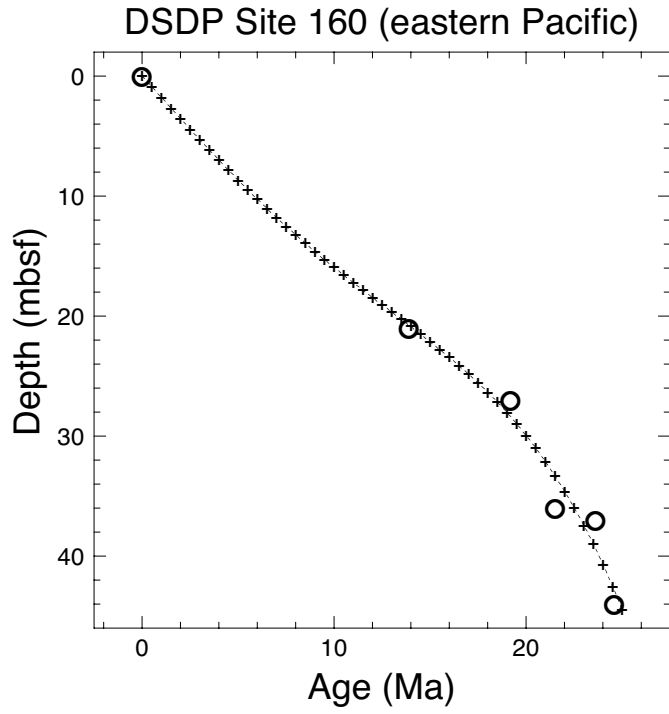
DSDP Site 155 (Panama Basin)



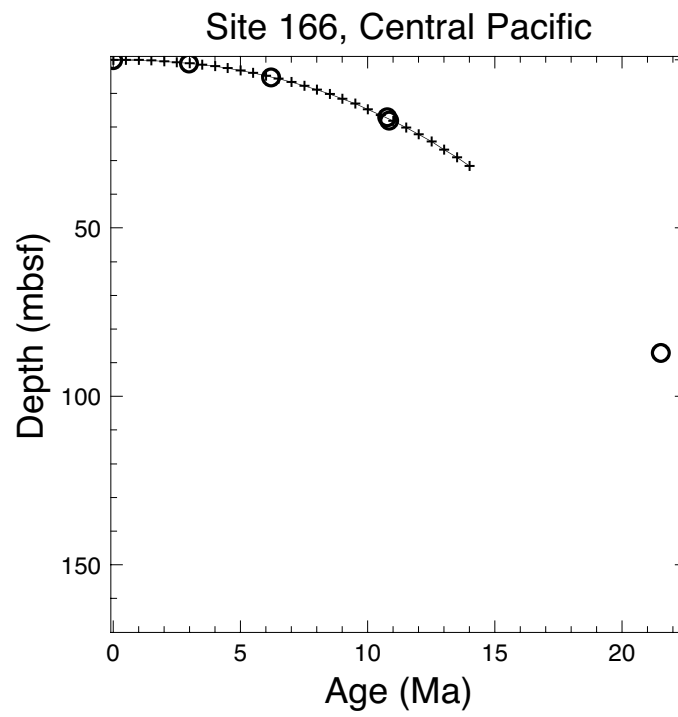
DSDP Site 157 (Carnegie Ridge)



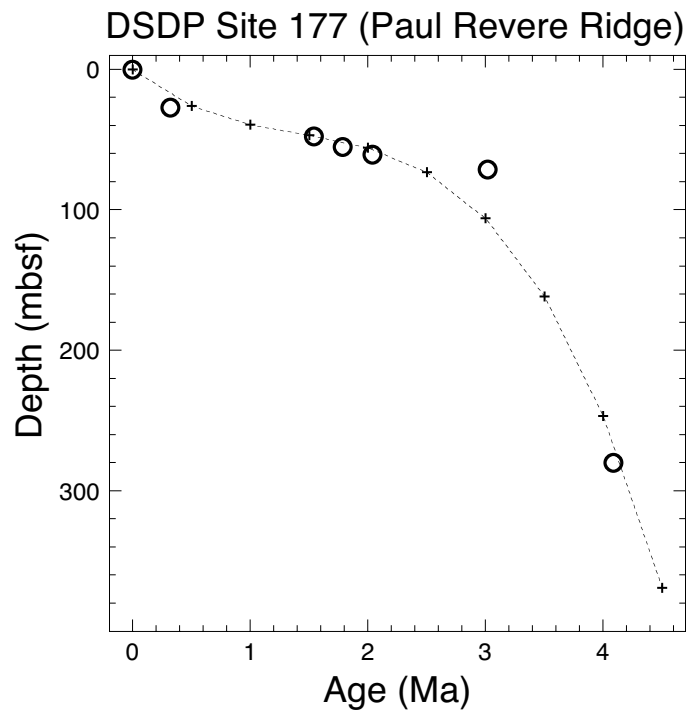
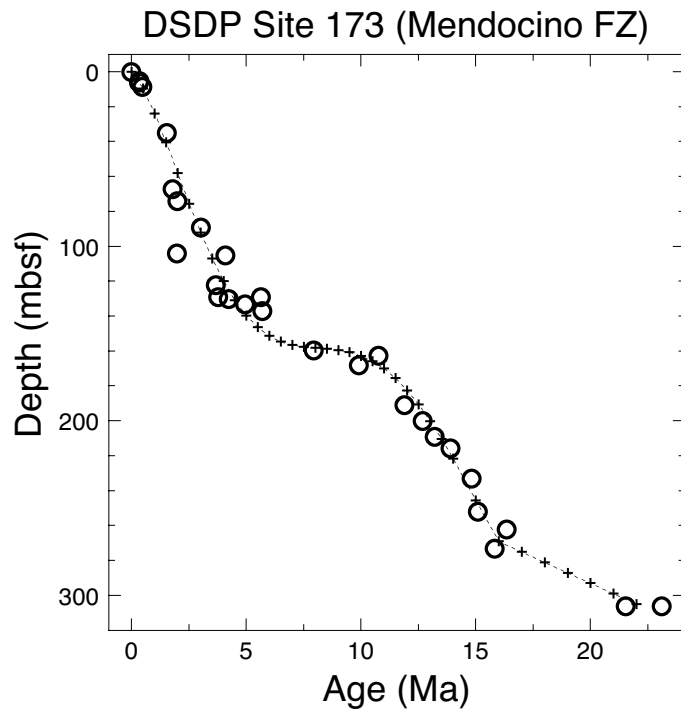


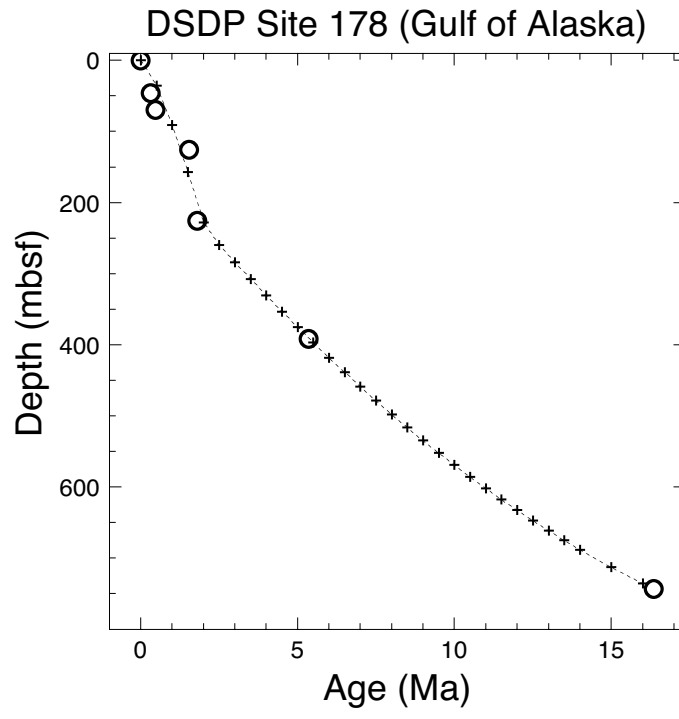


DSDP Leg 17 Drillsites

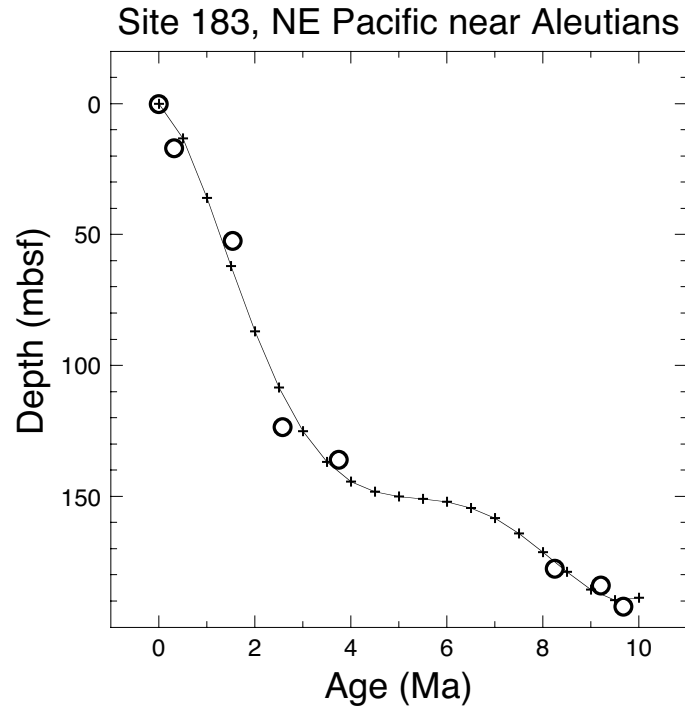


DSDP Leg 18 Drillsites

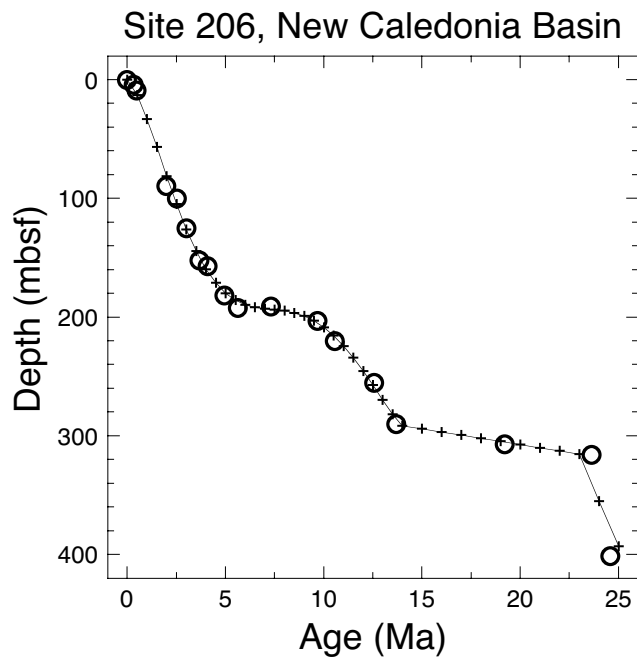
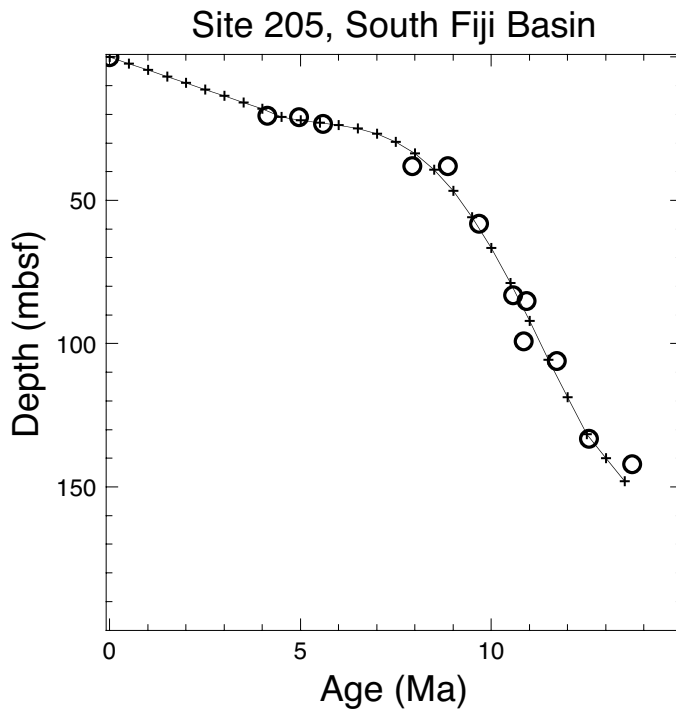


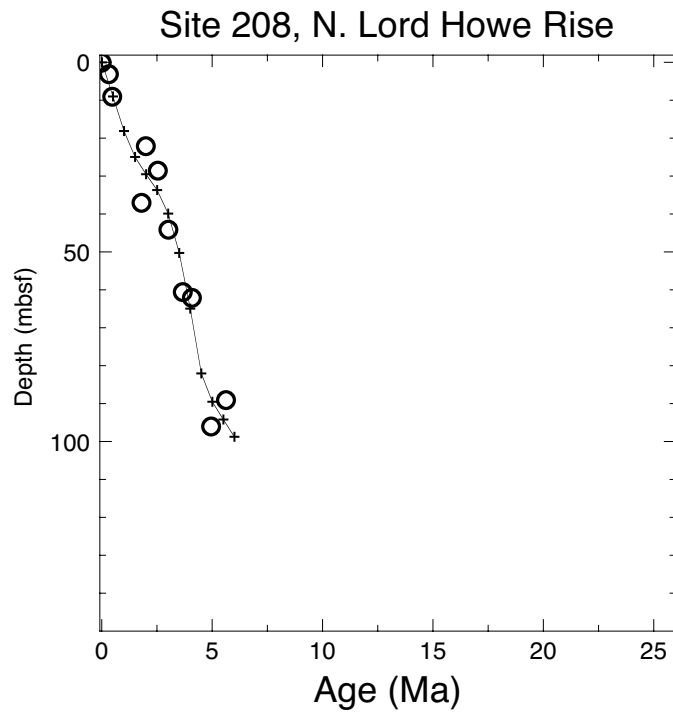
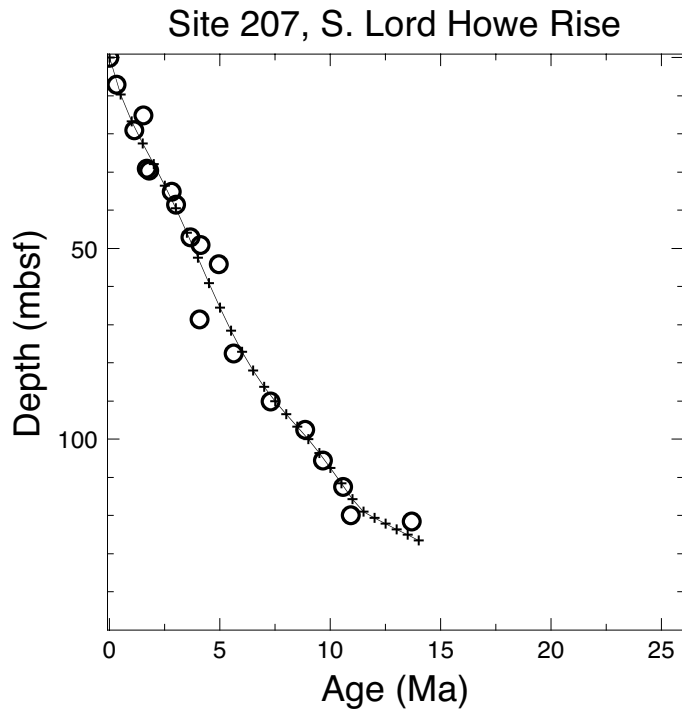


