

GCMRC Library Scanning Project



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Introduction

The GCMRC is in the process of converting its collection of rare and one-of a kind materials to digital format including

- Aerial Photographs
- Funded Research reports (Gray literature)
- Videotapes
- Slides
- Photographs
- Maps

This will serve to preserve the original media as well as allow for greater distribution of data over great distances.

Media Types and Methods

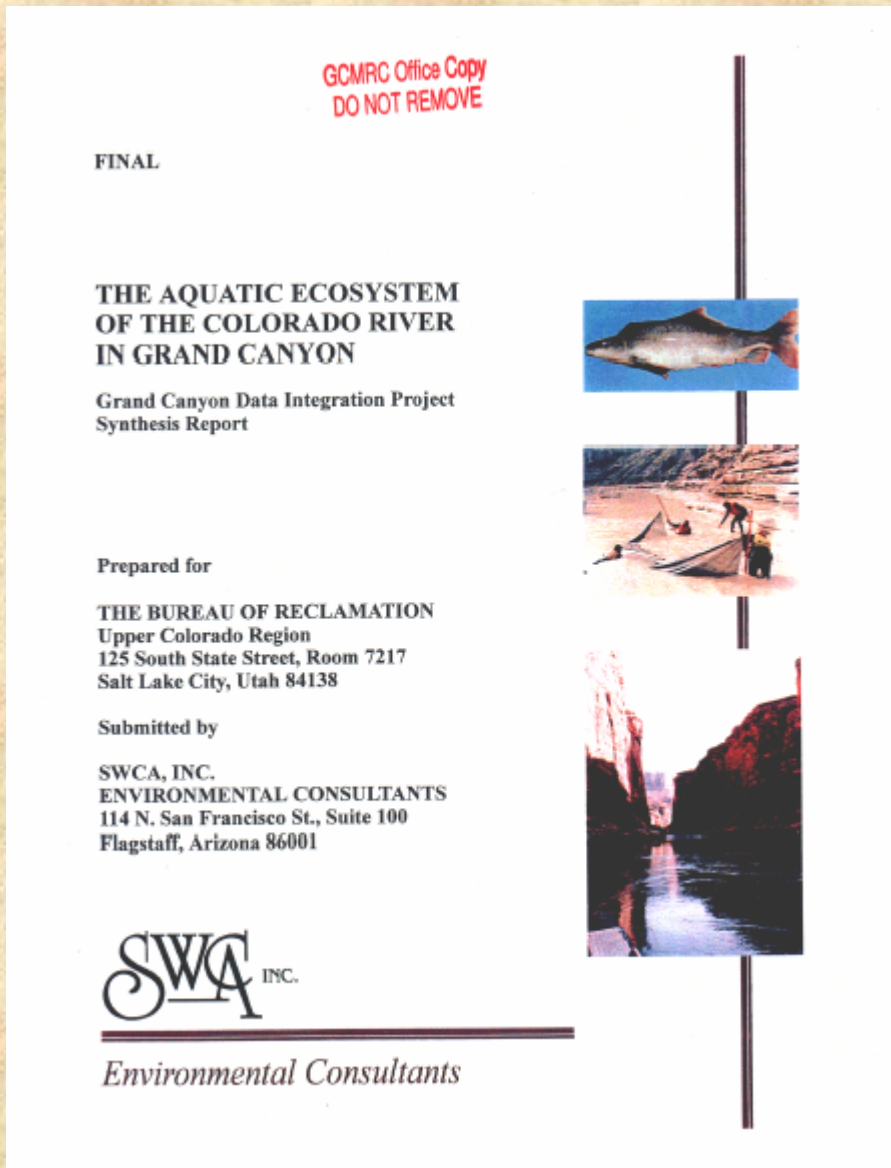
- Non-proprietary
- Industry Standard
- Preserves the integrity of the information contained in the hardcopy media
- Loss-less compression

Aerial Images

- Inventory: 17,652 images (photos and film)
- Equipment: Vexcel UltraScan 5000 photogrammetric scanner
- Methods: Photos will be scanned and metadata created
- Formats: tifs (images) and xml (metadata) files
- Archiving: files saved to DVDs – deep archive copy saved offsite
- Media: DVD
- Resolution: 14 microns
- Distribution: Through the GCMRC library and on-line



Funded Research Reports



- Inventory: 813 gray literature research reports
- Equipment: Canon HP DR-5080C Col 910 Text Scanner
- Methods: Reports disbound and scanned
- Formats: pdf files
- Archiving: Part of GCMRC backup structure
- Media: 8 mm tapes
- Resolution: 300 dots per inch (dpi)
- Distribution: GCMRC on-line catalog (website)

Videotapes

(helicopter overflights and programs and presentations related to Glen and Grand canyons)

- Inventory: 198 videos in VHS Format 521 in broadcast format
 - Equipment: Sony Umatic VP-9000 videocassette player, Panasonic AG-2400 VC, Pinnacle Pro-One Video Editing/Authoring System, Adobe Premiere Software
 - Methods: Videos are played on Sony or Panasonic and then digitized using the Pinnacle system
 - Formats: avi, tif and xml
 - Archiving: files saved to DVDs – deep archive copy saved offsite
 - Media: DVD
- Resolution: 720 X 480 pixels per frame
 - Distribution: Through the GCMRC library and on-line



