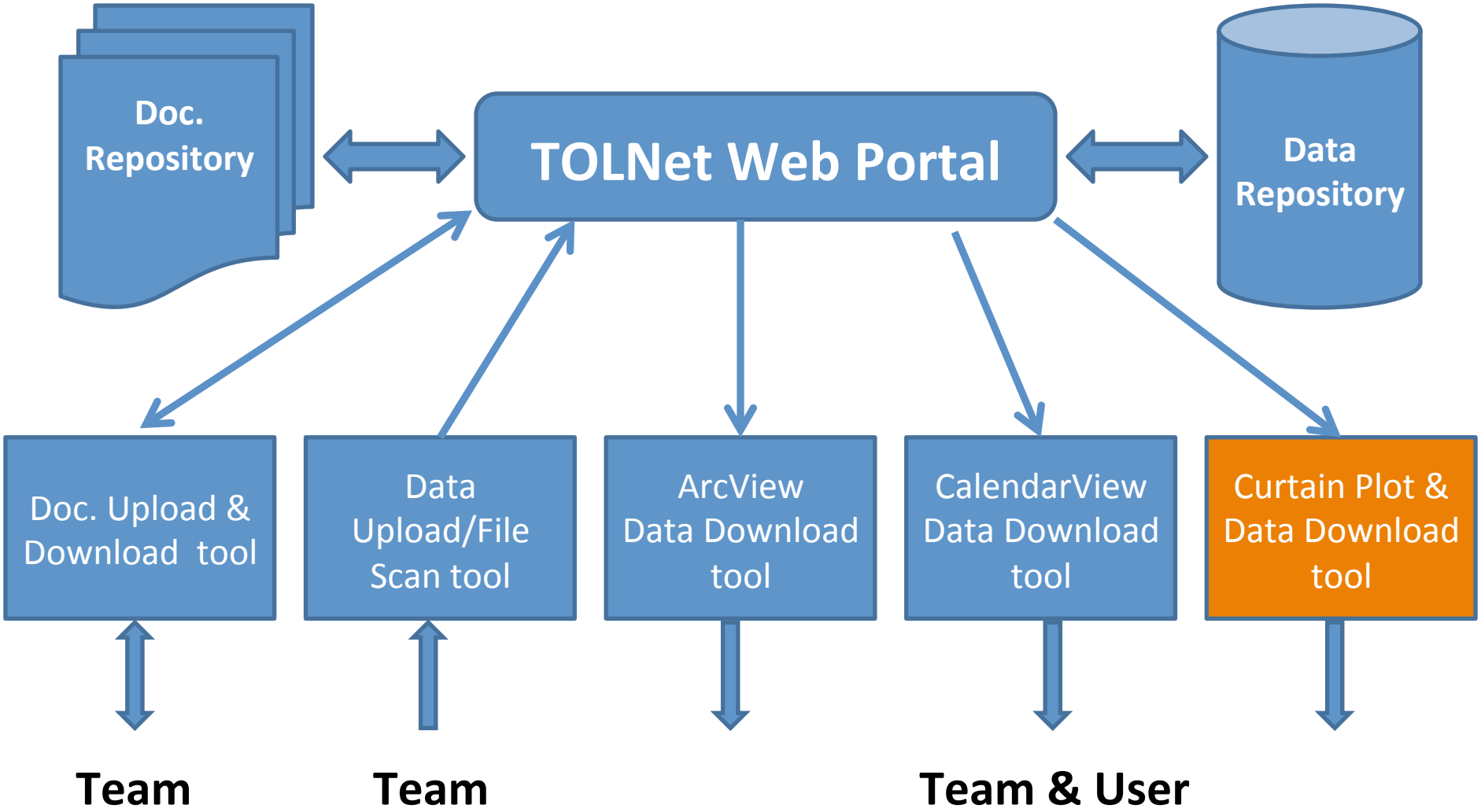
# TOLNet Data Web Portal

Gao Chen[1] and Ali Aknan[2]

