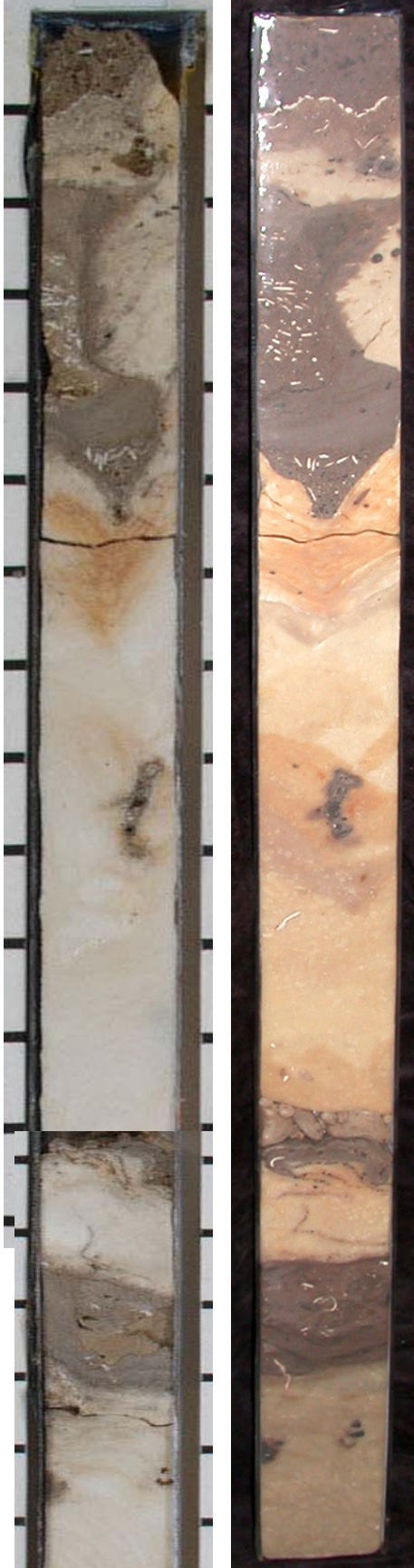


Tahiti Sea Level Replica

Integrated Ocean Drilling Program - Expedition 310-20A-22R-2



Expedition 310 collected evidence of changes in sea level during the last deglaciation, including a record of temperature and salinity changes in the southern Pacific. The replica of 310-20A-22R-2 displays coral sandstone and massive coral (*Porites*) in growth position with interbedded microbiolites. Cavities are filled with *Halimeda* (calcareous algae) segments, bivalves and microbiolites (microbiolites - organosedimentary deposits that have accreted as a result of benthic (prokaryotic or eukaryotic) communities, trapping and binding detrital sediment and/or forming the locus of mineral precipitation (Burne & Moore, 1987).

