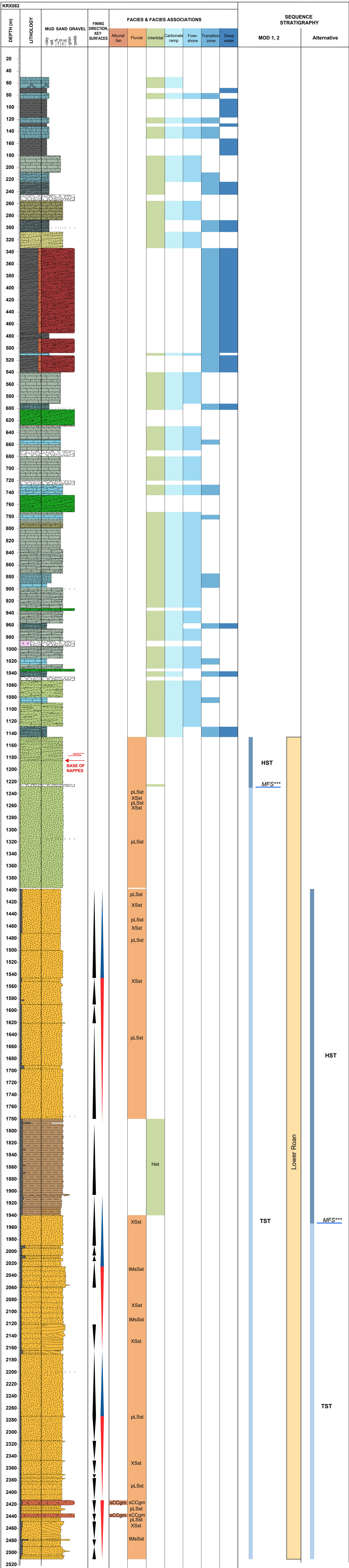


Supplementary materials:

1. Stratigraphic logs of the 8 cores that were used in the subsidence analysis in this study and informed stratigraphic interpretations (this document)
2. Type logs for each core used in the subsidence analysis in this study, showing a best-estimate of the full Katangan stratigraphy prior to basin inversion and erosion
3. Example backstripping spreadsheet of core KN192 showing workflow used to decompact and backstrip the type log of the Konkola area











- LITHOLOGIES**
- Stromatolitic silty carbonate
 - Interbedded shale and silty carbonate
 - Silty carbonate
 - Shale
 - Schistose diamictite
 - Sandy carbonate
 - Anhydrite
 - Interbedded (meta)carbonate and (meta)sandstone
 - Carbonate
 - Carbonate-bearing metasandstone
 - Pelitic carbonate
 - Breccia
 - Metasandstone
 - Interbedded sandstone and shale
 - Conglomerate
 - Sandstone
- TEXTURE, FABRIC**
- Schistose or intensely folded



[illegible]

KADD04								
DEPTH (m)	LITHOLOGY	MUD SAND GRAVEL	FINING, SHALLOWING, DEEPENING DIRECTION, KEY SURFACES	FACIES & FACIES ASSOCIATIONS			SEQUENCE STRATIGRAPHY	
				Fore-shore?	Transition zone	Deep water, glacio-marine		
10								
20								
30						CaSI	CaSI	LST
40								
48					wLSst?	wLSst?		
50								
60								
70								
80								
90						CaSI	CaSI	
100								
110								
120								
130								
140								
150						LSI	LSI	
160								
170						CaSI	CaSI	
180								
188					wLSst?	wLSst?		
190								
200								
210								
220								
230								
240								
250								
260								
270						CaSI	CaSI	
280								
290								
300								
310								
320								
330								
340								
350						CaMs	CaMs	
360								
370								
380						LSI	LSI	
390								
400						CaMs	CaMs	
410								
420								
430								
440								
450						LSI	LSI	
460								
470								
480								
490						dMs	dMs	
500								
510						LSI	LSI	
520						SIMs	SIMs	
530						LSI	LSI	
540						SIMs	SIMs	
550						LSI	LSI	
560						pLCa	pLCa	
570								
580						cpDia	cpDia	
590								
600								MFS*** ?
610							dMs	
620								
630						CaMs	CaMs	
640								
650						MCa		
660						vLCa		
670						MCa		
680						pLCa		
690								
700						vLCa		
710								
720								
730						MCa		
740								
750								
760						pLCa		
770			U?			crDia	crDia	
780								
790								

LITHOLOGIES

- | | |
|---|--------------------------|
|  | Conglomerate |
|  | Silty mudstone |
|  | Silty limestone |
|  | Limestone |
|  | Cross-bedded sandstone |
|  | Wavy laminated sandstone |
|  | Siltstone |
|  | Shale, mudstone |
|  | Diamictite |
|  | Andesitic basement |

U: unconformity surface

U**:** erosive base, lithology juxtaposition, oxidised, coarse grain size

U**:** erosive base, lithology juxtaposition, oxidised, coarse grain size

U*:** erosive base, lithology juxtaposition, coarse grain size

MFS:** lithological juxtaposition, facies stacking

[illegible]

[illegible]