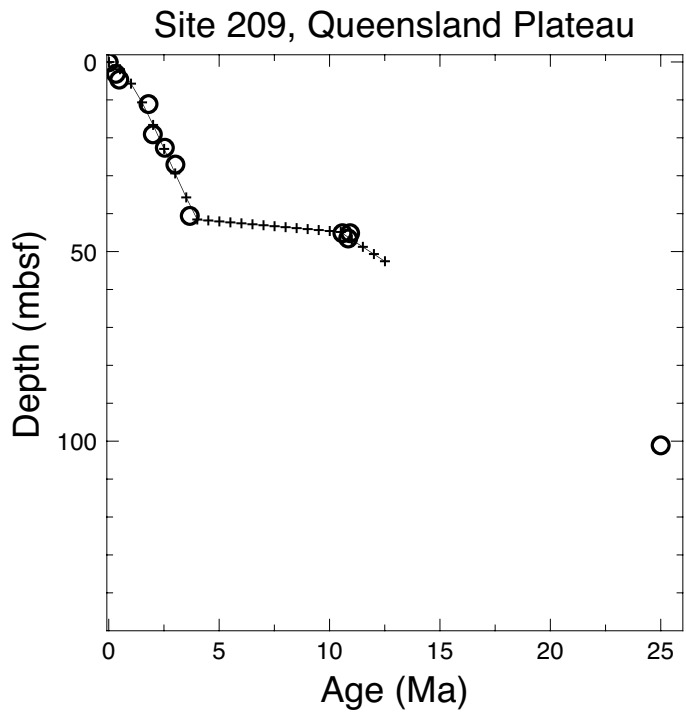
DSDP Leg 19 Drillsites



DSDP Leg 21 Drillsites

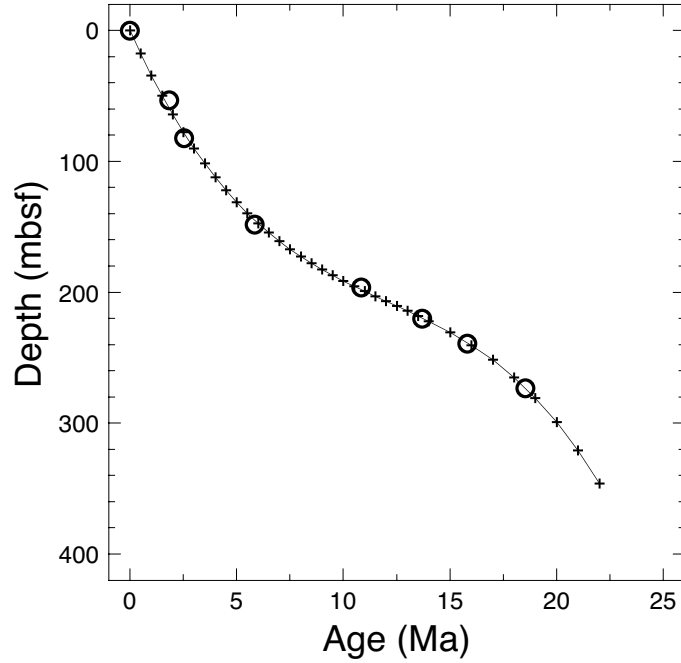




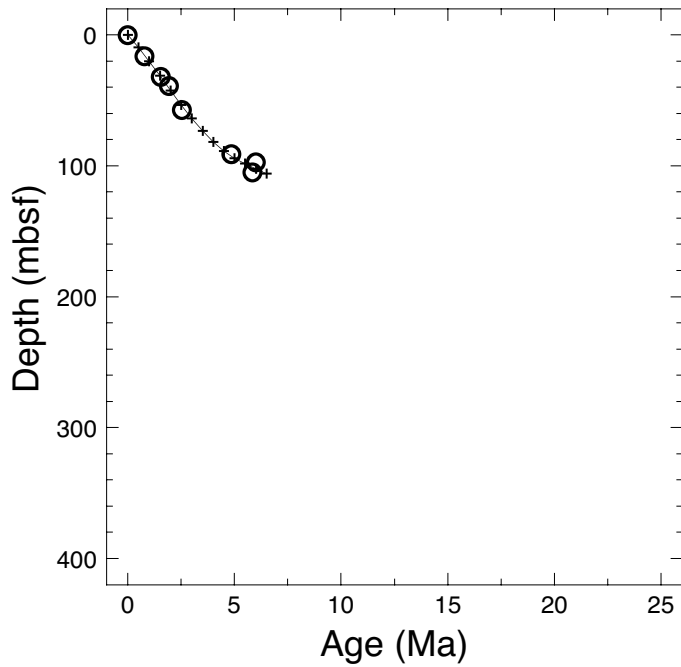


DSDP Leg 28 Drillsites

Site 266, Antarctic, S of SEIR

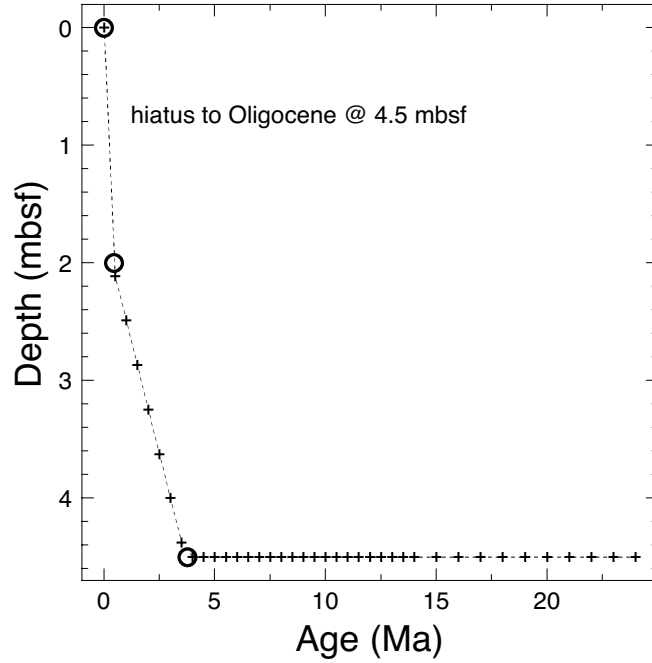


Site 274, Pacific N of Ross Sea

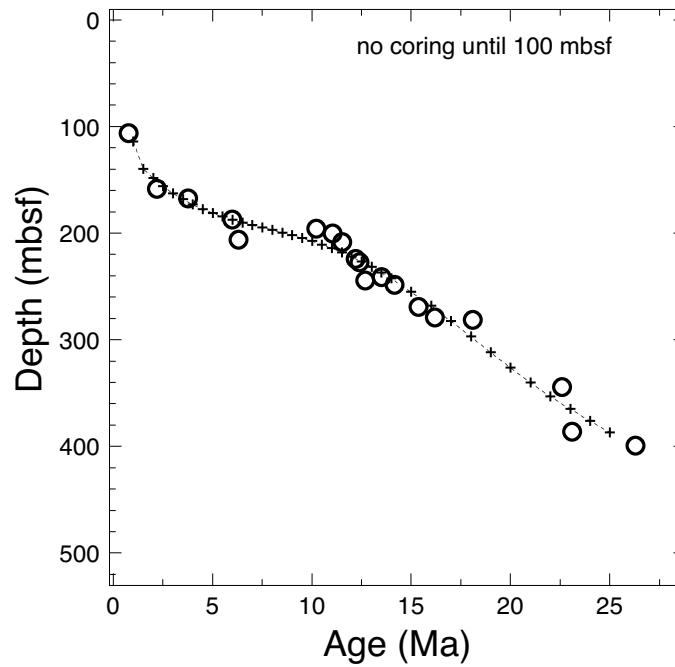


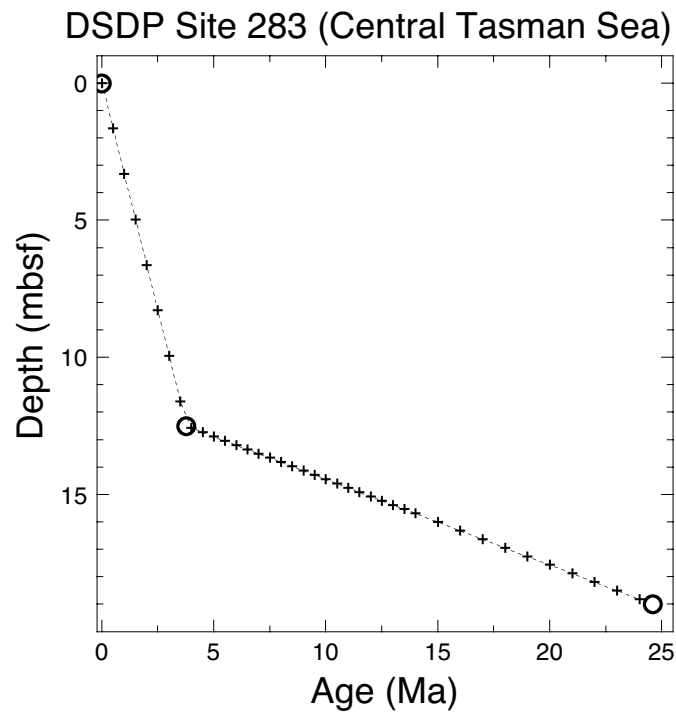
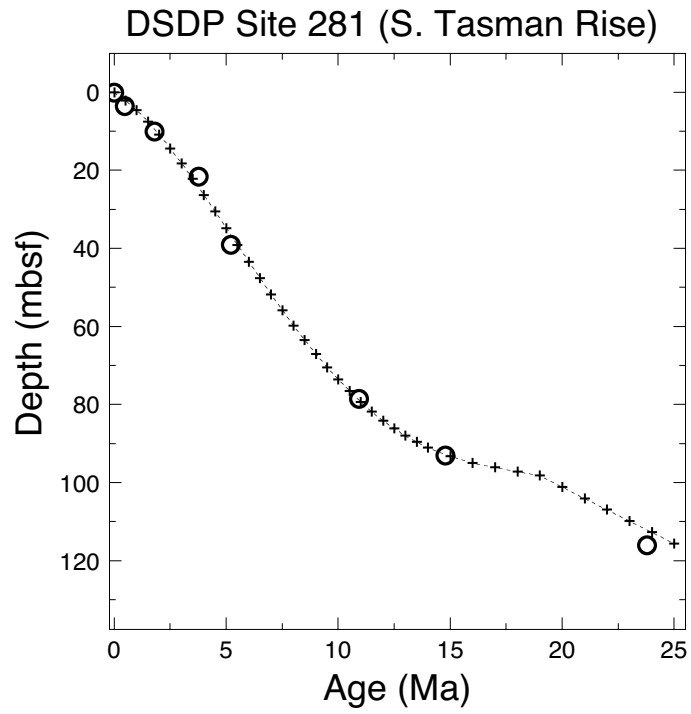
DSDP Leg 29 Drillsites

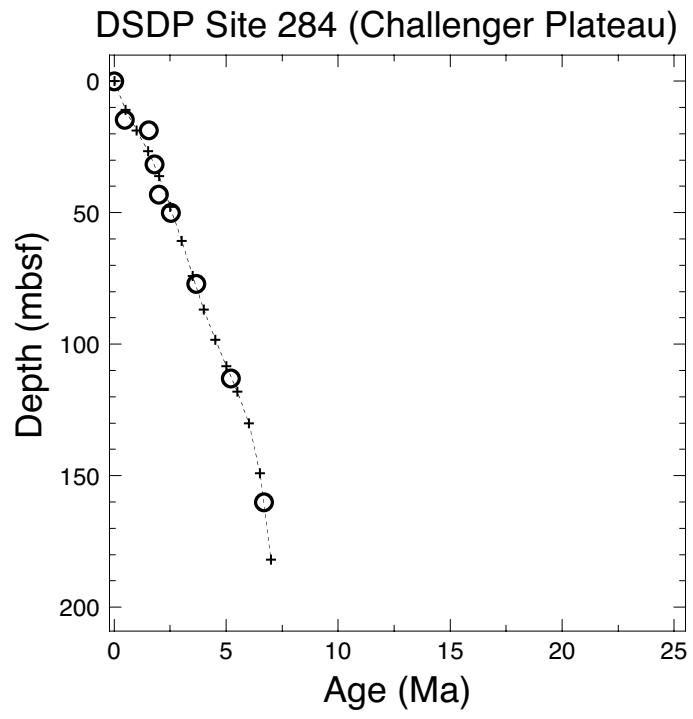
DSDP Site 277 (S. Campbell Plateau)



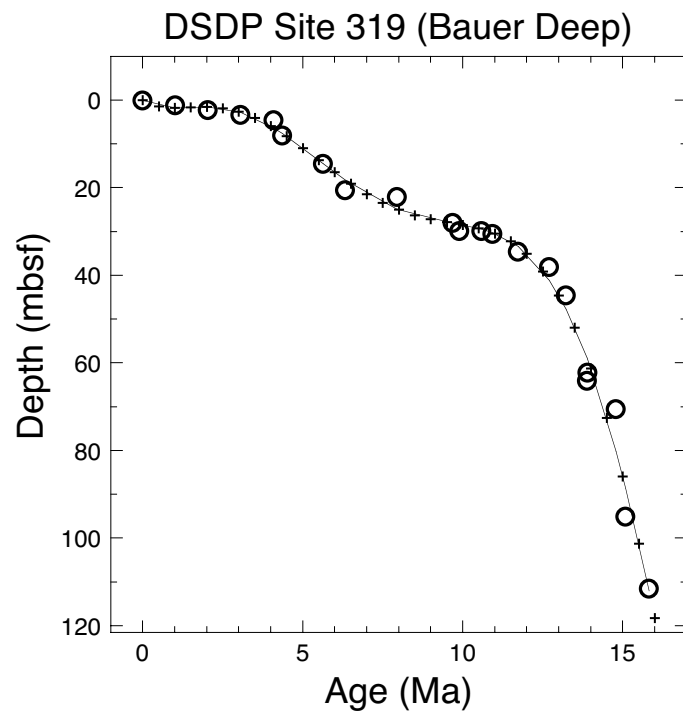
DSDP Site 278 (Emerald Basin)





