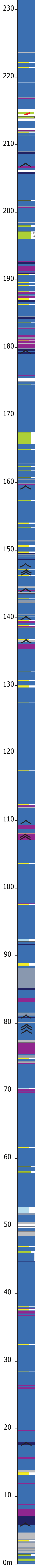


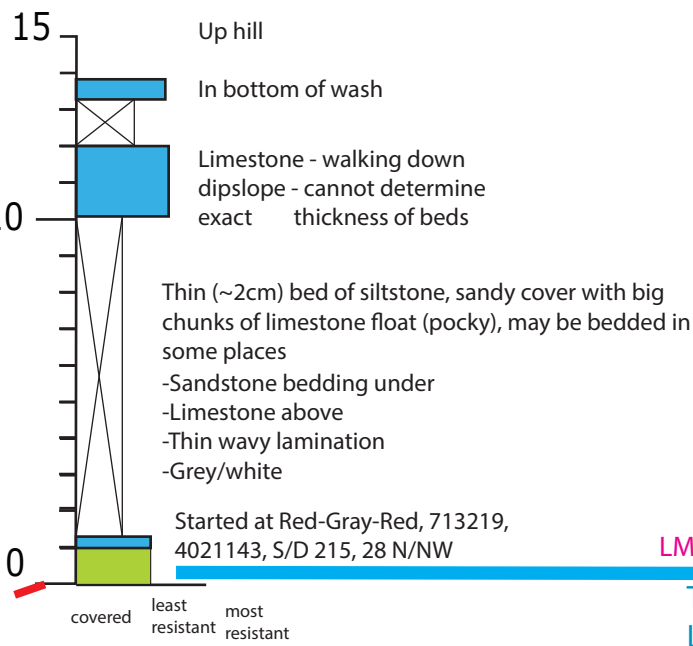
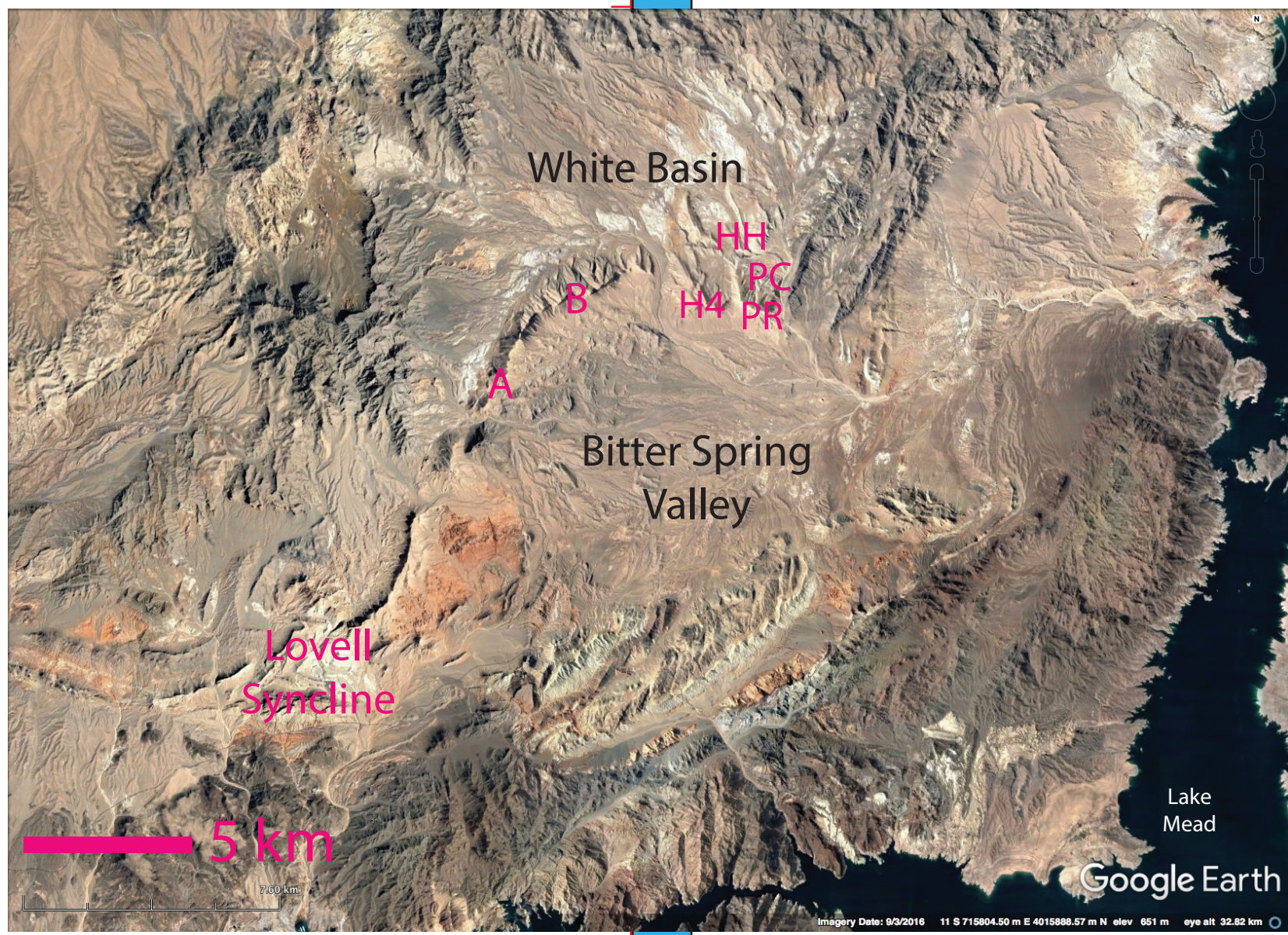
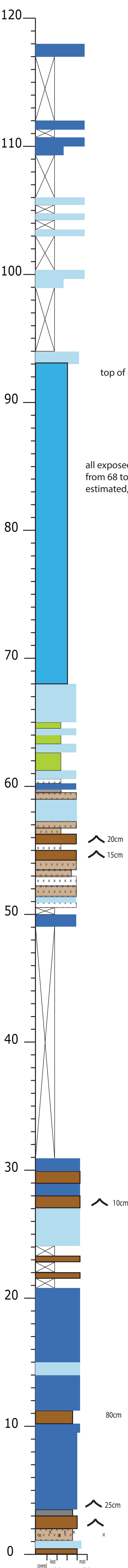
Lovell Wash Syncline Area

