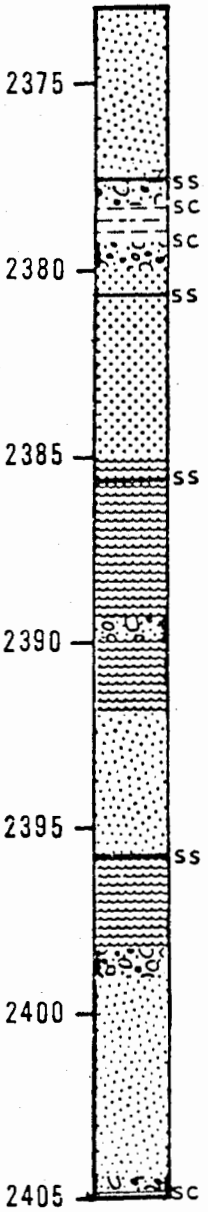
JACKSON BROS. PERRIER NO. 2
17-25S-9E



large scale planar inclined bedding

iron nodules and carbonaceous material
green-gray mottled silt
iron nodules, carbonaceous material and dark gray mud clasts

massive sandstone with occasional ripple forms

small scale asymmetrical current ripples

iron nodules and carbonaceous material
small scale asymmetrical current ripples

large scale inclined planar bedding

small scale asymmetrical current ripples

iron nodules, mud clasts, and carbonaceous material

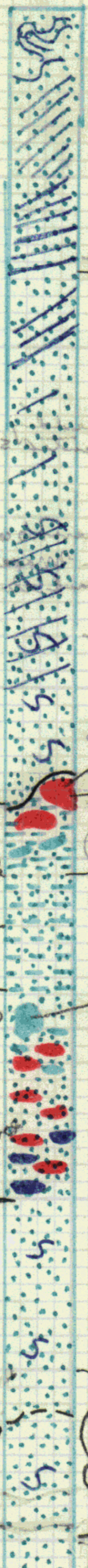
large scale inclined planar bedding

disturbed bedding
dark gray to black mud clasts, iron nodules, and pyrite
black carbonaceous rich shale

Jackson Bros.
Ferrier #2

Should make a good exhibit for TS

/ possibly x ray for bioturbation



2373

contorted bedding outlined by carbonaceous material. Sand, vF, subangular, 1/2% mica, low Fe concentration, cont. common

very high < 11 planar bedding hi angle due to over compaction?

2374

med to low < 11, planar bedding

— may be trough like or one set prograding over another

2375

generally a massive sand with a hint of inclined bedding

Sd, vF, subr, mod sorted, 1% mica little carb or Fe

2376

2377

yellowish brown

sharp contact

Fe nodules in black carbonaceous silt rip up clast. bedding within clast seems contorted

2378

possible diag

— massive siliceous ss perhaps a little coarser same sd as 2375-76

poorly laminated gray-green mottling micaceous carbonaceous, siltstone bedding follows cores mottling seems to be different colored clasts - may be burrowing may be lustery - pyritic or Fe sulphide

sharp

rip up clast of older overbank or channel deposit - evidence of migration? also Fe alteration. Clasts are of all types of orientation - slumping

2379

sequence

2380

2381

sharp? contact

discontinuous series of ss + black carb silt

2382

discontinuous interval. I believe that there was an interval similar to 2377 6" 2379 w/out the Fe influence

prograding small scale ripples faintly outlined w/ silt wisps & carb material
Same sd as 2375-76!

VF sd.

Massive sandstone

prograding ripples generally in one direction (small scale) outlined by silt wisps & carb material

washed out or low amplitude irregular forms on generally low ∠ inclined planar of bedding, (more heavily outlined w/ pyrite - reddish brown Fe mineral - carb material - may actually be deformed ripples

black metallic sulfide

more carb material

Sand is vf subangular, well sorted w/ trace of mica. Fe & Carb concentrated in wisps

forms of ripples may be a function of changing flow conditions - may be transition ripple & dune - seems to be larger scale yet very closely spaced x bedding

definitely ripples

may reflect a period of very low H_2O stand & leaves falling in bed

irregular crinkly parallel bedding, closely spaced abundant carb material & mica interlaminated w/ sandstone as w/ black lustrous sulphide, pyrite & reddish brown Fe w siderite blebs!

prograding ripples outlined by silt & carb material - also pyrite & siderite blebs

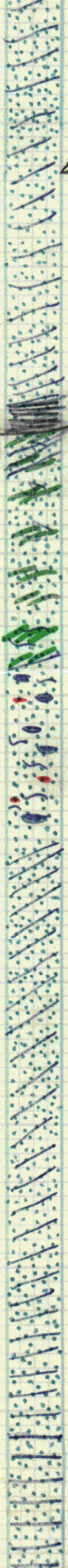
generally low ∠ inclined planar parallel bedding outlined by silt & carbonaceous material w/ pyrite nodules & siderite blebs. Some of bedding has wavy bedding on tops ripples?!

prograding ripples

these seem to be forming in complexes either as ripples on top of dunes or ripples as out of equilibrium flow adjustment on top of dunes

larger scale cross laminations outlined by carbonaceous material also w/ reddish brown Fe cement

Sd VF subangular Fe cement common
Carb material concentrated in [illegible]



2394

somewhat contorted throughout
slumping or compaction wisps at all
types of angles

Sd very fine, subang, mod sorting Fe +
Carb material concentrated in laminae
outlining parallel inclined bedding

2395

✓

closely spaced ∥ planar low ∠ inclined
laminated w ass red brown Fe

2396

Scour

prograding ripple forms

generally prograding ripples

2397

← prograding asymmetrical ripples
w abundant cutting w/ interspersed
larger scaled bedding

2398

zone of minute Fe silt clasts w/
lumpy horizontal bedding

crinkly carbonaceous wisps - looks
like graded bedding maybe a
burrowed zone?

I think it just
represents local lull in flow

2399

∥, planar inclined bedding generally
faintly outlined by carbonaceous
material - generally flattens out as
approach base of sand.

Sand is vf, subangular moderate sorting
~1/2% Mica. low in Fe + Carb outside of
inclined laminae

2400

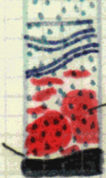
2396-2405
may be a sequence
rather 86-96 another flood
like event or they may reflect
changes in discharge due to
seasonal variations w/o flooding
events - probably the latter

2401

2402

2403

2404



low amplitude irregular bedding & slumping?
of contorted-crushed clasts

larger ripup clasts w/ associated iron cements, & compaction & contortion - assoc. pyrite

coal or carbonaceous material w/ included gray silt clasts

look on bedding planes?

might make a good candidate for TS

2 overall sequences in core

#1 is lower part of sequence -