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NMSOP chapter on analog seismogram processing

The *New Manual of Seismological Observatory Practice*, **NMSOP**, is a compendium of seismological knowledge needed to run seismic networks and observatories. It is intended to facilitate the use and analysis of digital data acquired by seismic networks with a general focus on modern systems. Nevertheless, most of the Nuclear Explosions that occurred in history were recorded on analog seismograms, and younger generations of researchers without experience on how to use analog formats are at risk of losing access to the valuable information they contain. The collection and compilation of the knowledge needed to use these analog seismograms and bring them into the digital age is time critical as some original supports are degrading and the number of researchers familiar with them is continuously decreasing. In 2023, the CoSOI of IASPEI agreed to complement the NMSOP with a chapter devoted to *legacy seismic data*. It is intended to give new users the basic knowledge required to enable their use for research and to help facilitate their preservation and digitization. We will present the first version of this chapter, which reviews analog seismogram morphology, time accuracy and correction, instrument transfer function determination and needed trace corrections for digitization and provide key bibliographic references.

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