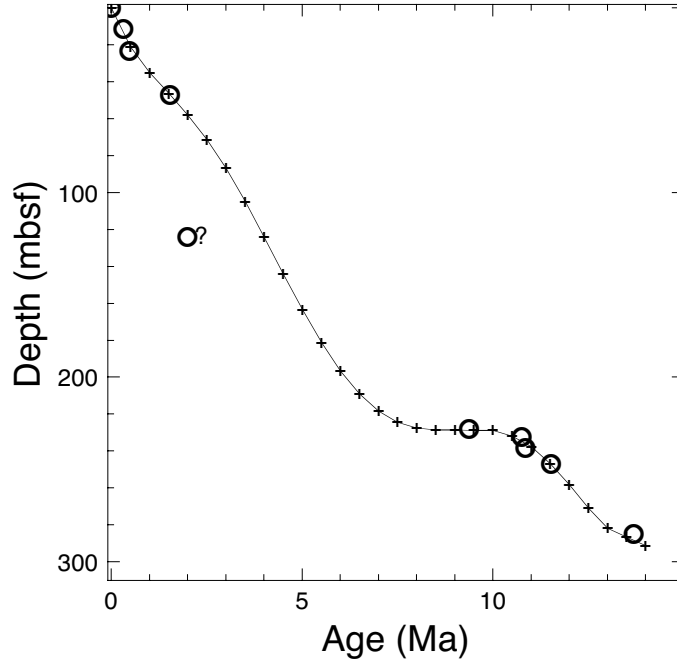


DSDP Leg 34 Drillsites

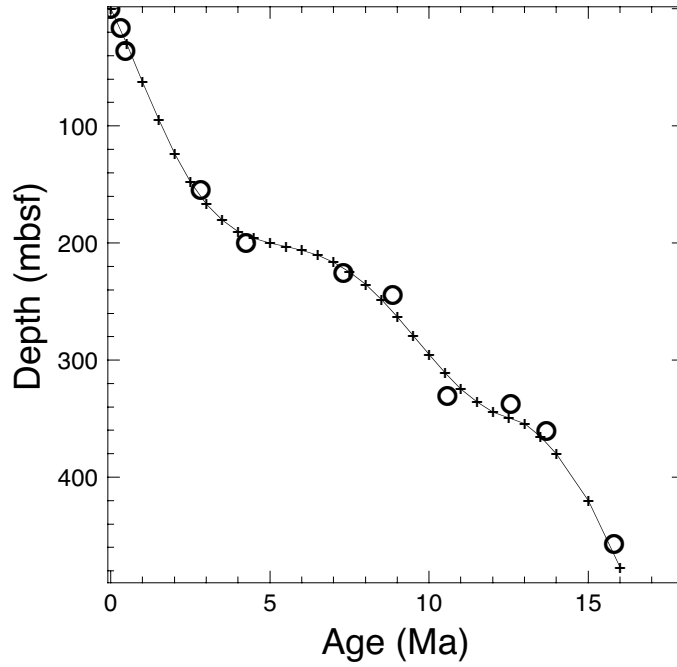


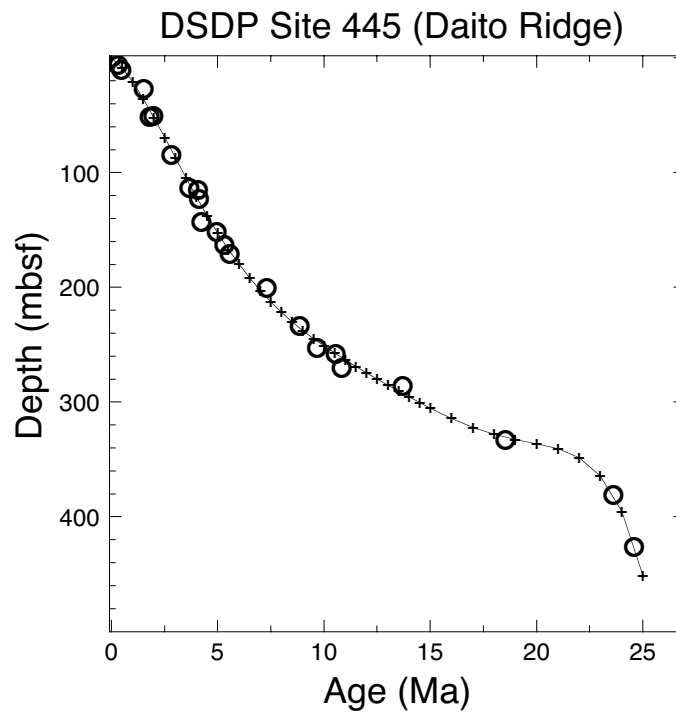
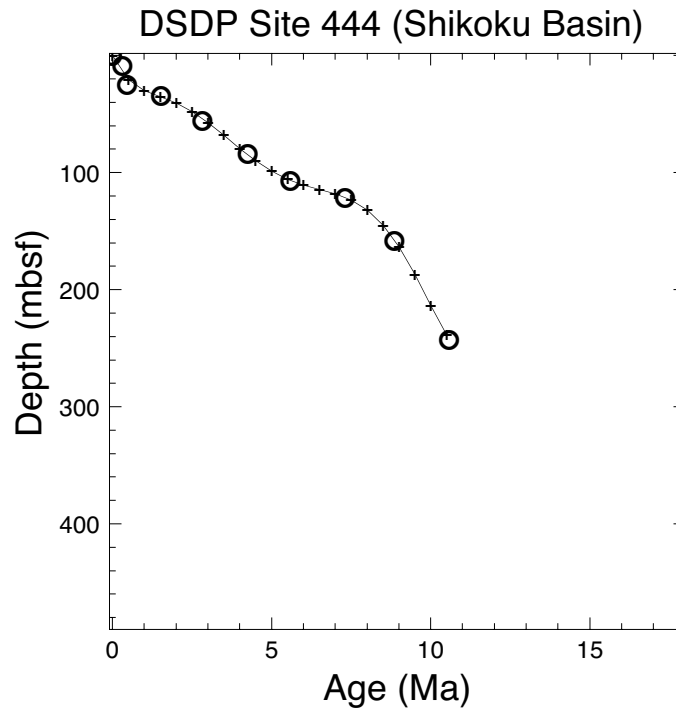
DSDP Leg 59 Drillsites

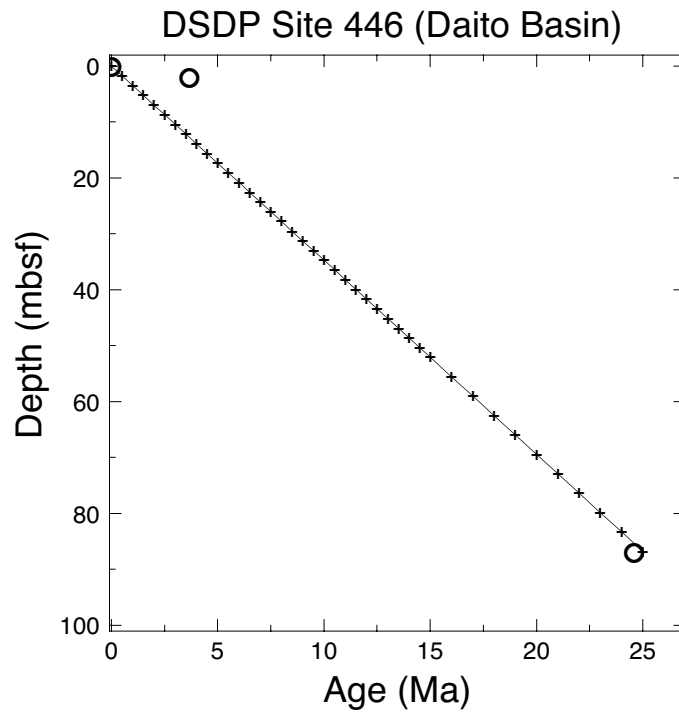
DSDP Site 442 (Shikoku Basin)



DSDP Site 443 (Shikoku Basin)

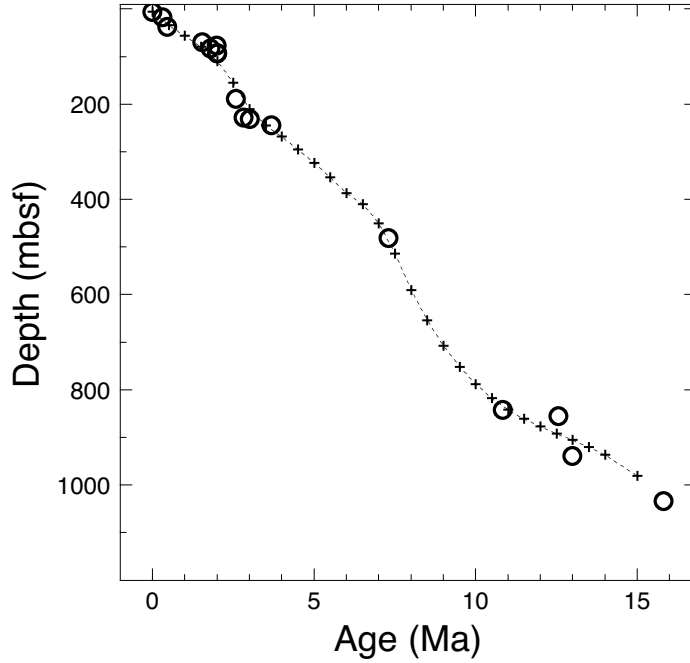




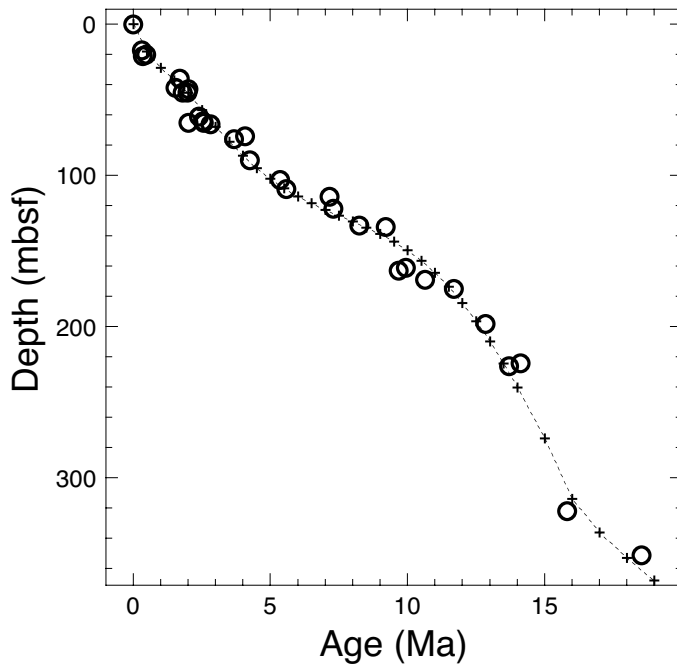


DSDP Leg 63 Drillsites

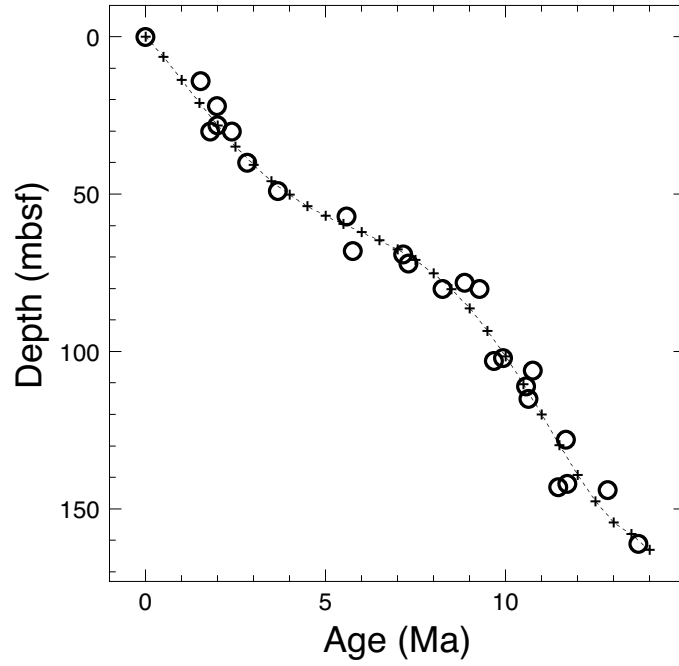
DSDP Site 467 (California Borderlands)



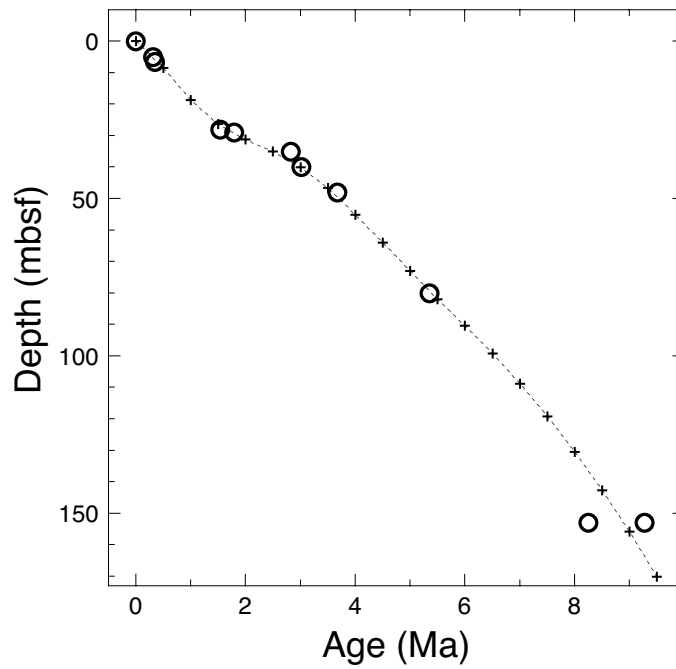
DSDP Site 469
(seaward of California Borderlands)



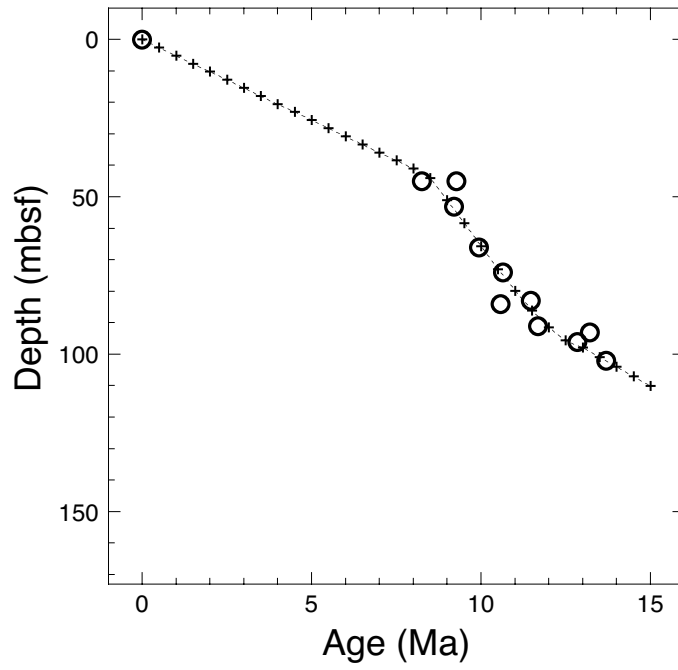
DSDP Site 470 (seaward of Baja California)



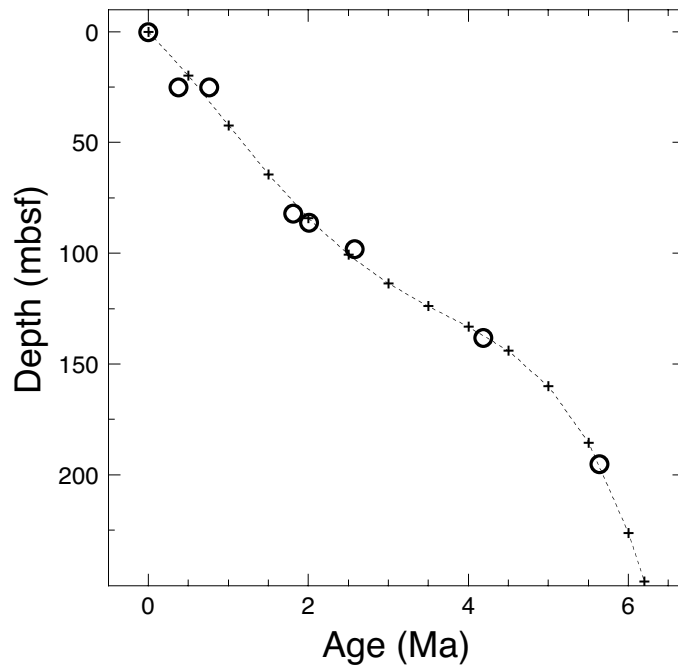
DSDP Site 471 (seaward of Baja California)



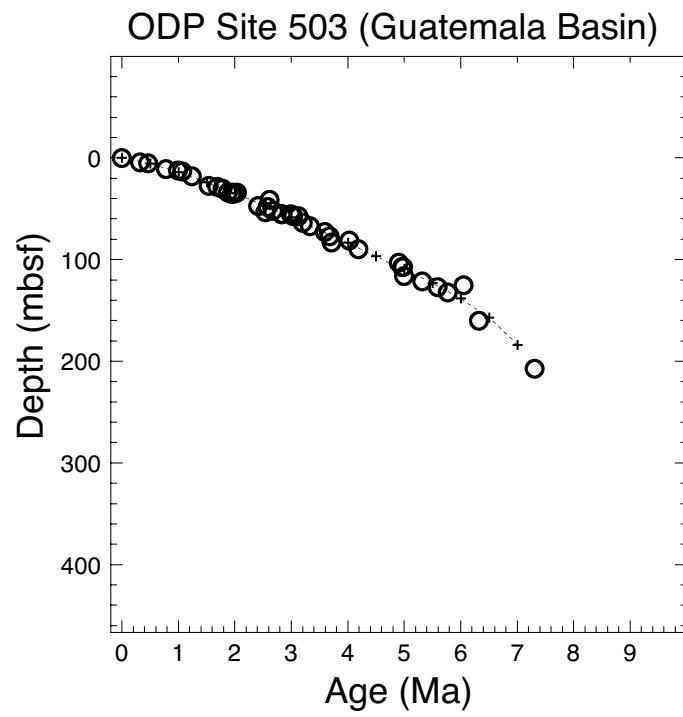
DSDP Site 472(seaward of Baja California)



