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**Expressions of Forced Regressions and Sequence Boundaries in the Miocene of Provence,
(Southeast France Basin)**

Ten depositional sequences constituting the second order Neogene transgressive-regressive cycle are exposed in South-East France along the Mediterranean coast. Their ages fit with the Haq et al. (1987) chart. We will document here, the expression of forced regression units and emergence surfaces associated to some sequence boundaries. The two first forced regression units respectively occurs in the latest Oligocene and Lower Aquitanian depositional sequences. Surprisingly in both cases, they consist of reef complexes which are in turn emerged. They can rest on the underlying outer shelf siltstones with an erosional surface. Then the reefs are capped by a transgressive wave ravinement surface. Two other examples of forced regressions occur in siliclastic deposits. The first one is associated to the Upper Burdigalian sequence and consists of shoreface to beach sandstones sharply resting over outer shelf shales and then is subaerially exposed. The sequence boundary is also outline by an associated weathered horizon of regional extension which affects all the underlying prograding high stand deposits. The second is latest Burdigalian. Once again, a sharp base shoreface including lunate megaripples and a beach face rest over outer shelf shales. Laterally when this forced regression unit is missing, an incised valley occurs. On the interfluvium, a spectacular weathered interval is developed in the underlying shoreface sands of the HST. In conclusion, emergence surfaces with associated weathering are developed either on top of the prograding high stand units or on top of forced regression wedges and are preserved when ravinement surfaces are not deeply erosional.