Bitter Ridge Limestone Sections



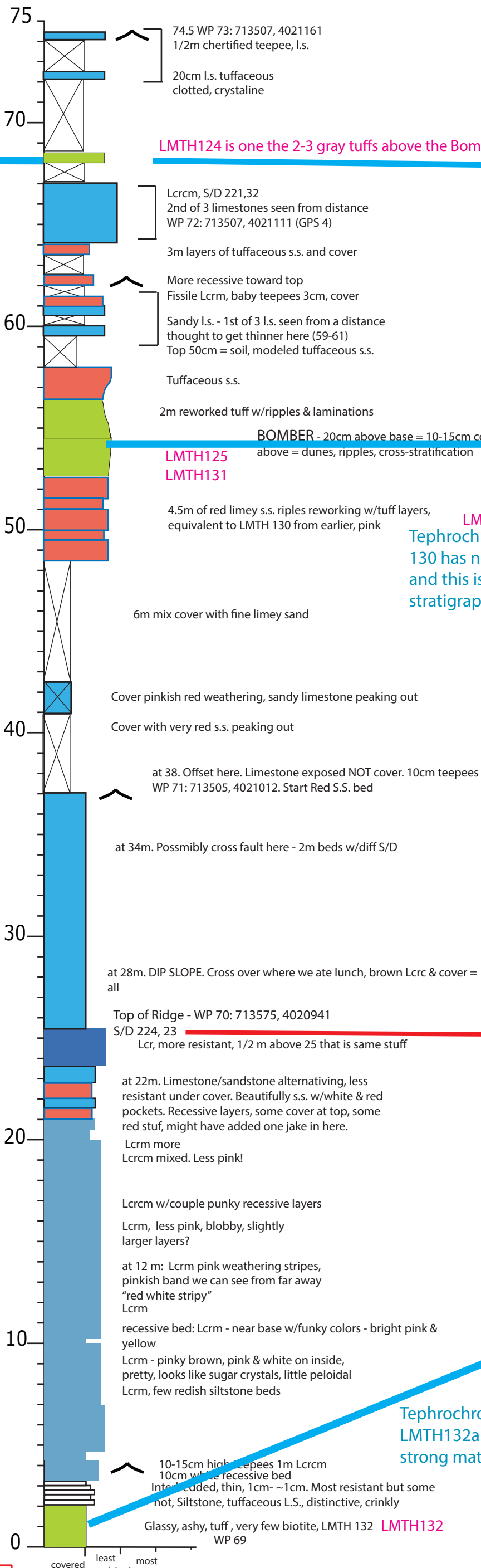
Correlation based on tephrochronology and stratigraphy
Correlation based on stratigraphy
Correlations dashed where less robust

