D1-2 : L5 - 82 - SP

photo 3

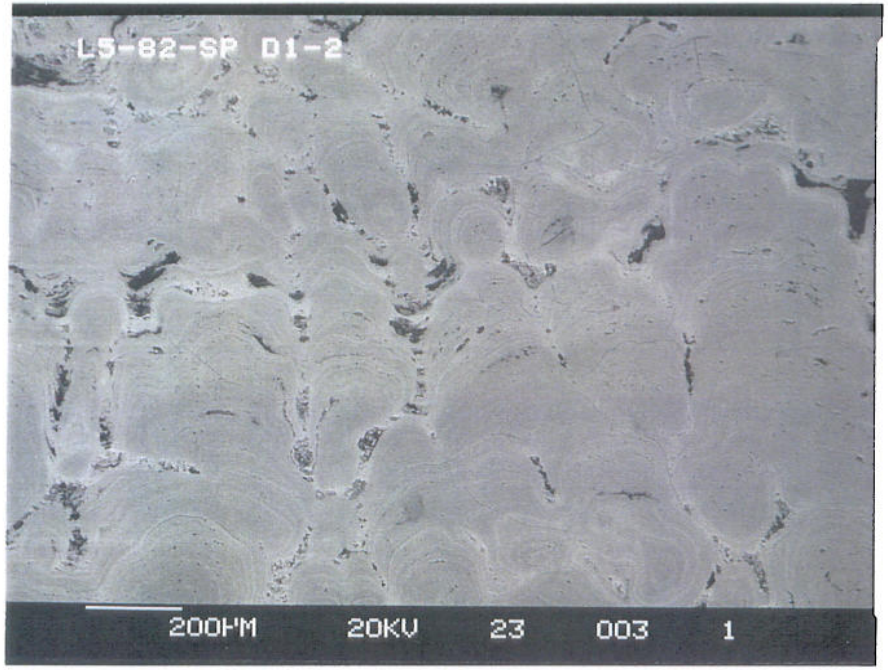


photo 2

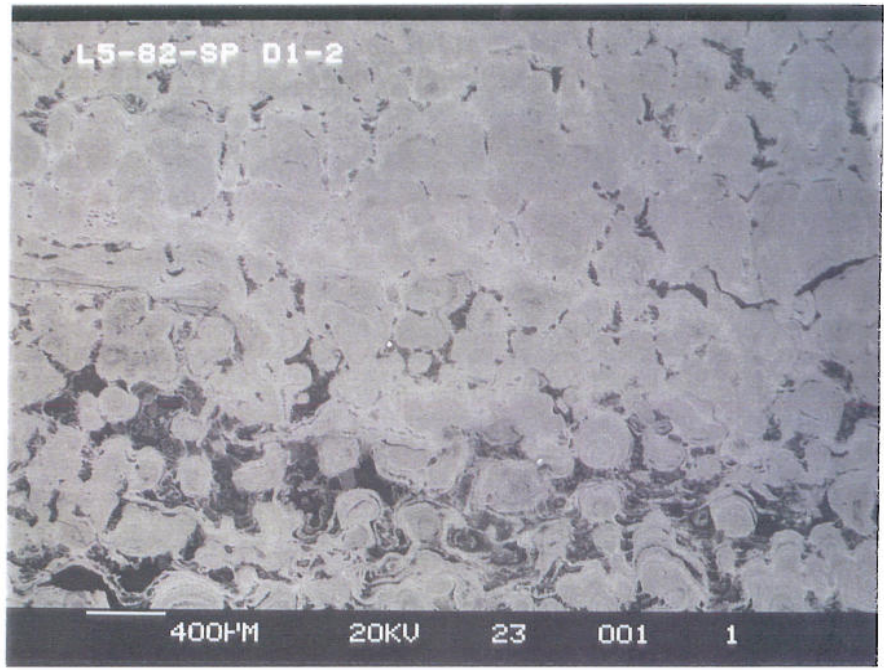


photo 4

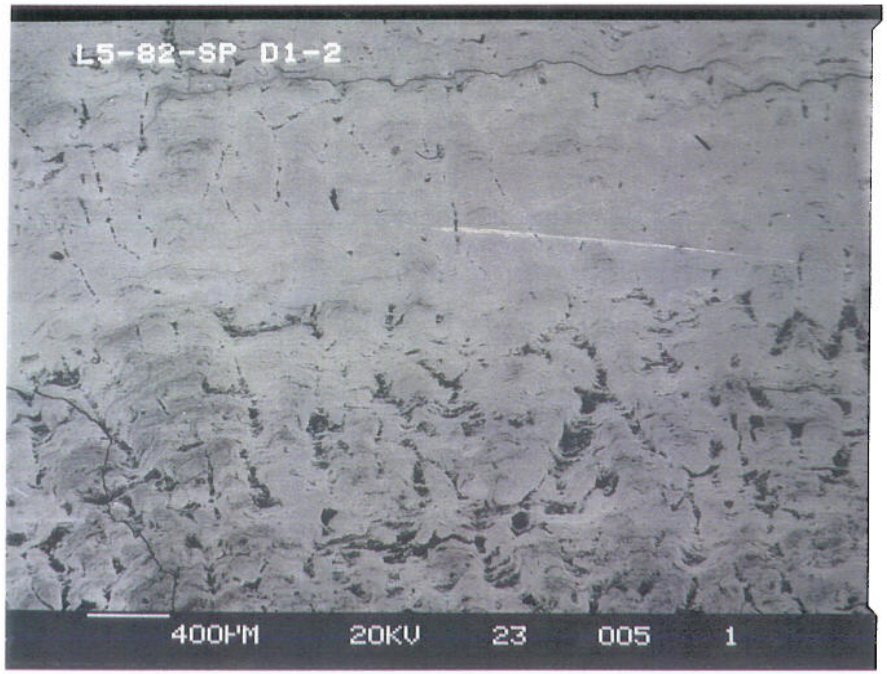


photo 1

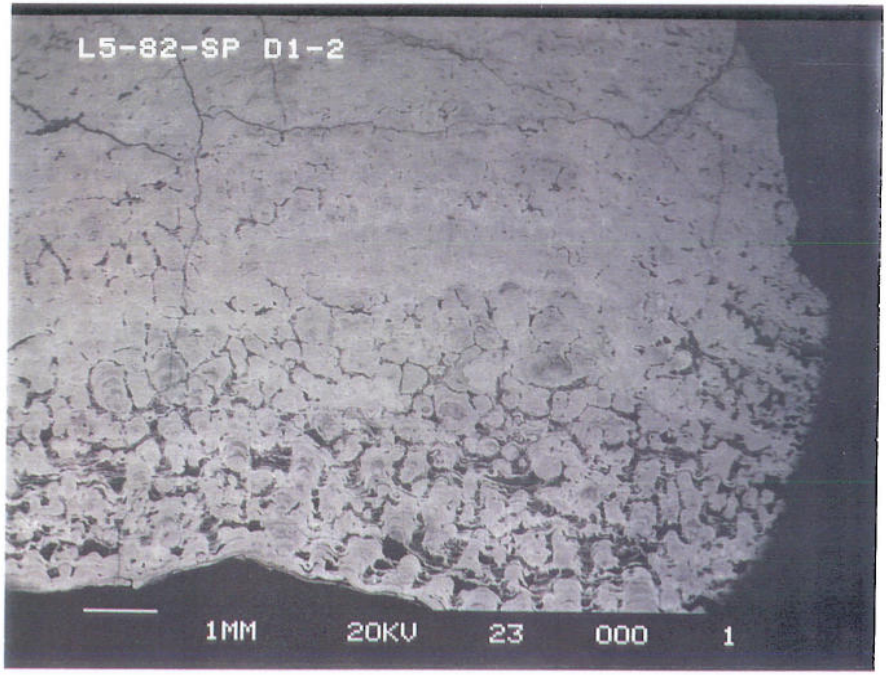


Photo 5

7-26-1984.

LS-82-SP. D1-2

photo 1 : General photo (right side)

chem : Mn, Fe, CA, Si, Ti, Si

upper one / lower

Fe > Mn, CA, Ti, Si.

brightest line / botryoidal core

Fe > Mn, Ti, CA, Mg, Si.

lowest line / Fe >> Mn (Ti) CA, Si.

upperest line / Mn : Fe, CA, Ti Si, Mg.