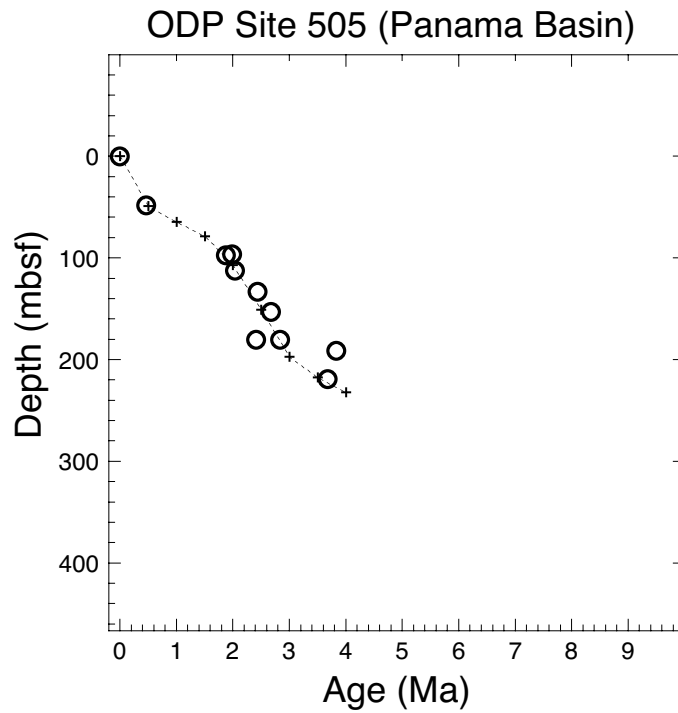
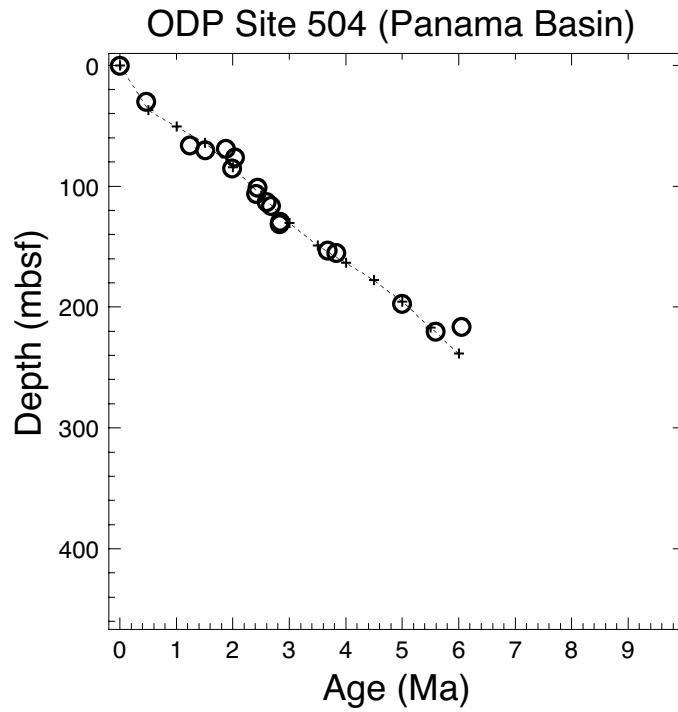
DSDP Site 473 (mouth of Gulf of California)



DSDP Leg 68 Drillsites

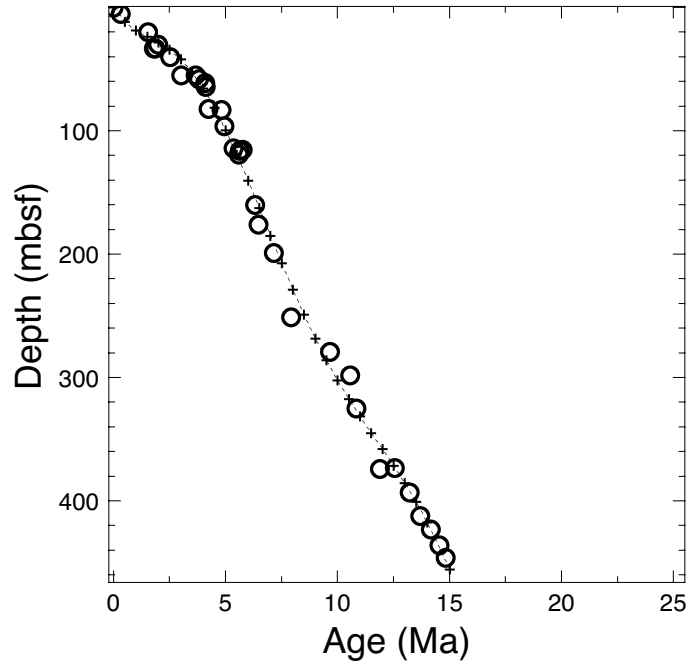


DSDP Leg 69 Drillsites

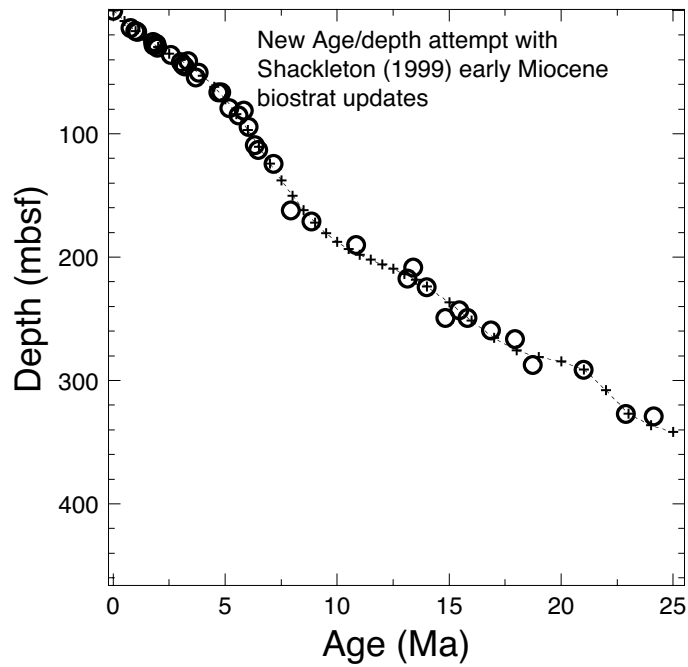


DSDP Leg 85 Drillsites

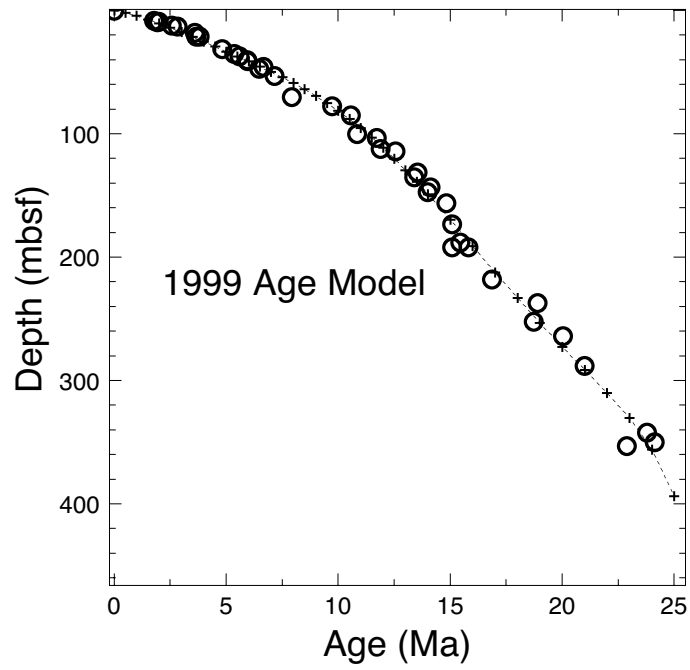
DSDP Site 572 (E. equatorial Pacific)



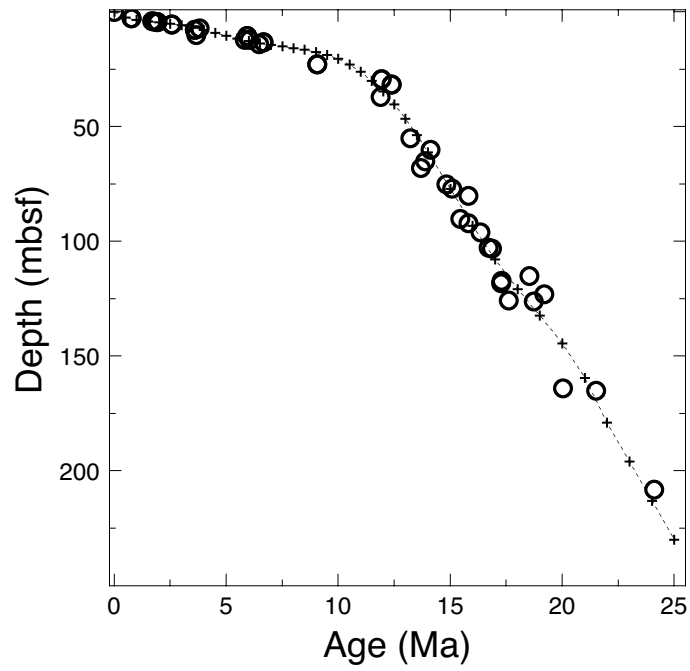
DSDP Site 573 (central equatorial Pacific)



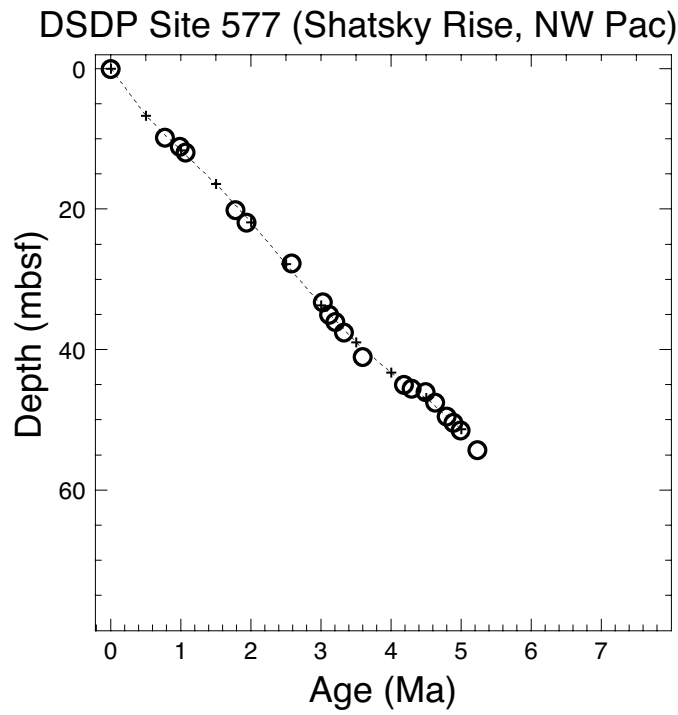
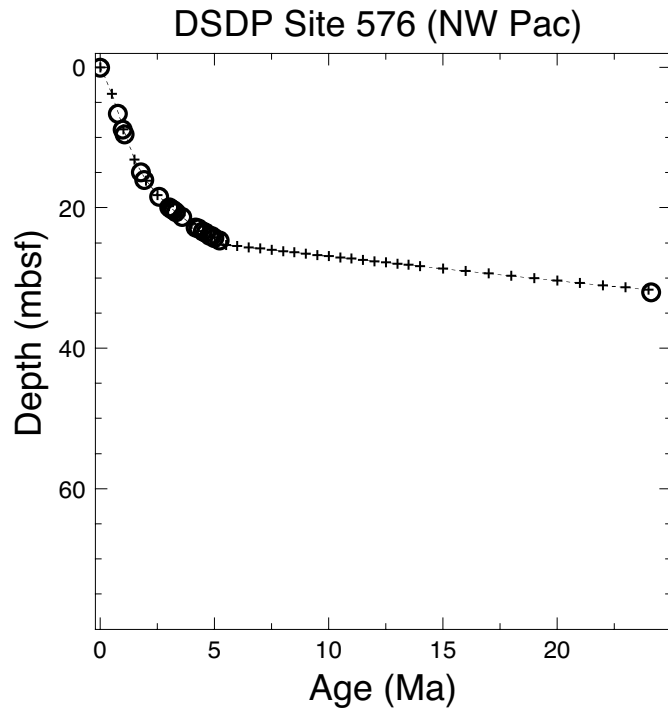
DSDP Site 574 (central equatorial Pacific)

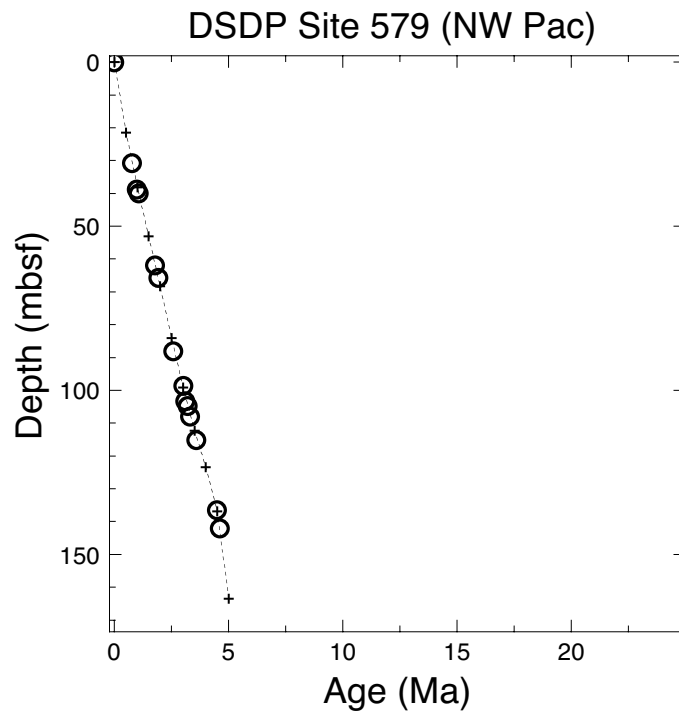
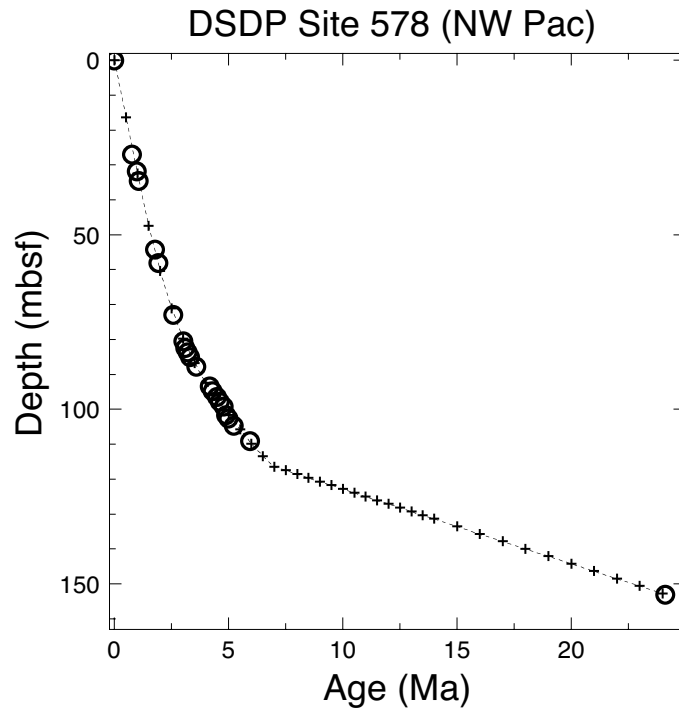