Area A



Tephrochronology results:
LMTH122 and LMLL216-218 match

B



Tephrochronology results:
LMTH132 and LMLL219 strong match

Tephrochronology results:
LMTH130 has no match and this is works stratigraphically

Tephrochronology results:
LMTH124 is one the 2-3 gray tufts above the Bomber

Tephrochronology results:
LMTH125 and LMLL211 and LMLL 221 strong match

Tephrochronology results:
LMTH132 and LMLL219 strong match

Tephrochronology results:
LMTH130 has no match and this is works stratigraphically

Tephrochronology results:
LMTH124 is one the 2-3 gray tufts above the Bomber

Tephrochronology results:
LMTH125 and LMLL211 and LMLL 221 strong match

Tephrochronology results:
LMTH132 and LMLL219 strong match

Tephrochronology results:
LMTH130 has no match and this is works stratigraphically

Tephrochronology results:
LMTH124 is one the 2-3 gray tufts above the Bomber

Tephrochronology results:
LMTH125 and LMLL211 and LMLL 221 strong match

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LMTH132 and LMLL219 strong match

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LMTH124 is one the 2-3 gray tufts above the Bomber

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LMTH125 and LMLL211 and LMLL 221 strong match

Tephrochronology results:
LMTH132 and LMLL219 strong match

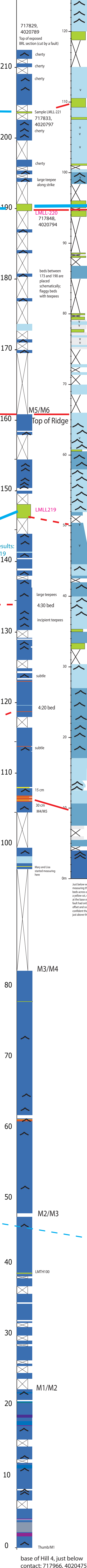
Tephrochronology results:
LMTH130 has no match and this is works stratigraphically

Tephrochronology results:
LMTH124 is one the 2-3 gray tufts above the Bomber

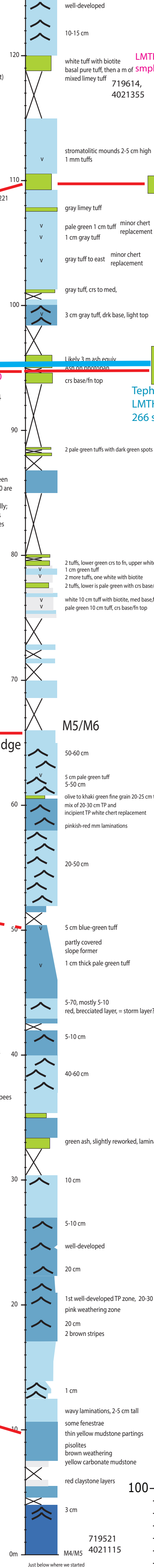
Tephrochronology results:
LMTH125 and LMLL211 and LMLL 221 strong match

