2.2 Data Sets

Dataset description :
The dataset consists of nearly 800 images of aircraft fuselages, including both cracked and non-cracked surfaces. Images were collected from public sources and inspection-related materials.

Processing steps :

- Removal of low-quality or irrelevant images
- Manual annotation of cracks using bounding boxes
- Dataset split into training, validation, and testing sets

Dataset split :

- Training set: 800+ images
- Validation & test sets: remaining images

Tool used :
Roboflow dataset management and annotation interface