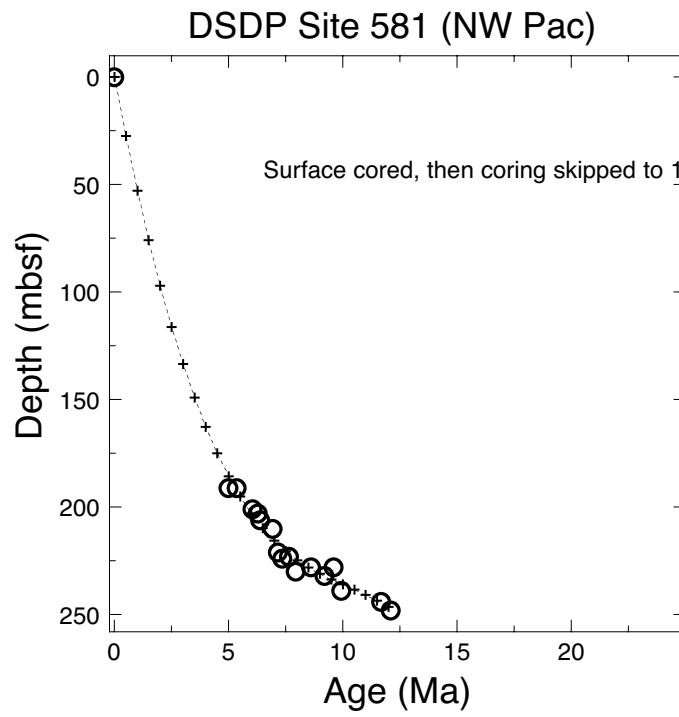
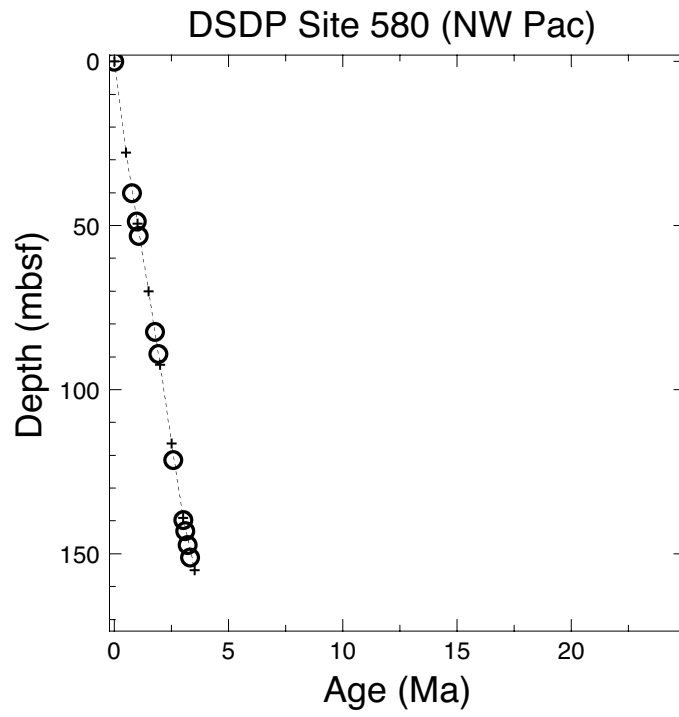
DSDP Site 575 (central equatorial Pacific)



DSDP Leg 86 Drillsites

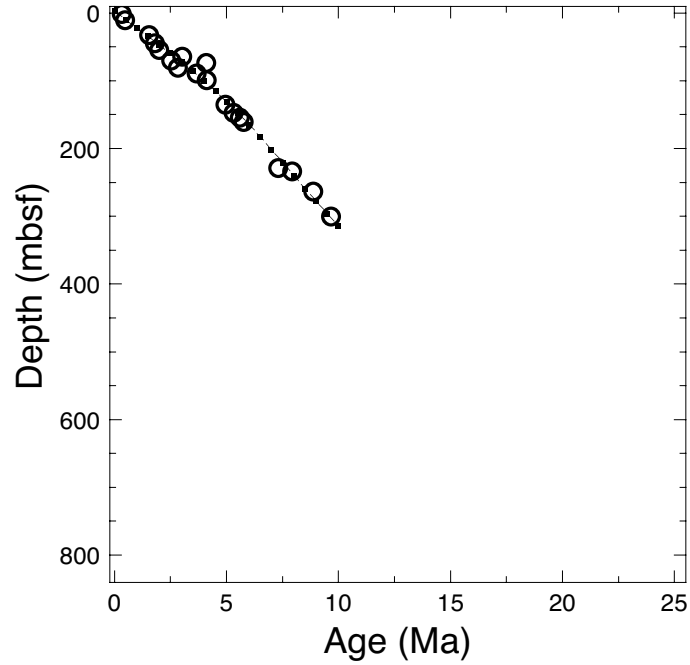




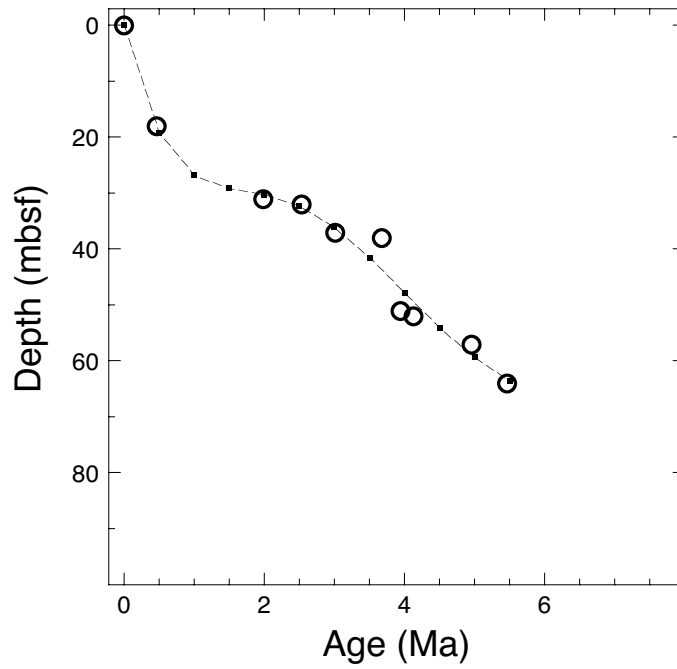


DSDP Leg 90 Drillsites

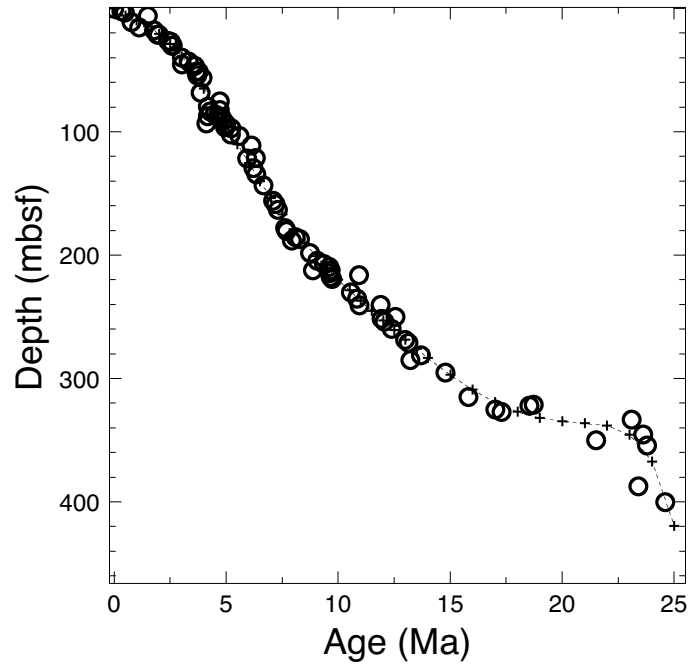
DSDP Site 586 (Ontong Java Plateau)



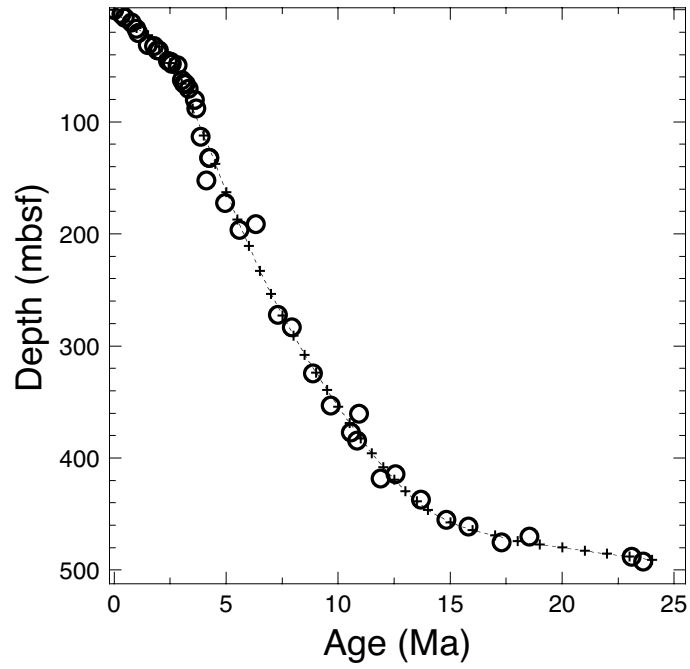
DP Site 587 (Lansdowne Bank, L. Howe Rise)



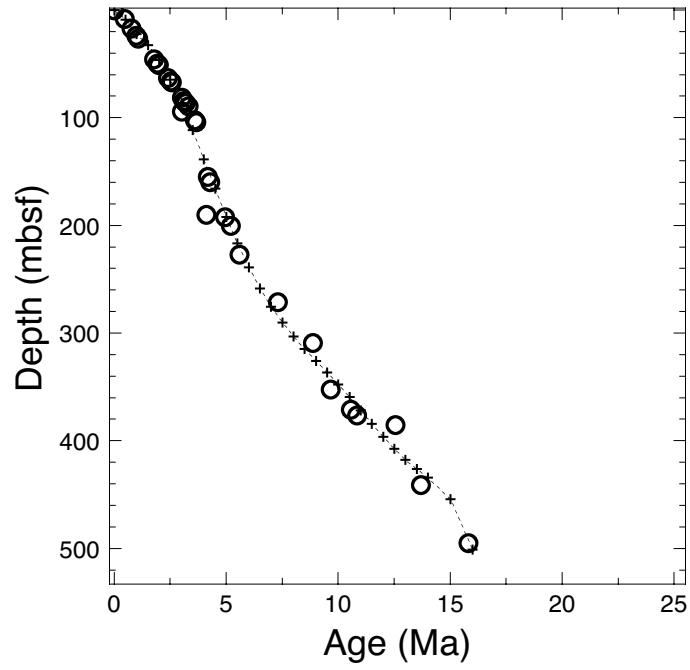
DSDP Site 588 (Lord Howe Rise, W. Pac)



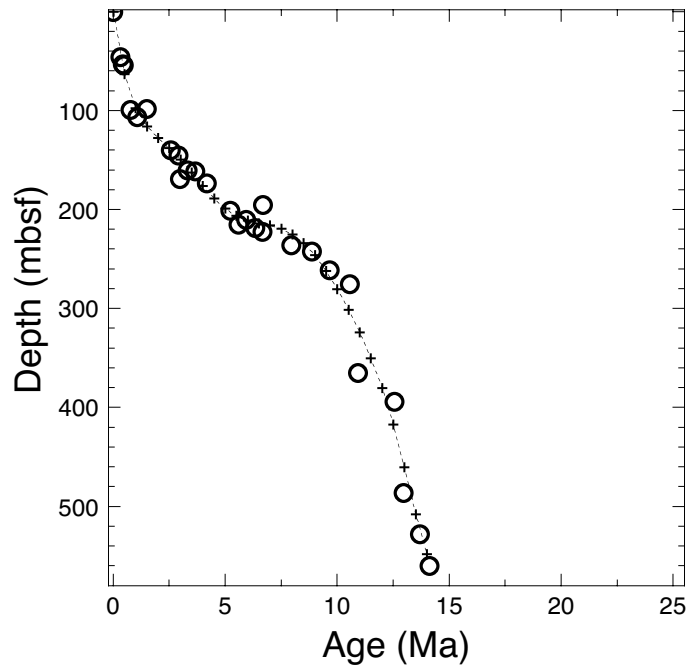
DSDP Site 590 (Lord Howe Rise, W. Pac)



DSDP Site 591 (Lord Howe Rise, W. Pac)

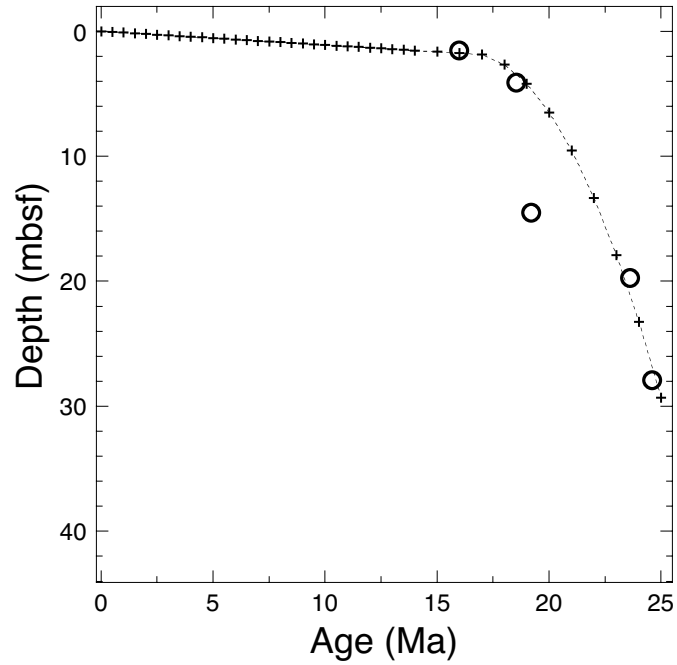


DSDP Site 594 (Chatham Rise, W. Pac)