photo 2 : center. boundary between 2 generations

photo 3 : Many photo 2.

botryoidal connection

photo 4 : left side : boundary upper an lower chem.

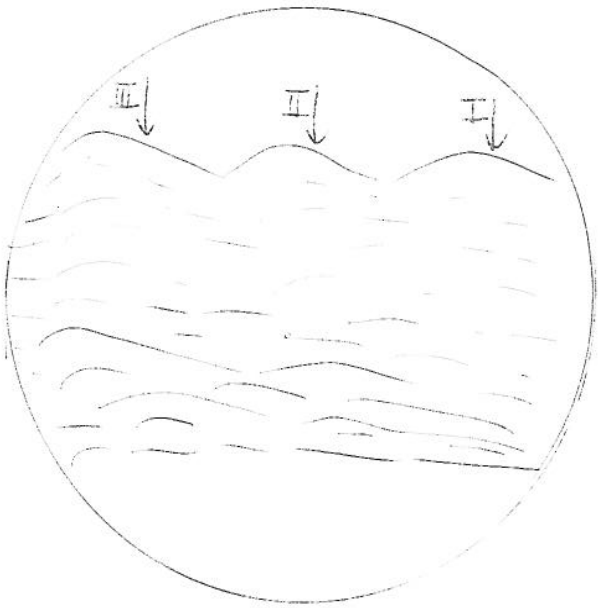
granular: Fe. (Mn), Ti, C

chem: Mn, (Fe). CA. thickness 2 microns

photo 5 : Mn layer / bottom.

Mn layer thin accordion / fibrous

P1-2



I: two sequence change / by porosity distribution

II: two sequence change / by erosion base

III: two sequence change / by chemical property.
upper (Fe-rich) ?

