Digitized Images from the Trust Territory of the Pacific in the UHCARL PAC Online Catalog at the University of Hawaii Libraries

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The University of Hawaii Libraries received a federal grant to acquire scanning and digitized image storage equipment. The Libraries will be utilizing prototype CARLterm retrieval software jointly developed by the Boulder Public Library and the Colorado Alliance of Research Libraries to preserve an important archival visual resource for Pacific researchers. The software links bibliographic records describing images with the digitized images themselves. Prior to digitization these photographs were not available for general research. A review of the progress of the project and a display of the images will be presented.

**History of TTPI Archives at University of Hawaii Libraries**

*Origin of Trust Territory of the Pacific Index.* The Trust Territory Archives is a microfilm record of the files of the U.S. Administration of Micronesia. After WWII, the islands of Micronesia became a U.N. strategic trusteeship, administered by the United States. This trusteeship came to an end in 1988. In the early 1980s the University of Hawaii Libraries participated in a program to preserve the records of the Trust Territory Government. Over 2,000 reels of microfilm were deposited in the Pacific Collection of the University of Hawaii Libraries. The index to the Trust Territory records were received on magnetic tape and reorganized into MARC format for loading into an automated online catalog system.

*TTPI on the ALOHA system.* The index to the archives, called "TTPI," was originally loaded as a separate database subsystem on the University Libraries former automated system, ALOHA. It was searchable via the same OPAC software, but switching between the main database and the TTPI database required logging out and logging back into a separate set of files.

*Transfer to UHCARL.* In 1989, when the library switched to the CARL automated system, the TTPI database was converted and loaded on the new Tandem computer. The CARL software has built-in support for easily switching between different PAC databases. TTPI became easily accessible from the same PAC menu as the main online catalog database.

*Visual materials in the Trust Territory collection.* The photograph collection of the Trust Territory Archives was also donated to the University of Hawaii and consists of an estimated 30-40,000 photographs and/or negatives and 2,000 slides. Records describing the photographs are included in the TTPI database, but collections of photos are indexed under general headings and by folders which may contain large numbers of images.

**Overview of Project Proposal**

*Boulder pilot project.* In August of 1990, the University Libraries became aware of a pilot project underway at Boulder Public Library to make digitized images of visual materials accessible on PAC workstations. The Archivist and other staff at Boulder Public Library were working with CARL Systems programmers to develop software interfaces between digitized images stored on an optical disk system and MARC cataloging text stored on the Tandem mainframe computer.

'Since the UH Libraries have a number of archival photographic collections, and there are visual materials collections of great historical interest in a number of public and private institutions in state of Hawaii, interest in a similar project was strong.'

**UH Libraries federal grant application.** In order to obtain the equipment and personnel that would be needed to undertake such a project, an HEA Title II-C federal grant, under the category "Strengthening Library Resources" was filed by the University Libraries in June 1991.

A revised budget requesting approximately $44,000 for personnel, $11,000 for student assistants, $53,000 for microcomputer, scanning, networking and optical storage equipment, and $15,000 for photographic equipment was submitted and approved.

**Initial Project Implementation**

*Funding and hiring.* Funding was released in October 1991. Research and request for quotes for equipment began at that time. The position of Project Manager was advertised and interviews held in November. Requests for purchase of the initial scanning equipment were submitted to the Library and University campus purchasing offices. The Project Manager started work in mid-January 1992.

*Scanning workstation.* The microcomputer, scanner
and software for the scanning workstation arrived and were set up in mid-January. The microcomputer is a 386/33 with 8MB of RAM, a standard VGA color monitor and a 200 MB hard drive. The scanner is a flatbed Umax brand (similar to Microtek300G). The scanning software is Picture Publisher Plus, running under Windows. The printer is an Acer IIIG laser printer, capable of producing printouts with better resolution and gray-scale than the standard laserjet type printer.

Experimentation and demonstrations. Although the procedures used at Boulder were available as “starter” documentation, a great deal of experimentation with scanning and cataloging procedures characterized the first 5 months of the project. Understanding how the CARLterm software worked in conjunction with the UHCARL PAC program and exploring the implications of cataloging practice with regard to record display and retrieval required time-consuming study and debugging.

In addition to getting the project underway, setting up processing procedures, learning the scanning and CARL Maintenance software, the Project Manager and the Library Systems Office staff were also called upon to demonstrate the embryonic system at a number of locations. The most prestigious occasion was at the March 5, 1992, reception honoring the former University Photographer, Mr. Masao Miyamoto, for over 40 years of service. The Miyamoto Photo Collection has been added to the University Libraries Archive collection and is a resource highly suitable for inclusion in a digitization project.

Current Status


Explanation of Image Linking Process

MARC tags in bibliographic record. Descriptions of each photographic image is entered as text in one or more 530 tags, subfield 3. The “filename” of the image (or last image if more than one is described in the bibliographic record) is entered in a separate 530 tag, in subfield d.

CARLterm and PAC. The CARLterm Image Display software reads the “filename” from the 530 tag and seeks the image based on the information encoded in the filename. The PAC program also “reads” the 530 tag, and displays a prompt on the option line at the bottom of individual bibliographic record displays which says “Image File Available.” The user then presses Alt-F2 and the CARLterm Image Display software will display the image to the screen of the workstation. The VGA display (640x480) and the 32-levels of gray at which the image is stored, results in a full-screen image which retains the detail of the original photograph and in some cases produces an image more easily studied than the original document.