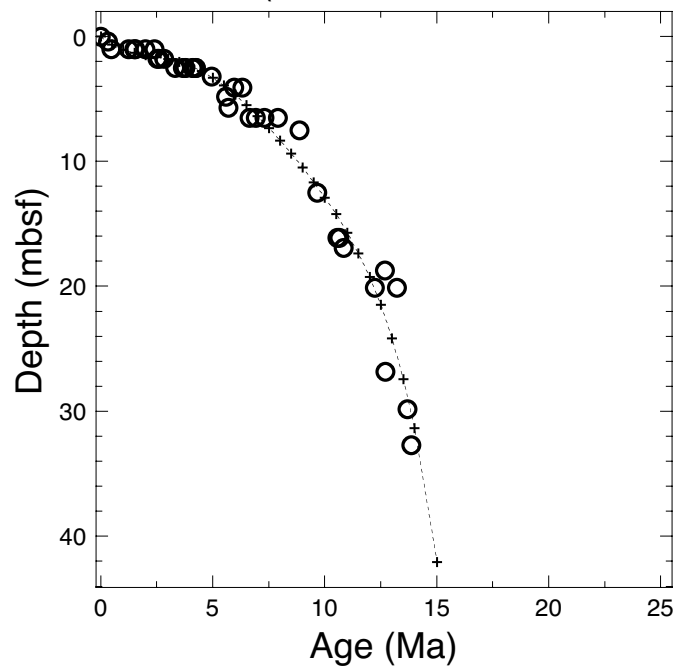


DSDP Leg 92 Drillsites

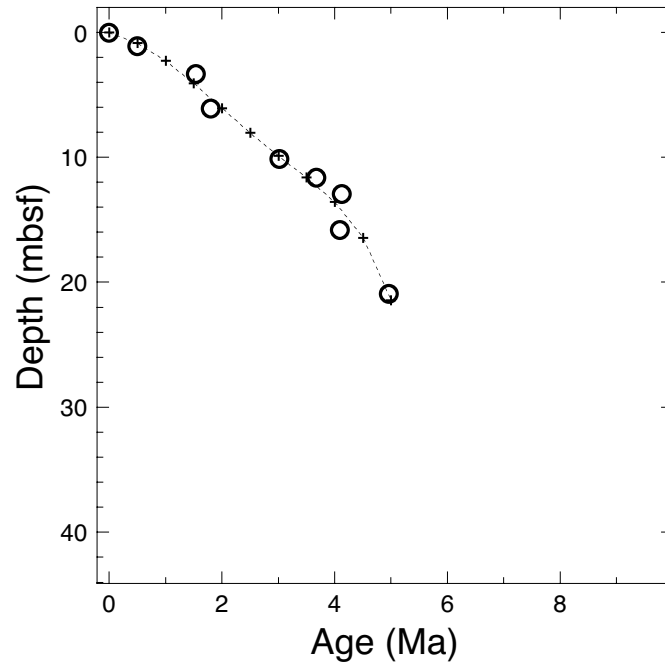
DSDP Site 597 (west flank, southern EPR)



DSDP Site 598 (west flank, southern EPR)

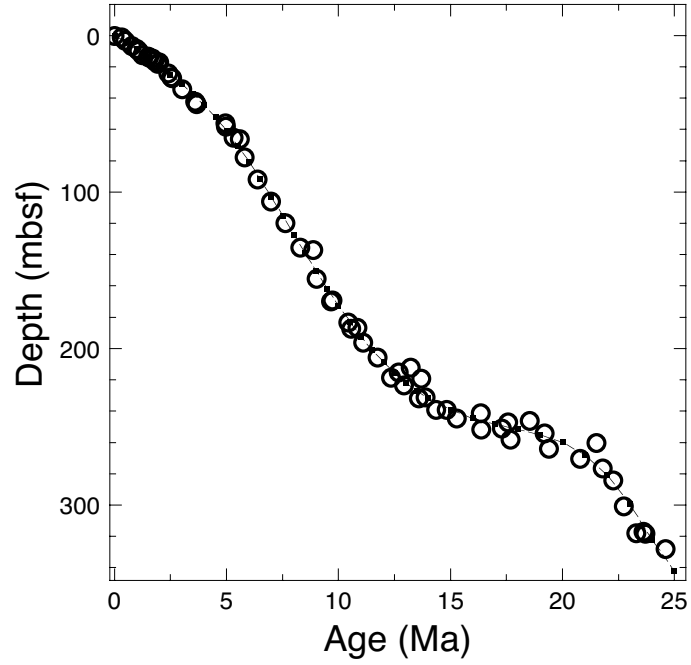


DSDP Site 601 (west flank, southern EPR)

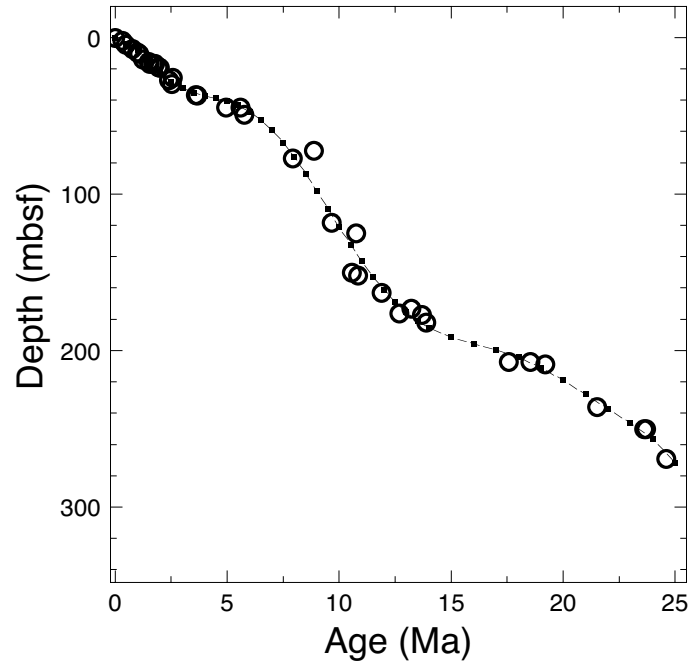


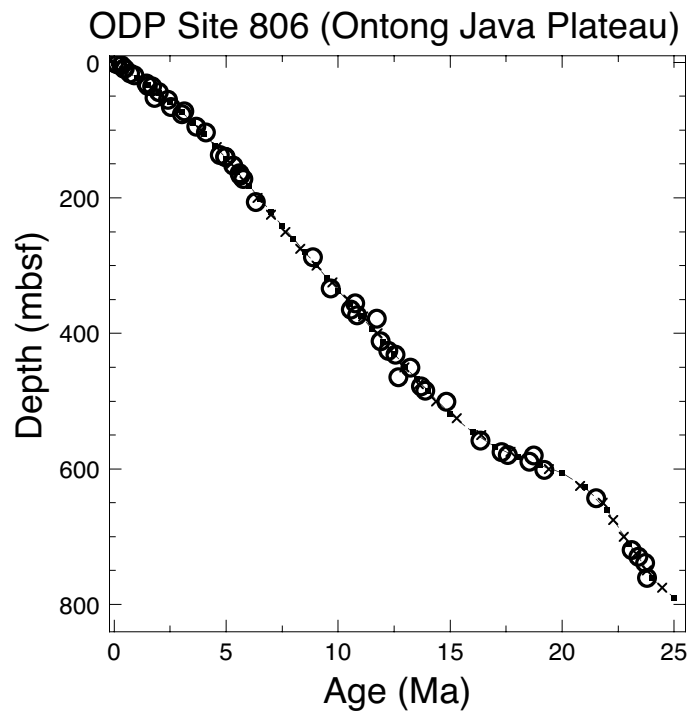
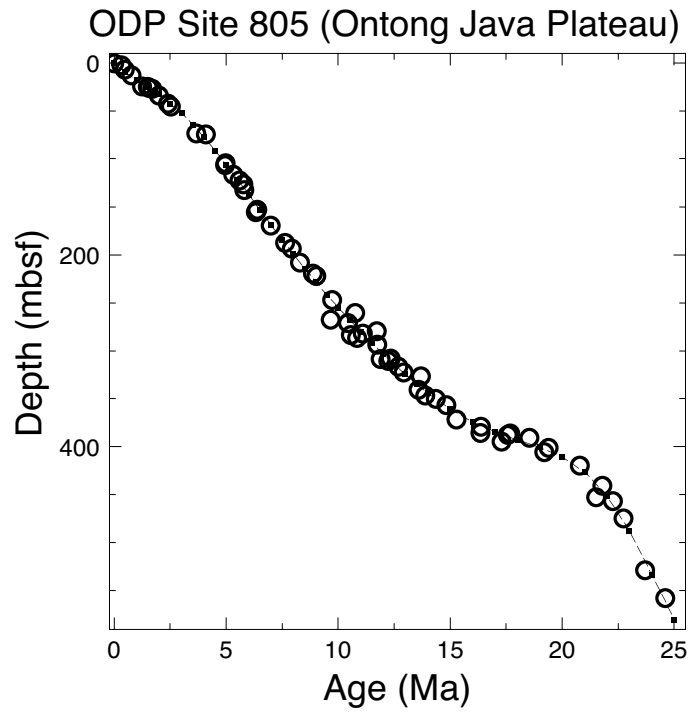
ODP Leg 130 Drillsites

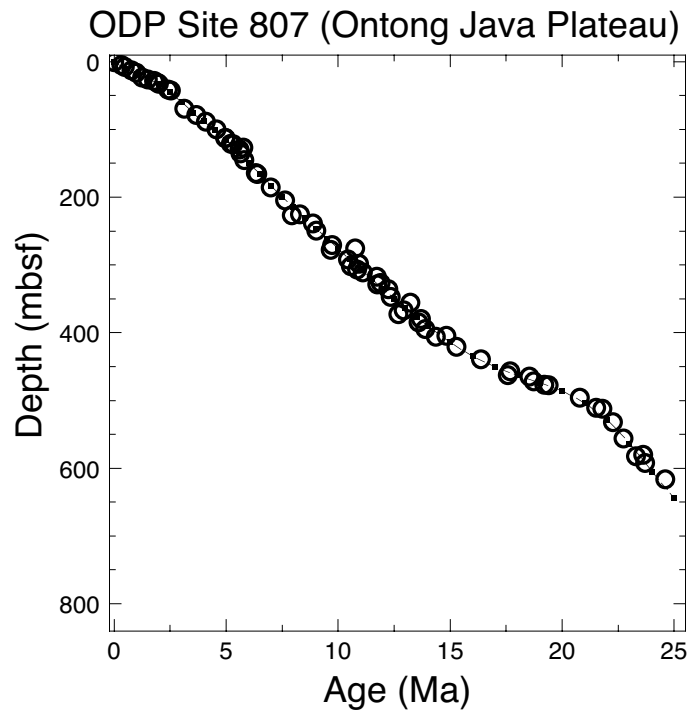
ODP Site 803 (Ontong Java Plateau)



ODP Site 804 (Ontong Java Plateau)

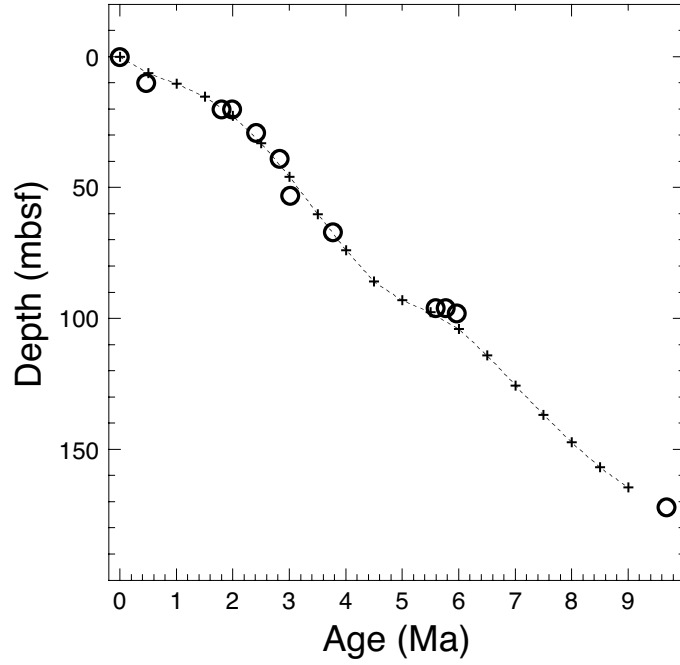




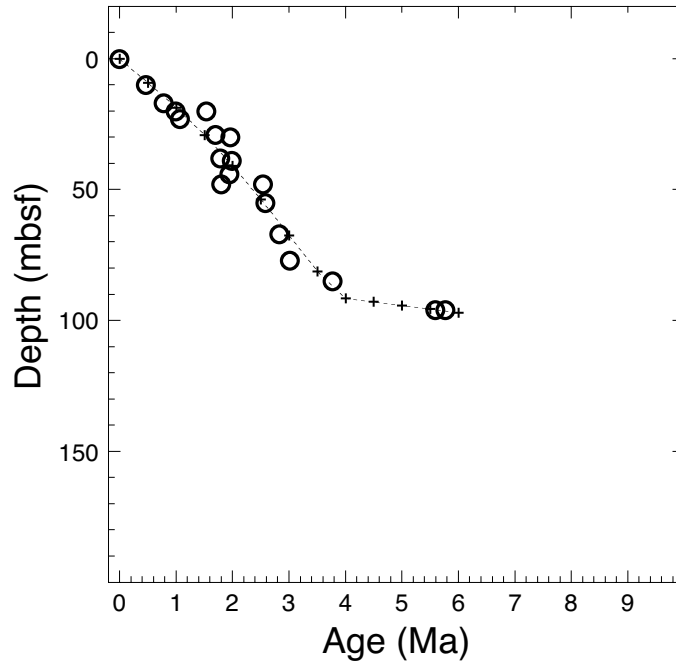


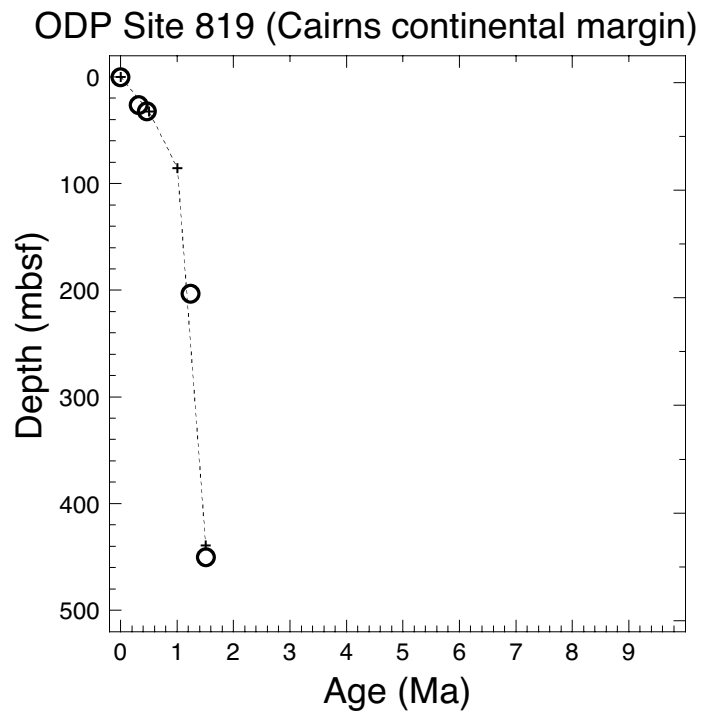
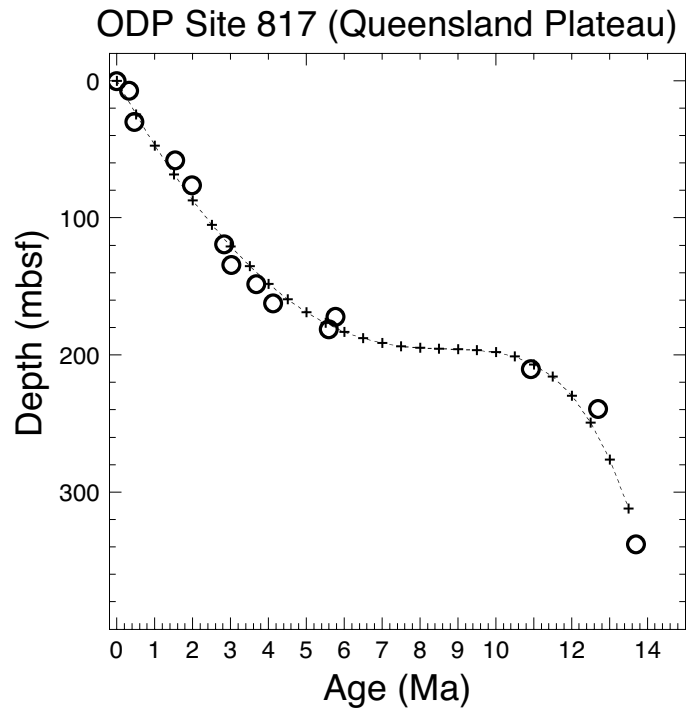
ODP Leg 133 Drillsites