1: NASA Langley Research Center, Hampton, VA

2: Science System and Applications, Inc, Hampton, VA

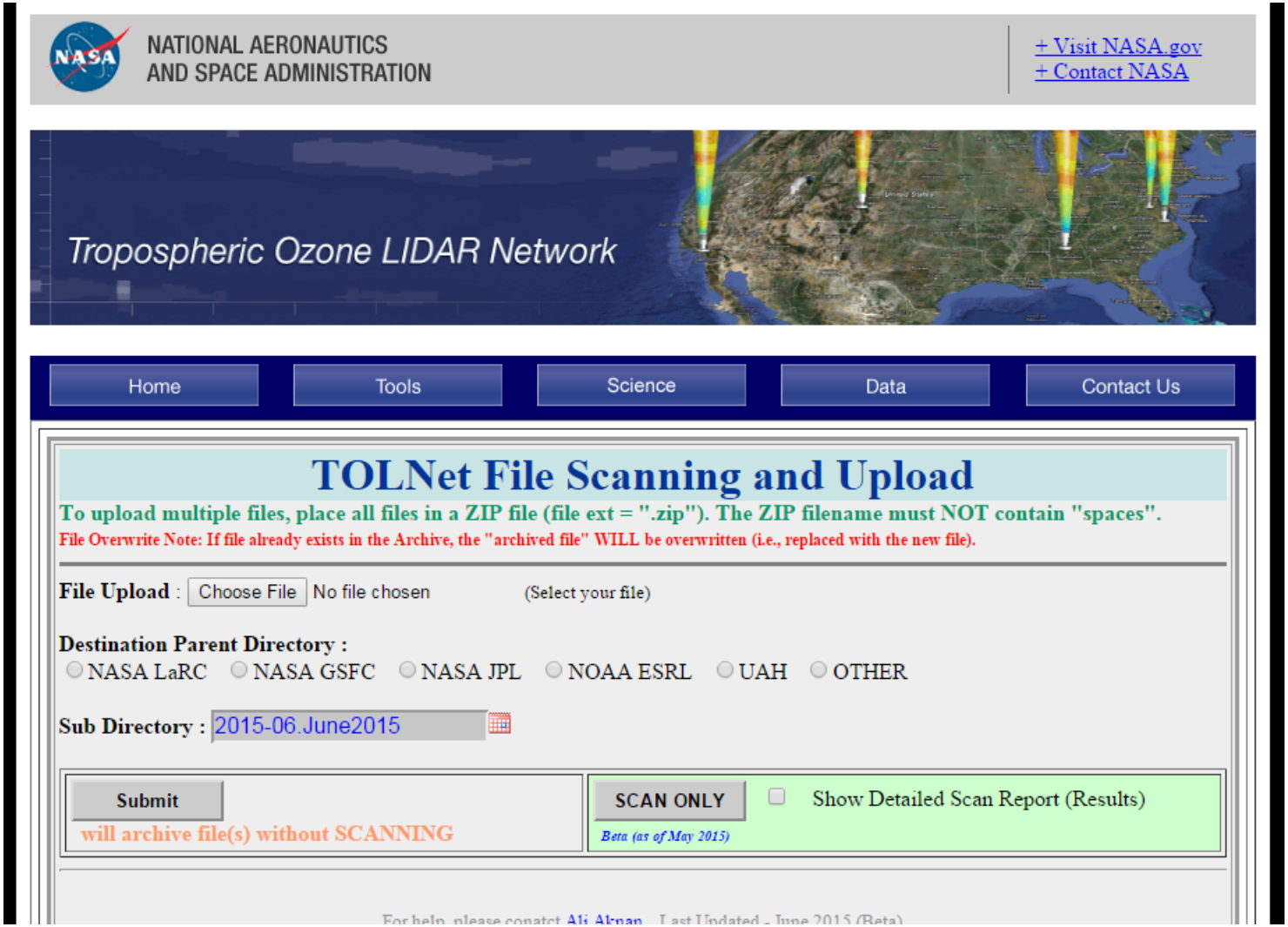
# TOLNet Data System



# TOLNet Data Archive Report

- A total of 748 files available
  - 531 TOLNet format files for 9258 profiles
  - 73 ICARTT files
  - 18 mdl files
- 531 files scanned
  - 221 passed
  - 21 files have file name issues

# File Format Scanning/Uploding Tool



# File Scanner Schematic Chart

## Verify Filename

- Check filename for all components
- Verify the order of filename components

## Verify File Header

- Verify General Header Section
- Verify General Comments Section
- Verify Variable Names

## Verify Profiles

- Verify Each Profile Header
- Verify Each Profile Data Structure
- Verify data codes and values

# Filename Example

- TOLNet-O3Lidar_TMF_20120523_R2_From_Ames_Prof10.dat
- Assign Parts
  - Data ID: TOLNet-O3Lidar
  - Free Length String: TMF
  - Date: 20120523
  - Revision Number: 2
  - Optional Free Length String: From_Ames_Prof10
  - File Extension: .dat
- Verify Order

TOLNet-O3Lidar → TMF → 20120523 → R2 → From_Ames_Prof10 → .dat

# DOI Landing Page

## 10.5067/Lidar/Ozone/TOLNet

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# TOLNet - Tropospheric Ozone Lidar Network

### Ground-Based Profiling of Tropospheric Ozone

TOLNet, currently comprising five lidars (3 mobile systems in ESRL, LaRC, and GSFC and 2 fixed base systems at TMF and UAH), is an interagency initiative started by NASA R&A, NOAA/ESRL, and EPA in 2011. TOLNet provides high-resolution spatio-temporal measurements of tropospheric (surface to tropopause) ozone and aerosol vertical profiles to address fundamental air-quality science questions in cooperation with national, state, and local organizations and to support the DISCOVER-AQ, GEO-CAPE, and TEMPO missions. TOLNet also develops recommendations for lower-cost, more-robust lidar systems to better enable their more widespread use.