Link between file server, workstation and UHCARL

The public microcomputer workstation, running CARLterm Image Display software is the link between the file server, which mediates multiple access to the optical disk storage system and the Tandem mainframe computer, which houses the bibliographic database and indexes.

Figure 1 shows a schematic of layout of Image Display System components, while Figure 2 is a menu map of UH CARL and PAC individual record displays.

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![Figure 1. Schematic of layout of Image Display Screen components.](image-url)
Figure 2. Menu map of UH CARL and PAC individual record displays.

MAIN MENU

ALOHA
Welcome to the UH CARL Public Access Catalog (PAC)

1. UH Manoa Library Catalog
2. UH System Library Catalogs
3. In-State Databases, Information and Library Systems
4. Out-of-State Libraries and Databases
5. Federal Gov't Publications and Colorado State Documents
6. UnCover -- Journal Article Access
7. ERIC -- Education Resources
8. UH Manoa Library New Titles Lists
9. UHM Library News, Calendars, Information and Policies

Enter the NUMBER of your choice, and press the <RETURN> key »

IN-STATE DATABASES, INFORMATION AND LIBRARY SYSTEMS

33. Hawaiian/Pacific 'UnCover' Journal Article Access
35. Hawaii Sheet Music Index
36. Trust Territory of the Pacific Database

Enter the NUMBER of your choice, and press the <RETURN> key »

SELECTION #36 under the heading
IN-STATE DATABASES, INFORMATION AND LIBRARY SYSTEMS:

SELECTED DATABASE: Trust Terr. Archives

The Trust Territory Archives is a microfilm record of the files of the U.S. Administration of Micronesia. The Archives at the University of Hawaii Library also include photograph, map, and audiovisual collections. The microfilm portion of the Archives is also available in each of the Micronesian nations and at the U.S. National Archives in Washington, D.C.

Enter N for NAME search
W for WORD search
B to BROWSE by title, call number, or series
S to STOP or SWITCH to another database

Type the letter for the kind of search you want,
and end each line you type by pressing <RETURN>

SELECTED DATABASE: Trust Terr. Archives

ENTER COMMAND (\? FOR HELP) >>

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EXAMPLE OF A SUMMARY DISPLAY OF RECORDS FOR DIGITIZED IMAGES:

1 Department of Public Palauan storyboard carvers UHM IMAGED - MFILM V10001 Reel 1756 F
2 Department of Public Palauan traditional leaders in saipan at hicom UHM 1973 MFILM V10001 Reel 1768 F
3 Department of Public Palauan traditional leaders in saipan at hicom UHM IMAGED 1973 MFILM V10001 Reel 1768 F

<RETURN> TO CONTINUE DISPLAY
ENTER <LINE NUMBER(S)> TO DISPLAY FULL RECORDS (Number + B for Brief)
<P>REVIOUS FOR PREVIOUS PAGE OR <Q>UIT FOR NEW SEARCH

====================================================================================================
PAC DISPLAY OF INDIVIDUAL BIBLIOGRAPHIC RECORD FOR DIGITIZED IMAGE(S):

AUTHOR(s): Department of Public Affairs Publication Division
TITLE(s): PALAUAN STORYBOARD CARVERS
B/W contact sheets; (4 imaged).
Photo 3 - Storyboard carver working on the right. (Neg. PA002-91).
Palauan storyboard carver at work demonstrating style in this traditonal art form, a mainstay of the handicraft trade. 1966.
Photo 1 - Storyboard carver, facing forward. (Neg. PA 002-89).
Photo 2 - Palauan storyboard carver, looking down. (Neg. PA 002-90).
Photo 4 - Storyboard carver working on the right edge. (Neg. PA 002-92).
Image File: AACA00001756.05

OTHER ENTRIES: Palau Information and Public Relations Films and Photographs
MARC RECORD DISPLAY OF INDIVIDUAL RECORD FOR DIGITIZED IMAGE(S)

000: 00536nam 2200121 a 45Y0
001: 67108874^a
008: 871007^a
035: 'aTTPI29126^a
099: 'aReel 1756 Frame NA^a
110: 20^aDepartment of Public Affairs^bPublication Division^a
245: 00^aPALAUAN STORYBOARD CARVERS^a
300: 1^a4 ^aB/W contact sheets; (4 imaged).^a
530: 1^aPhoto 3 - Storyboard carver working on the right. (Neg. PA002-91).^a
530: 1^aPalauan storyboard carver at work demonstrating style in this traditional art form, a mainstay of the handicraft trade. 1966.^a
530: 1^aPhoto 1 - Storyboard carver, facing forward. (Neg. PA 002-89).^a
530: 1^aPhoto 2 - Palauan storyboard carver, looking down. (Neg. PA002-90).^a
530: 1^aPhoto 4 - Storyboard carver working on the right edge. (Neg. PA002-92).^a
530: 1^dImage File: AACA00001756.05^a
651: 4^aPalau^xInformation and Public Relations^xFilms and Photographs^a

LIBRARY: UHM  IMAGED  CALL #: MFILM V10001 Reel 1756 Frame NA
----1---------------------------------- Trust Terr. Archives--------
<RETURN> to continue, <Q>UIT for a new search, or <R>EPEAT this display <X> for EXPRESS <H> for HISTORY ? for HELP >