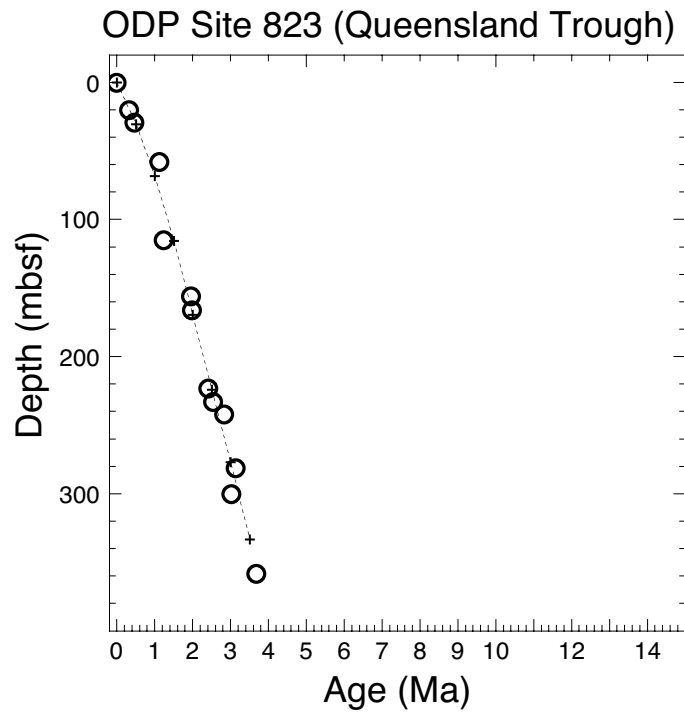
ODP Site 811 (Queensland Plateau)



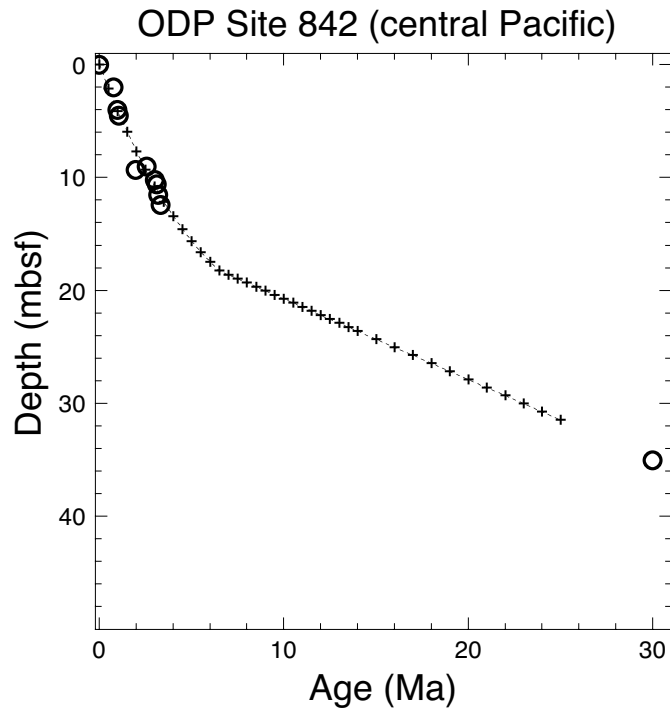
ODP Site 813 (Queensland Plateau)





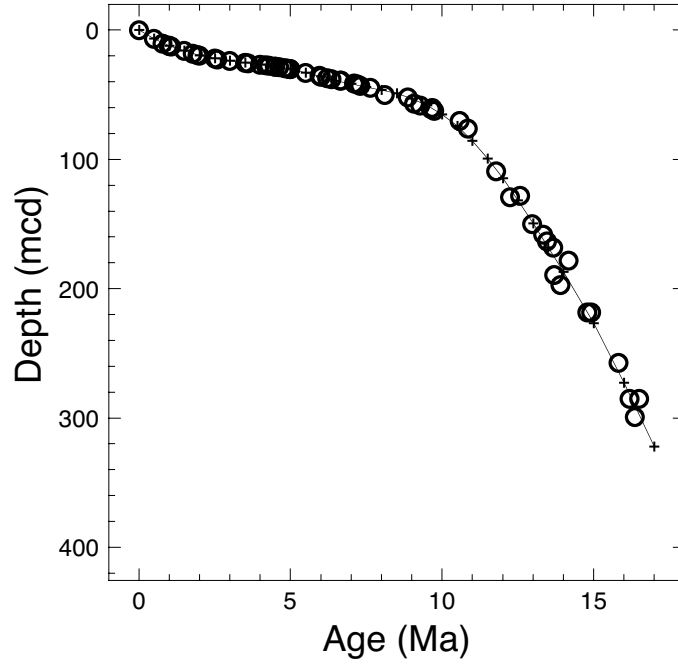


ODP Leg 136 Drillsites

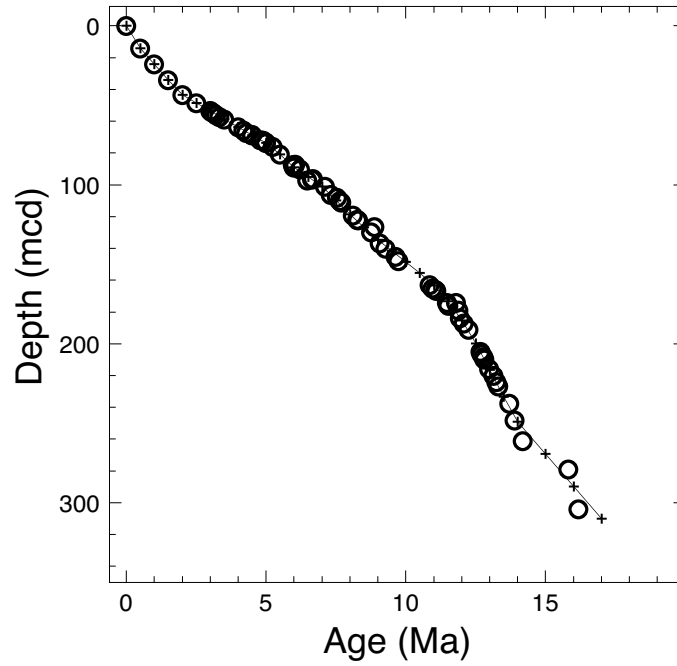


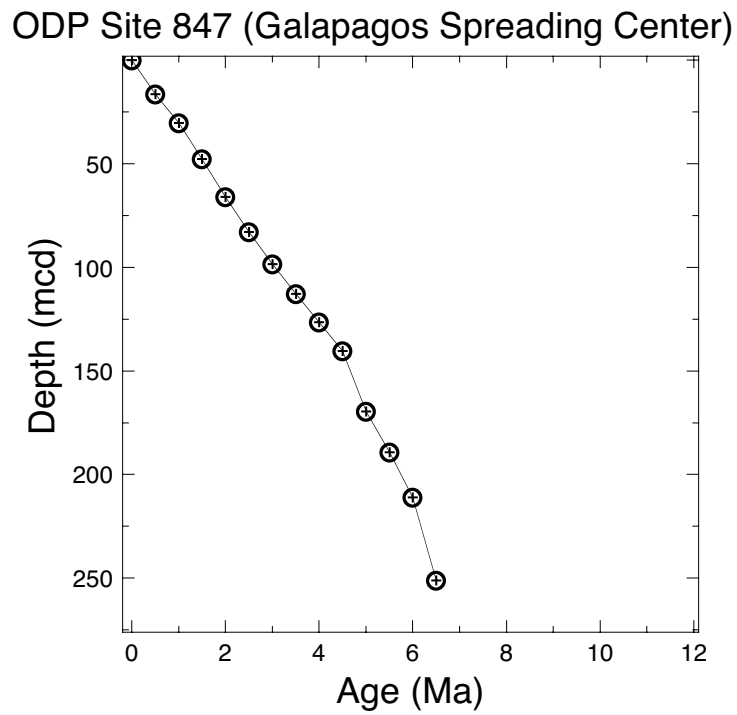
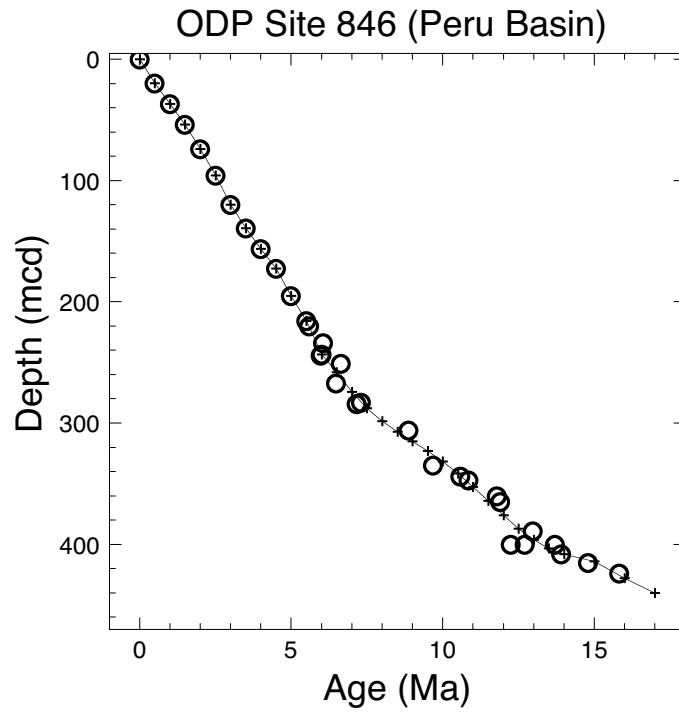
ODP Leg 138 Drillsites

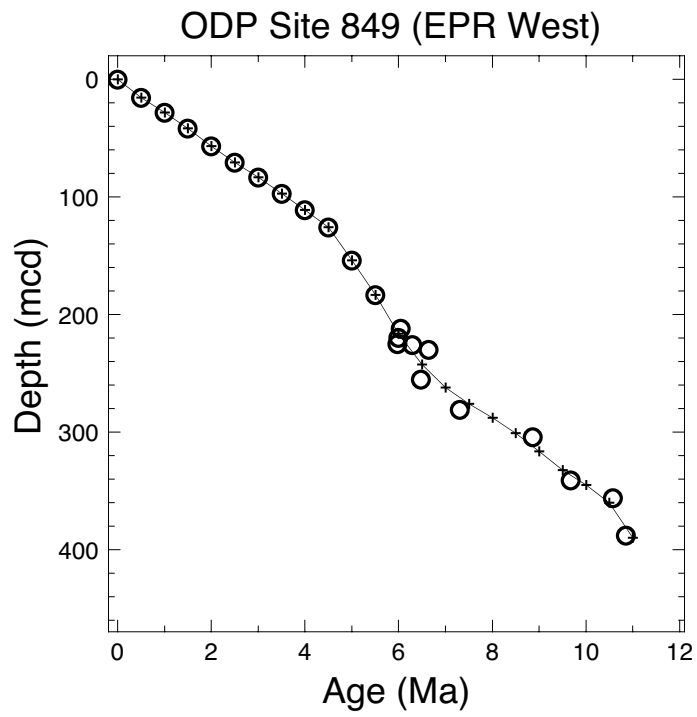
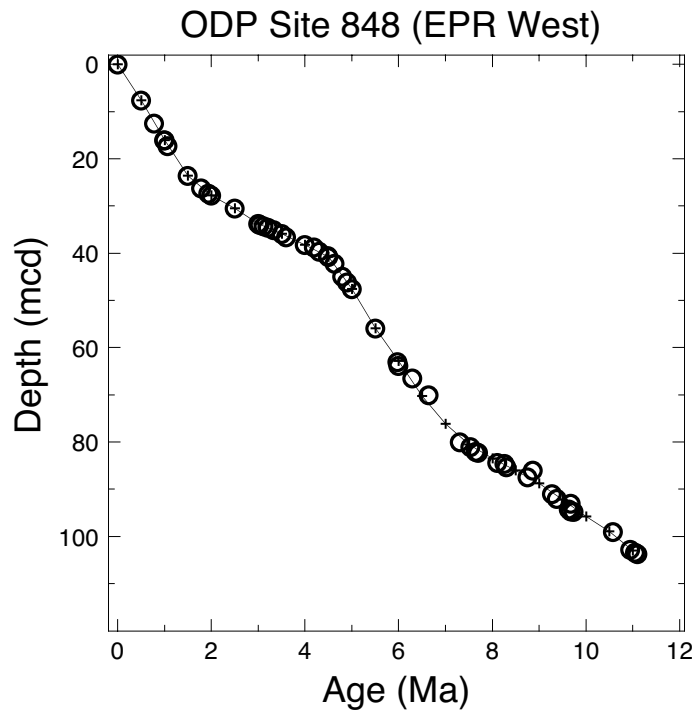
ODP Site 844 (Guatemala Basin)

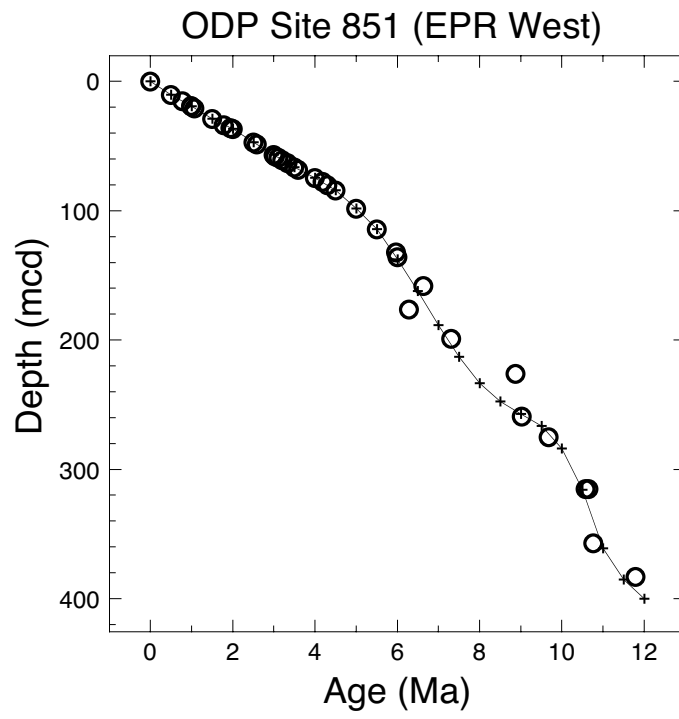
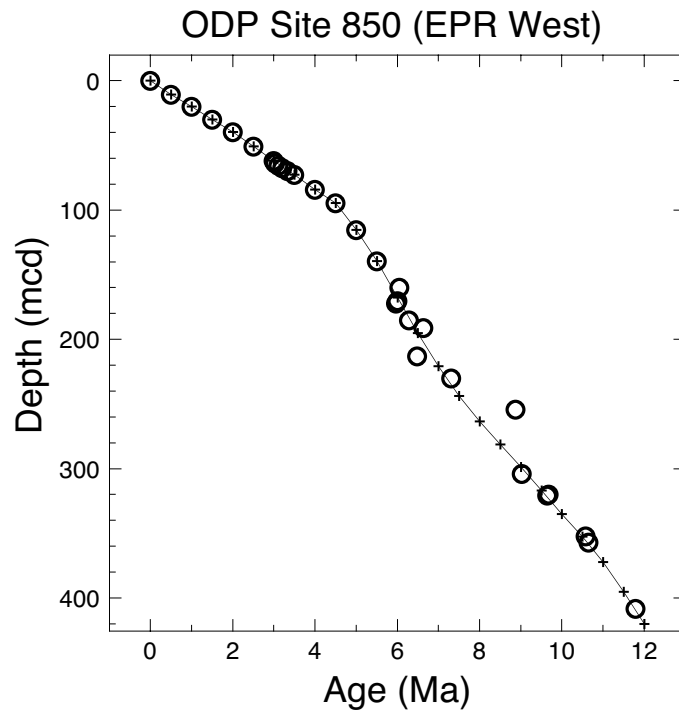