SEM

I : two sequence shape
by porosity distribut
(papulet)

I : two sequence shape
by erosion line

II : two sequence shape
by chemical properties
upper (Fe-rich) 2.

- Two quite different botryoidal population in the crust with indistinctive boundary
- SEM investigation
  - high, dense botryoids
  - high porosity, weaker population of botryoids
  - discontinuity (many)
  - cavity filling substances characteristics (organism / grains / etc) in lower part.

→ different seawater environments evidences

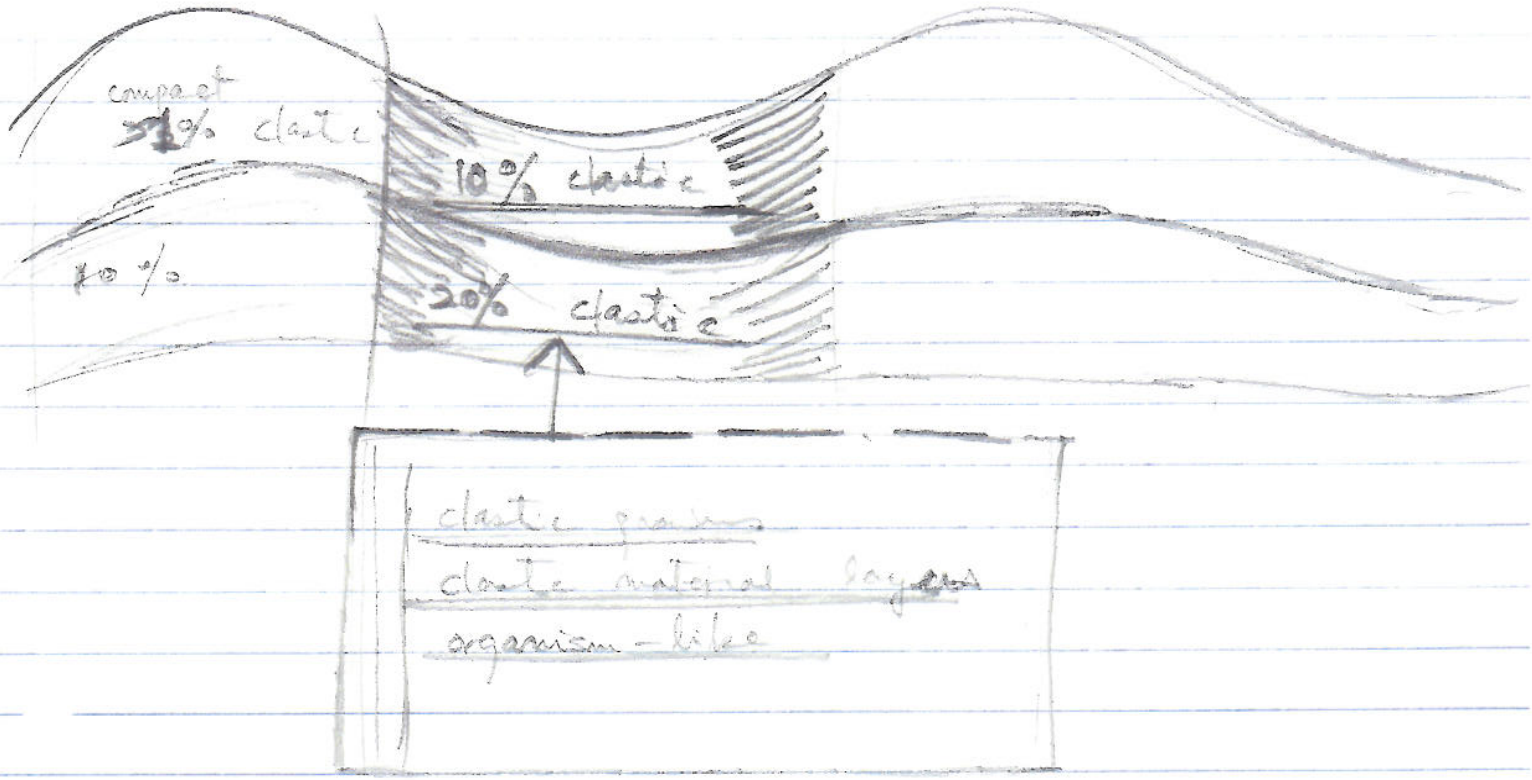
* gradually
form disc
recent (
two times
without any

~~discontinuity~~

* give different optical properties
upper show more white
(Fe or Mn)

← discontinuity without any changes
exist several time discontinuity ↑
valley area fill with
clastic materials : silicate grains,
organism - like forms,
sometime clastic materials
present ~~show~~ ~~seems like~~
as layer. and irregularly
alternate with Fe-Mn layer and
clastic layer

However, deposits formed in the environments
of highly deposits of clastic materials, even in the layer
↑ each
of Fe-Mn deposit (botryoids)


compact
10% clastic
10% clastic
20% clastic
clastic grains
clastic material
organism-like

5x10x0.8 . L5-82-SP. D1-2

bathysiphonal growth
compact
small pores

← ? (unclear boundary).

bathysiphonal growth
high porosity

L5-82-SP. D1-2

thick 8-9 mm