National Mapping Program
Technical Instructions

Standards for Digital Orthophotos

U. S. Department of the Interior
U.S. Geological Survey
National Mapping Division

PREFACE

This document establishes the technical criteria to be used in production of digital orthophotos (DOQs) for USGS partners in the National Digital Orthophoto Program (NDOP) and other USGS cooperative agreements. Information in this document is integrated with other National Mapping Program Technical Instructions and specifications for data specific metadata by the Federal Geographic Data Committee (FGDC). Also defined are requirements for the collection, processing, and quality control of digital orthophoto data entered into the National Digital Cartographic Data Base (NDCDB).

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Standards for Digital Orthophotos

SUMMARY OF CHANGES

Complete revision 12/96

A complete revision of the Standards for Digital Orthophotos was undertaken to change both format and content of the digital orthophoto quadrangle (DOQ) header, revise technical standards for overedge imagery, and include color-infrared and true color DOQs as standard products. Changes from unlabeled data fields to keyword fields in the header make the information easier to understand while complying with mandatory file specific requirements of the Federal Geographic Data Committee's "Content Standards for Digital Geospatial Metadata." Editorial changes were also necessary to clarify the text. Previous changes have been incorporated in the revision.

Change 8/93 to Part 1 and Part 2

Allowable scanning resolution was increased to 32 μm. Overedge imagery beyond both the primary and secondary horizontal datum corner points can range from a 50 meter minimum to 300 meter maximum. These changes facilitated the participation of additional cooperators in the DOQ cost share program, yet ensured that DOQs continued to meet National Mapping Division's needs for digital line graph revision. Additional header metadata was required to describe compressed data.

First USGS National Mapping Program Standard for Digital Orthophotos was released in July, 1992.

LIST OF PAGES

A complete and current copy of the preliminary pages of "Standards for Digital Orthophotos" consists of the pages (and most recent creation or revision dates) listed below.