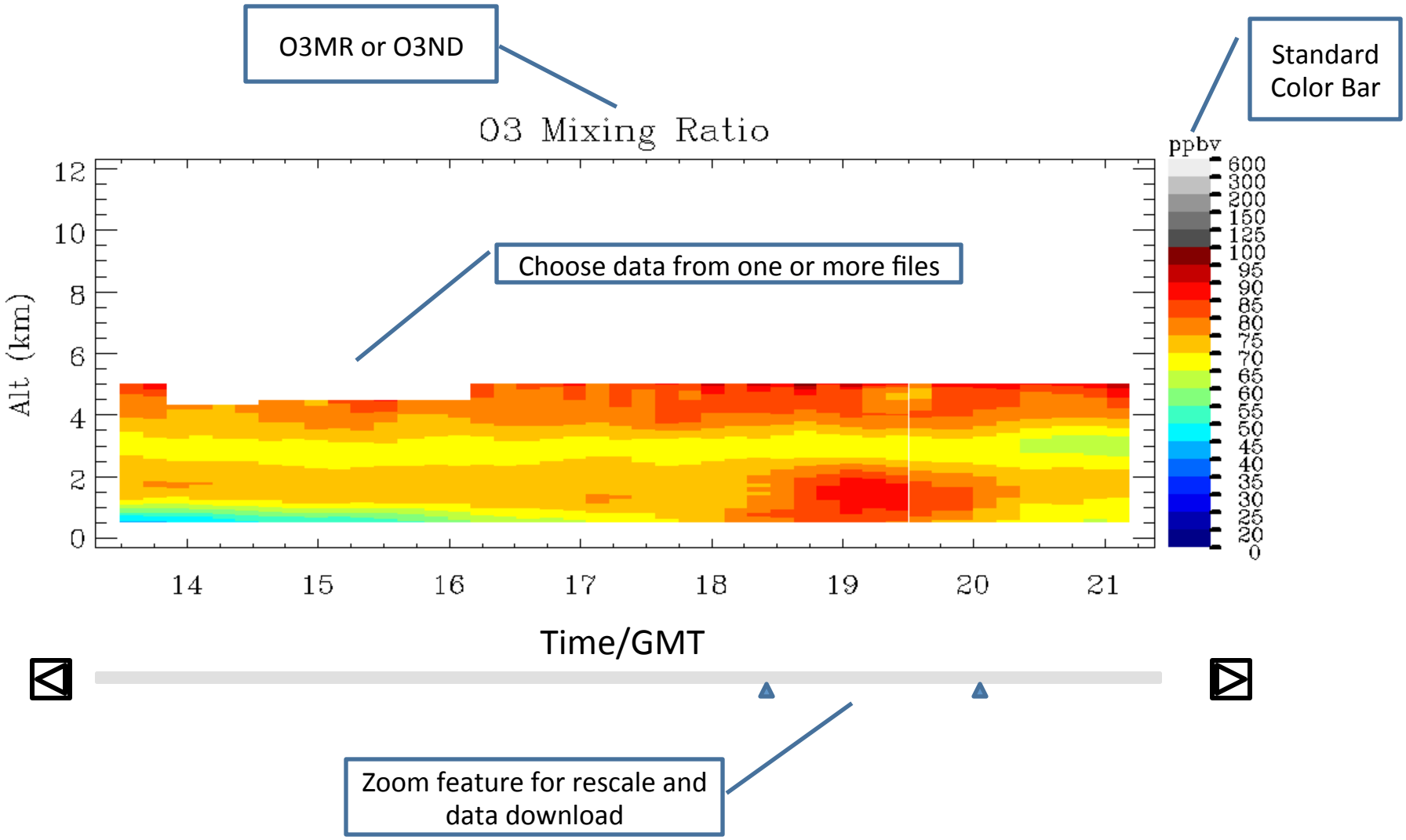
## TOLNet Archive Data Sets

UAH | NASA LaRC | NASA GSFC | NASA JPL | NOAA ESRL | Other

+ Freedom of Information Act
+ NASA Privacy Statement, Disclaimer, and Accessibility Certification

Developer: Ali Aknan
NASA Official: Dr. Gao Chen
Last Updated : 03/30/2015

# Conceptual design of TOLNet Data Plotter



# Plan for Next Year

- Register/Reserve Data DOI
- Present TOLNet format at AGU 2015
- Improve TOLNet file scanner  and Make file scanning mandatory
- Develop visualization package
  - Plot tools
  - Data download tools
- Update the data display and download tools: Calendar View and List View
- - Calendar View will become the default display
- - Easy switching between the 2 displays (Calendar or List)