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Paleohydrology and Paleoenvironments at Bir Sahara: Pleistocene Lithostratigraphy and Sedimentology in the Southern Egyptian Sahara

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Highlights

- Pleistocene deposits at the Bir Sahara depression contain a record of Pleistocene hydrologic and environmental change
- The sedimentary sequences contain Paleolithic (Acheulian and Middle Paleolithic) artifacts and fossils (vertebrate, invertebrate)
- Sedimentary lithofacies show horizontal and vertical variation documenting hydrologic and environmental changes in shallow deflational basins
- Rising groundwater led to sedimentary deposition, filling the deflational basins
- The sedimentary and stratigraphic record indicates marshes, ponds and shallow lakes were present during wet climate periods during the Middle and Late Pleistocene

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