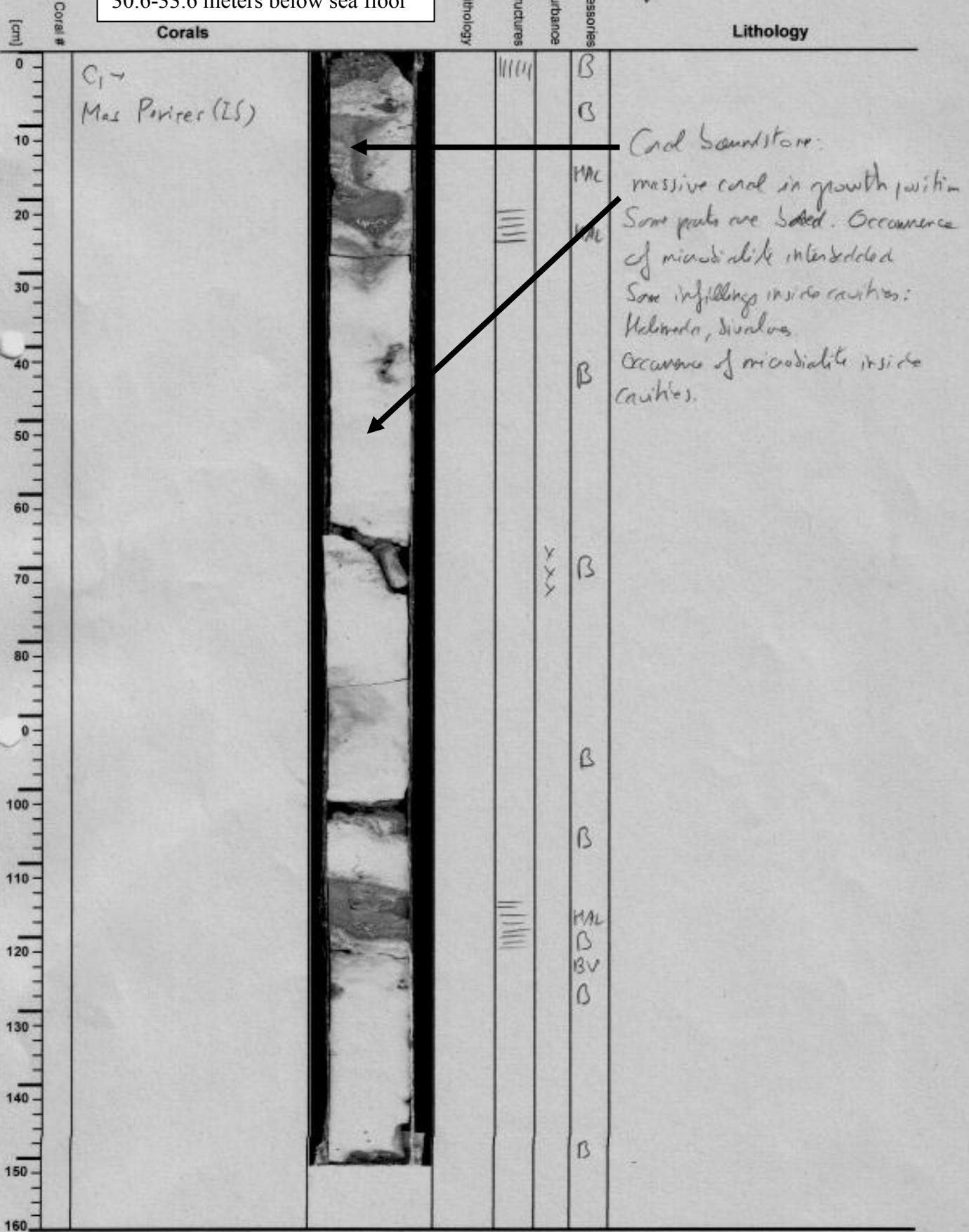
Comparison composite real core (left) and replica (right).

IODP-MSP (Exp. 310) VISUAL SECTION UNIT DESCRIPTION

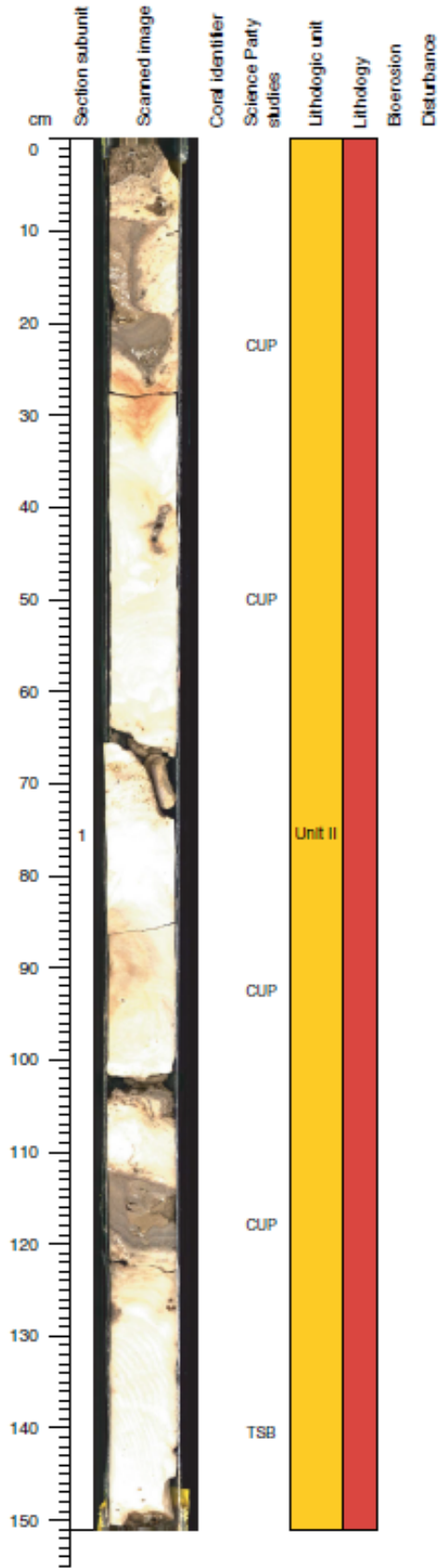
Exp. 310	Site 20	Hole A	Core 22	Type R	Section 2
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Observers
 Shirji B