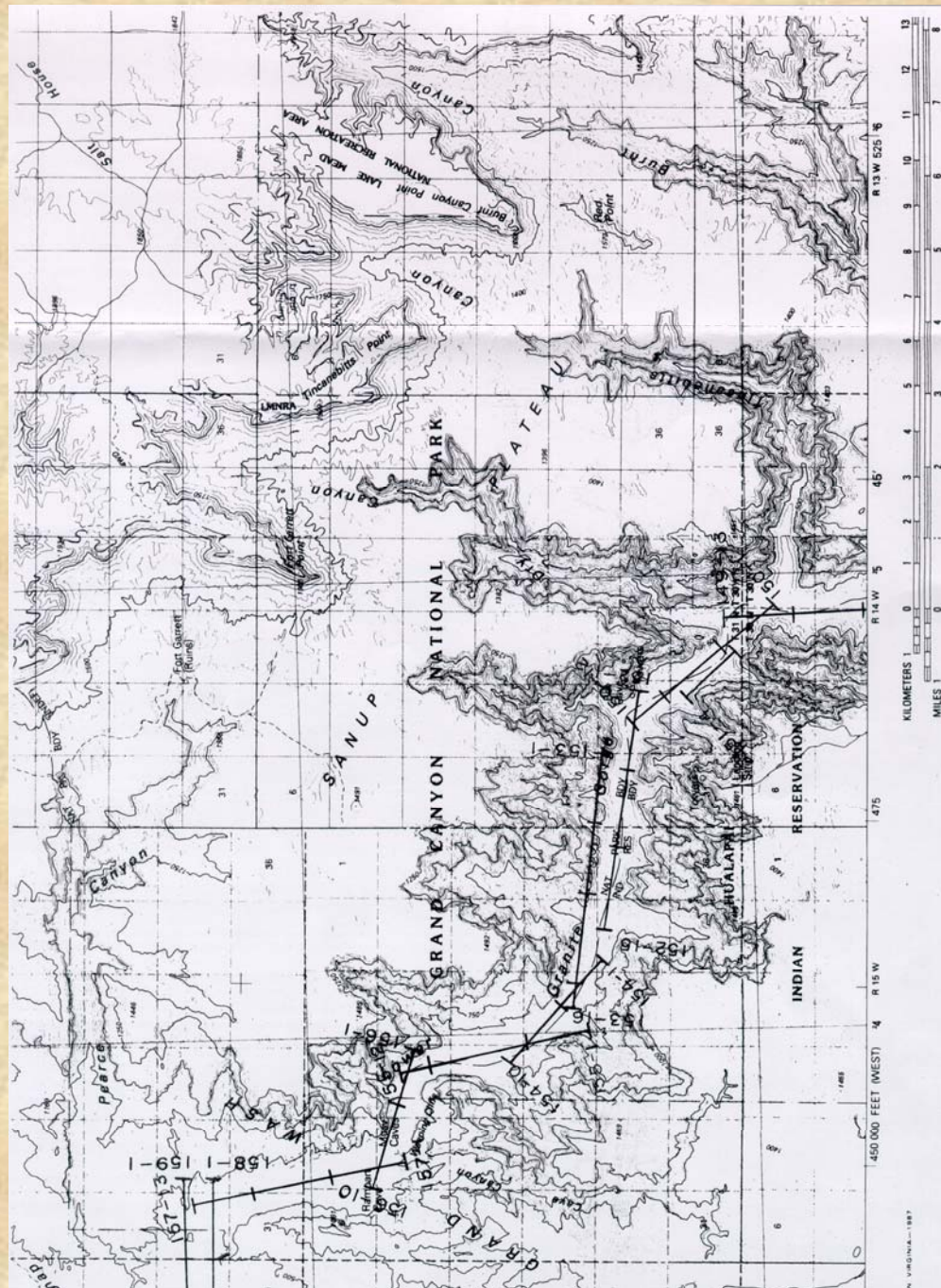
Slides and Photographs



- Inventory: 8000 slides, 700 photographs
- Equipment: Nikon Super Coolscan scanner, Canon CanoScan 9900F
- Methods – Slides and photos are scanned and then saved as tifs
- Formats – tif and Windows based metadata programs
- Archiving: files saved to DVDs – deep archive copy saved offsite
- Media: DVD
- Resolution 300 dpi (low resolution) 2700 dpi (high resolution)
- Distribution – GCMRC website

Maps

- Inventory: 60 flightline maps
- Equipment: Altek Datatab Pro Line Digitizer
- Methods: Maps will be digitized
- Formats: Arc/Info Coverages with xml metadata files
- Archiving: files saved to DVDs – deep archive copy saved offsite
- Media: DVD
- Resolution: N/A
- Distribution – GCMRC website



List of Products

Aerial Photos	17,652 tif and xml files saved to DVDs
Texts	813 pdf files linked to cataloging files to be accessed on line
Videos	6000 avi and xml files 1,200,000 tif files
Slides	8000 tif files (slides are scanned at 300 dpi) 8000 tif files (slides are scanned at 2700 dpi) 1 access spreadsheet with metadata
Oblique Photos	700 tif files photos are scanned at 75 dpi 700 tif files photos are scanned at 2400 dpi 1 windows based spreadsheet with metadata
Maps	60 Arc info coverages and metadata

Questions?