Tephrochronology results:
LMTH132 and LMLL219 strong match

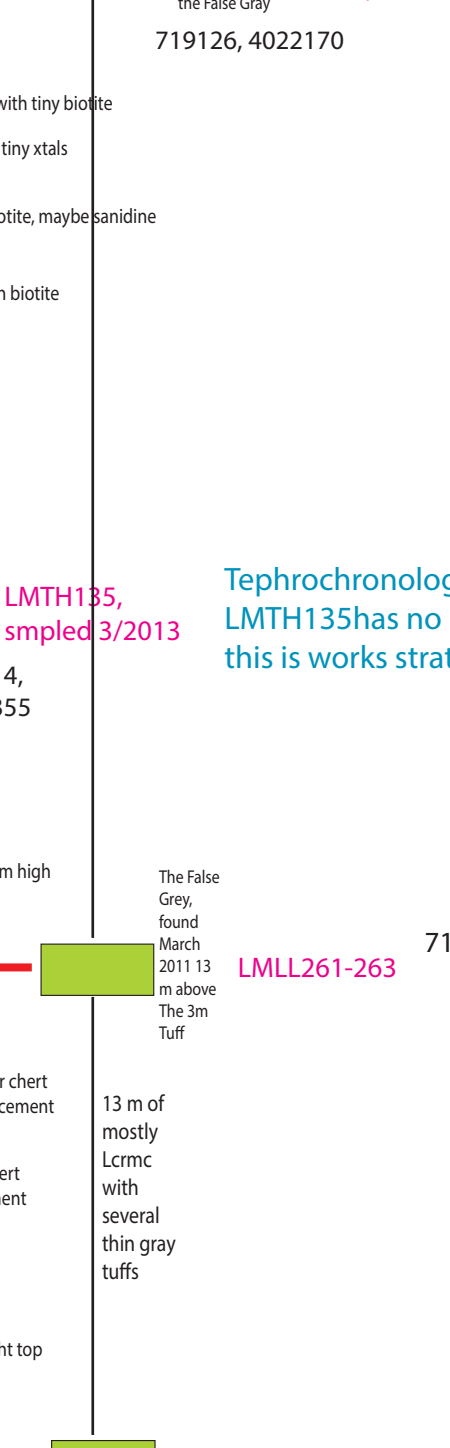
H4



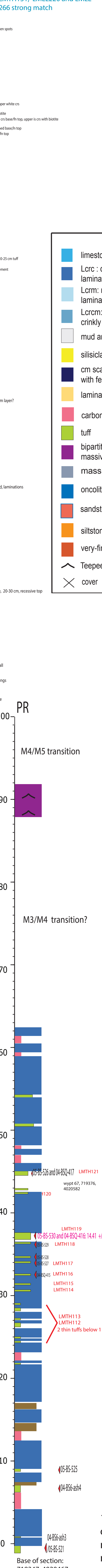
PC



HH



PR



13.86 Ma calculated age of top of Brl using sedimentation rate of 377 m/My

sedimentation rate
13.89+/- 0.20

Going from 14.41 to 13.89 = 196 m in .52 My = sed rate of 377 m/My

- Legend
- limestone undifferentiated
 - Lcrrc : cm scale crinkly laminated limestone
 - Lcrrm : mm scale crinkly laminated limestone
 - Lcrrcm : mixed mm and cm scale crinkly laminated limestone
 - mud and limestone
 - siliciclastic mudstone
 - cm scale crinkly laminated limestone with fenestrae
 - laminated evaporite
 - carbonate mudstone
 - tuff
 - bipartite beds: lower part laminated to massive with upper part very porous
 - massive limestone
 - oncolitic limestone
 - sandstone
 - siltstone
 - very-fine sandstone
 - Teepees
 - cover

these four units are all almost identical

14.50 Ma calculated age of start of Brl using sedimentation rate of 377 m/My

14.41+/- 0.10