

## 2nd EuroSDR Workshop on "Geoprocessing and Archiving of Historical Aerial Images"

Rome, December 5-6, 2022

via di San Michele 18 - Trastevere

ICCD Main building



# 5 Monday

9:00-10:30

Opening Remarks

ALL REPRESENTATIVES

### Updates from NMCAs and National Archives - 1

A mission over time: preserving and disseminating historical aerial images guarded by the National Geographic Institute (IGN) of Spain

L. MORAL | IGN-CNIG, SPAIN

Developments at the UK National Collection of Aerial Photography (NCAP) on the physical preservation and digital imaging of historic aerial photography

A. WILLIAMS | NCAP, UK

Historical aerial images as material objects: aspects of their deterioration and conservation strategy in AFN

D.S. PALAZZI AND M.G. D'IPPOLITO | AFN-ICCD, ITALY

10:30-11:00

Coffee break / Demo time

11:00-13:00

### Best practices in scanning and processing

Phase One Scan Station vs. high precision photogrammetric scanners - practical experience in performing aerial triangulation in everyday production environment

P. MEIXNER | PRIMIS, CZECH REPUBLIC

Rapid photogrammetric scanning and processing of aerial film archives

R. THOMAS | GEODYN, GERMANY

AFS150 - the new, fast photogrammetric scanner for analog airborne imagery

W. ALEITHE | 3DALEITHE, GERMANY

Digitizing, pre-processing and photogrammetric processing of the RMCA's historical aerial photographs of central Africa

B. SMETS | ROYAL MUSEUM FOR CENTRAL AFRICA, BELGIUM

Digitisation of historic aerial images in Baden-Württemberg -- investigating geometric resolution and accuracy of current digitisation systems

J.SCHULZ, T.HERBST | LGL BW, GERMANY

13:00-14:30

Lunch break & Demo/Visit to AFN

**14:30-16:00**

## Applications of historical aerial images - 1

RMCA's historical aerial photographs of central Africa: the collection, its management and its potential for environmental studies

F. KERVYN | ROYAL MUSEUM FOR CENTRAL AFRICA

Review on the processing and application of historical aerial images in the geosciences

L. PIERMATTEI | WSL, SWITZERLAND

Serial processing of historical aerial photographs: a story telling the geomorphic impact of cyclones on Reunion Island (Indian Ocean)

C. RAULT AND T. DEWEZ | BRGM, FRANCE

Semi-Automatic Object Detection in Historical Aerial Images with a Human in the Loop

M. BURGES | TU VIENNA, AUSTRIA

**16:00-16:30**

## Coffee break / Demo time

**16:30-17:30**

## Applications of historical aerial images - 2

Monoplotting and historical aerial images for 3D GIS

C. BOZZINI | WSL, SWITZERLAND

Country wide digital vegetation height models from historical stereo imagery for Switzerland

M. MARTY | WSL, SWITZERLAND

On the use of historical imagery for cadastral photogrammetry – case study from the Heilbronn district

M. CRAMER | UNIV STUTTGART, GERMANY

Geometric and radiometric processing of historical aerial photogrammetric campaigns

A. LE-BRIS | IGN, FRANCE

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## Tuesday

**9:00-10:30**

## Updates from NMCAs and National Archives - 2

Bringing the Swiss Landscape Memory to Life

N. JABRANE AND H. HEISIG | SWISSTOPO, SWITZERLAND

Historical aerial images - What's going on in Norway

H. BULLER | KARTVERKET, NORWAY

Actualizing history

M. NORIN AND G. KLITKOU | LANTMATERIET, SWEDEN

75 years of historical aerial images from Denmark and Greenland - The process from dusty shelves to website

M.B. NIELSEN AND A. DINDORP | SDFI, DENMARK

**10:30-11:00**

## Coffee break / Demo time

**11:00-13:00**

## Advances in image orientation and triangulation

Finding intra-epoch and inter-epoch feature correspondences between pairs of historical aerial images using neural networks

F. MAIWALD | TU DESREN, GERMANY

Historical Structure from Motion (HSfM): Automated processing of historical aerial photographs for long-term geodetic change analysis

K. KNUTH | UNIVERSITY OF WASHINGTON, USA

Implicit / Deep Georeferencing of WWII Aerial Reconnaissance Image

W. KAREL | TU WIEN, AUSTRIA

Feature matching for multi-epoch historical aerial images

L. ZHANG, E. RUPNIK, M. PIERROT-DESSEILLIGNLY | IGN FRANCE

Data models, processing and sharing of historical aerial Images using ArcGIS

M. P. BECKER | ESRI

Closing remarks

ALL REPRESENTATIVES

**13:00-14:30**

## Demo/Visit to AFN

