

Scaling up the ATM Pipeline: Boosting Performance and Efficiency

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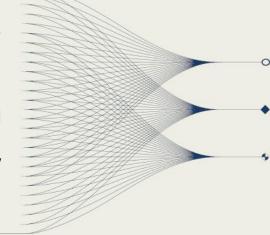
CTBTO Preparatory Commission



•••••• AND MAIN RESULTS

The commissions Atmospheric Transport Modeling (ATM) pipeline is an important element for the IDC to link detections to their potential source areas or determine a potentially affected location.

We have started a project to scale up the ATM pipeline to boost performance and efficiency. Key directions include system upgrades, improved monitoring, documentation, integration testing, HPC usage, adapting to policy/format changes, and exploring new workflows and data formats. Let's discuss ideas and future opportunities!





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ATM RHEL 9 migration

Enhance monitoring and logging

Implementation into CTBT's COD pipeline

Improve Documentation (visually & for NDC users)

Adapt workflow to run pipeline according to availability of samples

Real-time updating of collection stop times

P4.1-720

Initiate planning for next ATM server against a

Misc

Potentially eliminates expensive preprocess component

Adapt to ECMWF data policy changes

Curious about what's next for our ATM pipeline? Come and chat with me! I'll share our vision, listen to your feedback, and explore future directions together!

Expert IBS Improve integration testing

Incorporate and support
XeBET and ATM-EPS
projects results

Close the gap -Update to Flexpart version 11

Explore usage of CTBT's HPC

for ATM data to improve data access & analysis (e.g. Webgrape)

DISCLAIMER:

Adapt to GRIB

format changes

The views expressed on this e-poster are those of the author and do not necessarily reflect the view of the CTBTO.

R&D

System

Develop

Doc

Policy