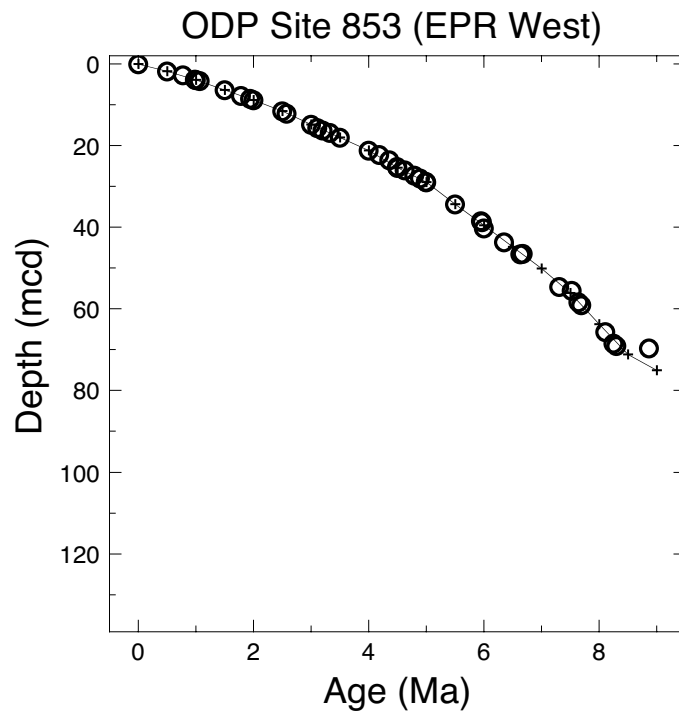
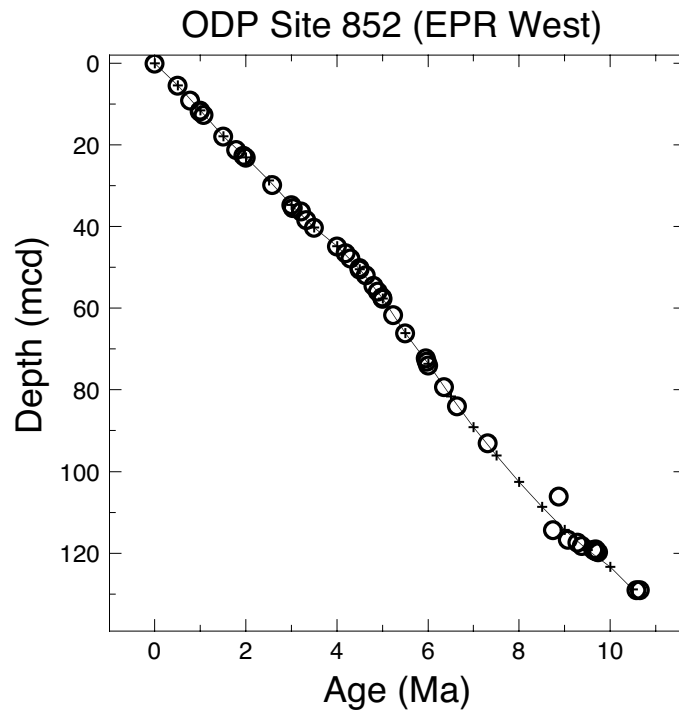
ODP Site 845 (Guatemala Basin)

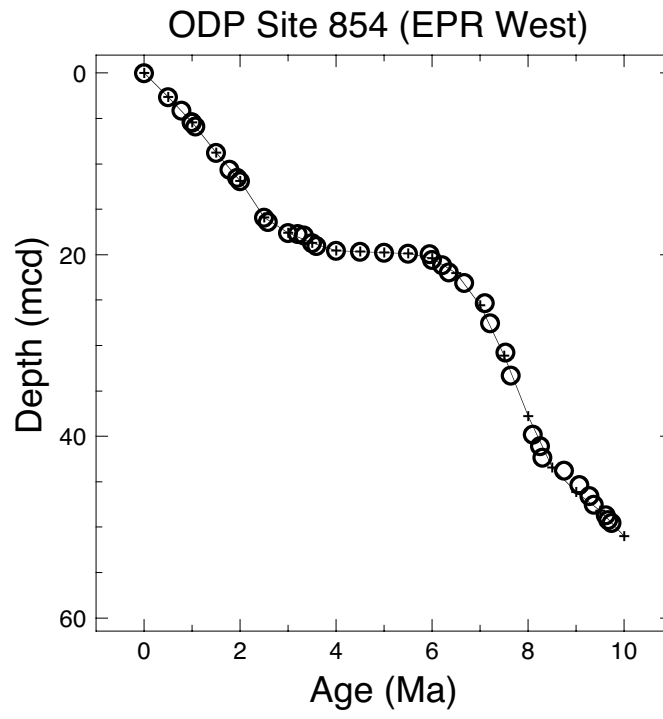




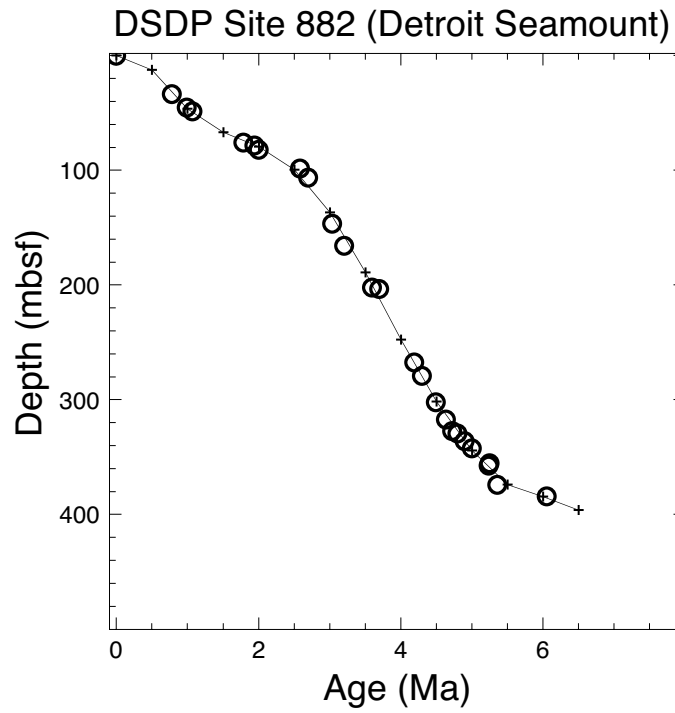
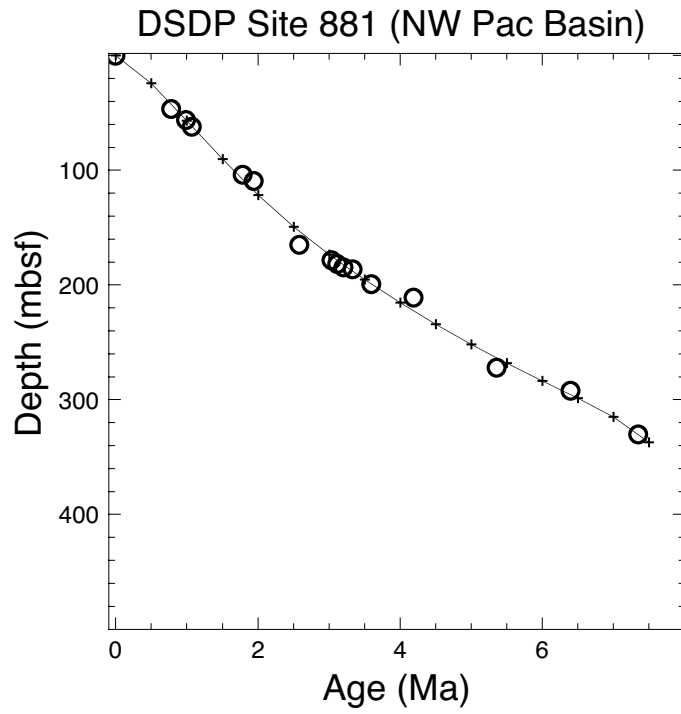




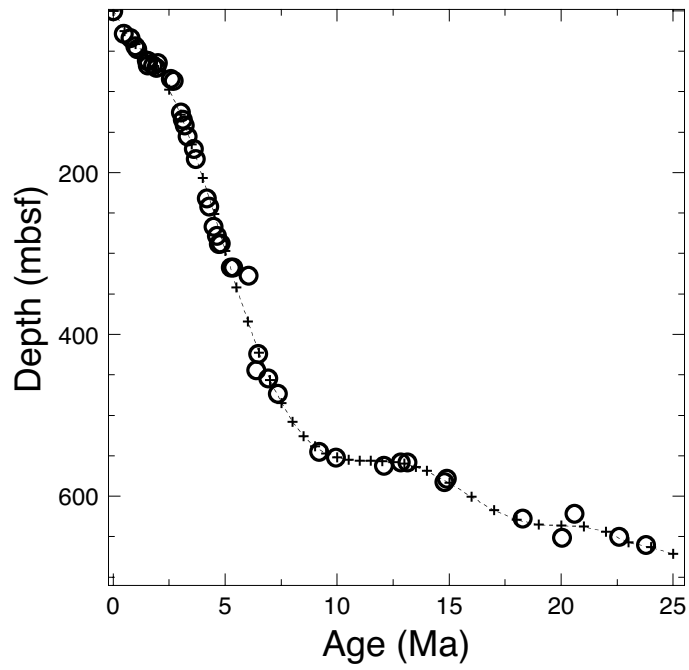




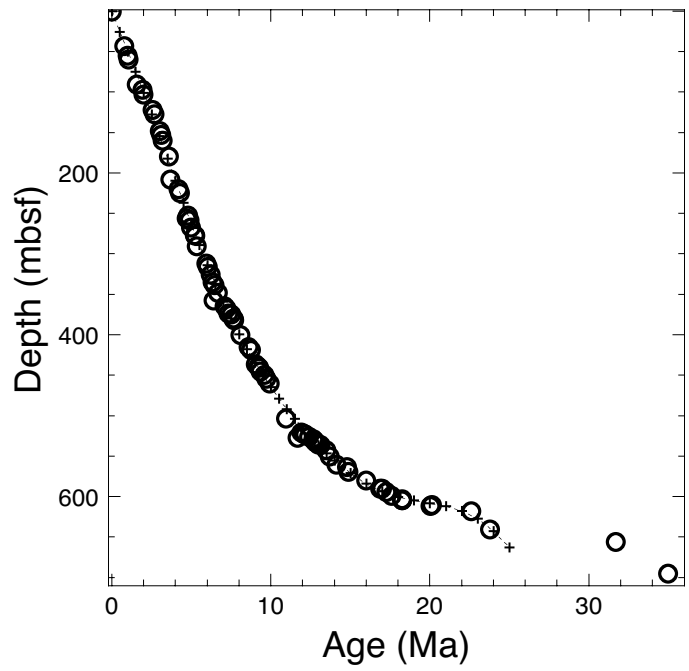
DSDP Leg 145 Drillsites



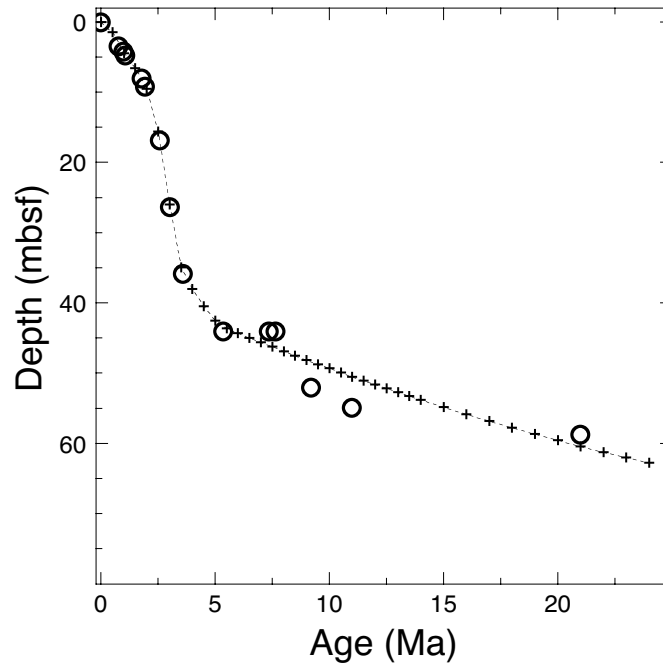
ODP Site 883 (Detroit Seamount, NW Pac)



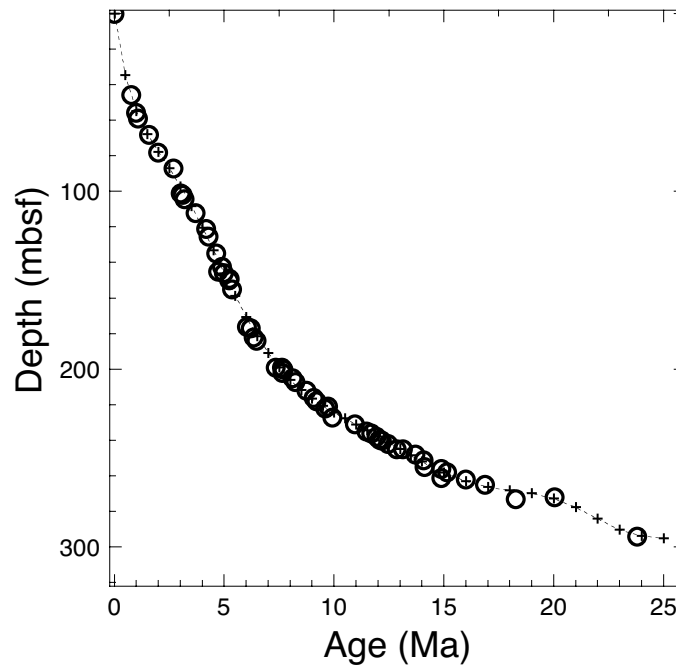
ODP Site 884 (Detroit Seamount, NW Pac)



ODP Site 886 (Chinook Trough, N Pac)

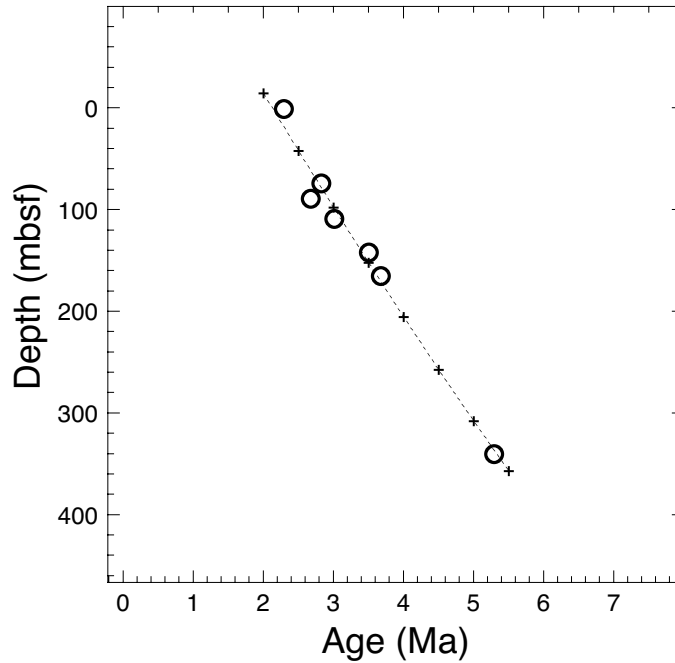


ODP Site 887 (Patton-Murray Seamount, NE Pac)



ODP Leg 167 Drillsites

ODP Site 1022 (Delgada Slope, Ca margin)



All other Leg 167 sites use published stratigraphy:

Site 1010--Hayashida et al, 1999

Geoph. J. Int. 139, 829-840

and Ravelo et al., 1997

Paleoc 12(6), 729-741

Sites 1011-1021:

Ravelo et al., 1997

Paleoc 12(6), 729-741