30.6-33.6 meters below sea floor



Core Photo



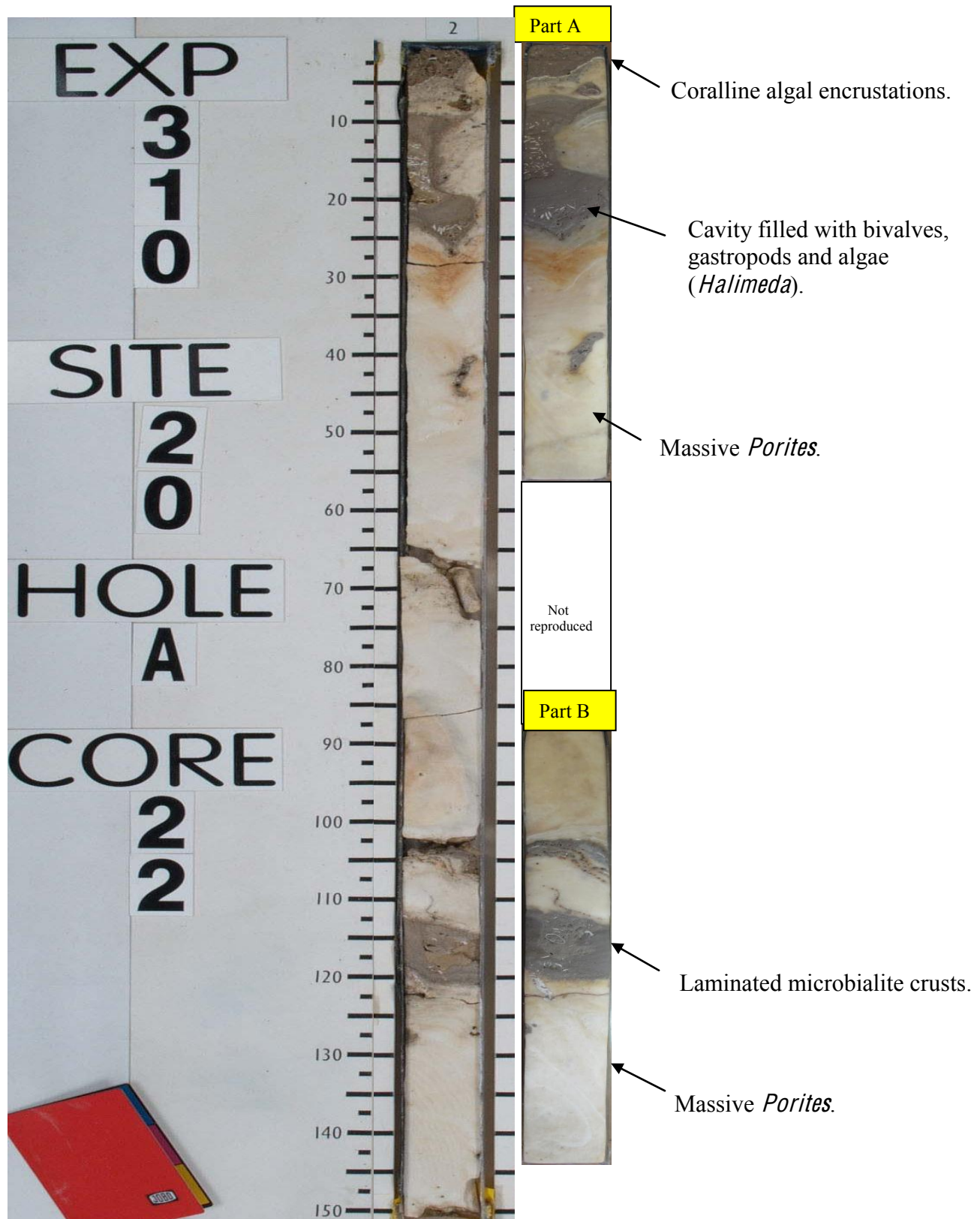
310-M0020A-22R-2 (Section top: 31.86 mbsf)

UNIT TYPE: Boundstone
 MAJOR LITHOLOGY: Porites - massive
 GENERAL DESCRIPTION: coral boundstone
 massive coral in growth position
 parts are bored
 mb interbedded
 infillings contain hal , bivalves, mb
 C1 massive Porites
 FOSSILS: Bivalve; Halimeda; Microbialite; Porites - massive



Mini Replicas of Expedition 310-20A-22R-2

Expedition 310 collected evidence of changes in sea level during the last deglaciation, including a record of temperature and salinity changes in the southern Pacific. The two 60cm replicas of 310-20A-22R-2 display coral sandstone and massive coral (*Porites*) in growth position with interbedded microbialites (organosedimentary deposits). Cavities are filled with *Halimeda* (calcareous algae) segments, gastropods, bivalves and microbialites.



Comparison of real core (left) and part A and B mini-replicas (right).