THE ATMOSPHERIC AND OCEANOGRAPHIC
INFORMATION PROCESSING SYSTEM (AOIPS)

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The AOIPS is an interactive, mini-
computer-based processing and display sys-
tem that is used primarily for image data
analysis and information extraction
operations within the Applications Direc-
torate at NASA's Goddard Space Flight
Center. The AOIPS contains several unique
subsystems including a state-of-the-art
image display and analysis terminal, a
high density tape unit capable of storing
1.4 X 10^10 data bits on each reel of mag-
netic tape and a unique video switching
unit. The system configuration is discus-
sed with emphasis on salient characteris-
tics of the various hardware components.
System and application software packages
are described with emphasis on the unique
image processing and information extraction
capabilities provided. Examples are pre-
sented of system output products from appli-
cations in meteorology, oceanography and
earth resources.