Documentation of potential geological evidence from the body of a vehicle involved in an alleged carjacking and disappearance of a child

Geoarchaeology and Soil Science

Geological and pedological processes of formation affect the ante-, peri-, and post-deposition of artifacts or evidence. Areas of geotaphonomy such as Stratification, Bioturbation, Compression/Depression, and Sedimentation are fundamentals of geology. An understanding of geological, pedological and hydrological processes must extend beyond the immediate crime scene feature to the surrounding environment. For example, information that a victim’s body was buried near a river ten years ago, is greatly supplemented with an understanding of the effects of soil formation, erosion, and hydraulics in a flood plain environment. Although every site will be unique, there are basic principles of stratification, superposition, and contemporaneous deposition, which have served as tenets of geology and archaeology since the seventeenth century.

The impact of burrowing animals, and even earthworms, (Bioturbation), on buried objects is well documented. An awareness of the terrestrial and subterranean fauna inhabiting crime scene environs may be essential in understanding the formation and or disruption of soils containing primary, associated, and trace evidence. For this reason the reader is directed to “Reconnaissance, Surveys, and Mapping Techniques” for general guides to the types of fauna which might inhabit a particular crime scene area. Likewise, the subsection of "Scavenging" within the section on "Taphonomy" contains references to subterranean animals which directly impact buried evidence and the subterranean feature in which they are contained.

This section contains references directly and indirectly addressing soil sciences including the recognition and interpretation of soils in archaeological contexts - geoarchaeology. Of interest, from the standpoint of trace evidence, are those references to cases in which geoarchaeology has been utilized not only to understanding soil formation/alteration related to buried evidence, but in identifying once buried items via trace soil evidence (ie. Adovasio, et al. [1991]). It has been the experience of the compiler that forensic scientists are generally unfamiliar with work accomplished on, and toward the interpretation of, traditional archaeological sites. Most forensic references in forensic geology concentrate on laboratory techniques and analyses, rather than formal archaeological collection of geological and pedological samples/evidence. Therefore, this section occasionally references archaeological site reports, or journal articles, citing specific site interpretations and the techniques used in those interpretations. The reader is also referred to "Stable Isotope Analyses" in as much as soil sampling is necessary for comparison purposes.

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