Welcome to the 2021 Online HYSPLIT Workshop (DAY 4 of 4)

The broadcast is scheduled to start at:
09:00 Eastern Daylight Time (EDT) = 13:00 UTC

NOAA Air Resources Laboratory
June 15-18, 2021

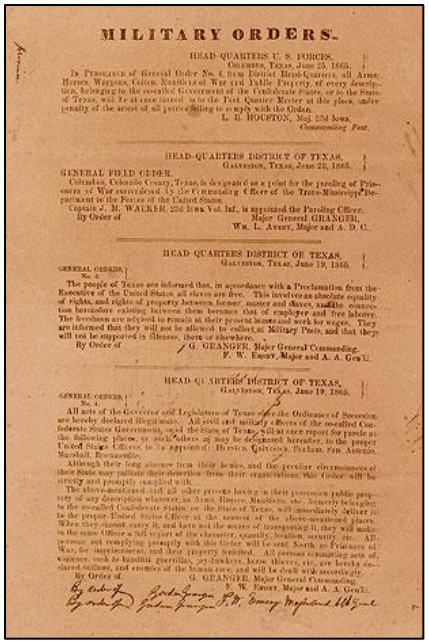
Juneteenth

Juneteenth, celebrated on June 19, marks the date the last enslaved African Americans were granted their freedom in Galveston, TX when Union Soldiers led by General Gordon Granger delivered the order that officially ended slavery in Texas (see picture at right). This final act of liberation on June 19, 1865, came two-and-a-half years after U.S. President Abraham Lincoln issued the Emancipation Proclamation that declared that all persons held as slaves were free.

Juneteenth, also known as Freedom Day, commemorates the end of slavery in the United States, but also recognizes the delay before the last enslaved citizens in the nation were freed.

Yesterday, U.S. President Joe Biden signed the Juneteenth National Independence Day Act commemorating this day as a U.S. Federal Holiday. As June 19th falls on a Saturday this year, the holiday is granted on the Friday before, i.e., today.

We have decided to go ahead and carry out this last day of the HYSPLIT Workshop, but we do so with respect and acknowledgement of the Juneteenth holiday and all that it represents.



MILITARY ORDERS.

HEAD-QUARTERS U. S. FORCES.

HEAD-QUARTERS DISTRICT OF TEXAS.

GENERAL FIELD ORDER.

HEAD QUARTERS DISTRICT OF TEXAS.

HEAD QUARTERS DISTRICT OF TEXAS.

General Order #3,
June 19, 1865

Day 4, Introduction (9:00 – 9:15)
Dr. Mark Cohen, Lead Scientist, HYSPLIT Modeling Group

- ❑ Agenda for today
- ❑ Quick recap of logistics
- ❑ The HYSPLIT Ecosystem
- ❑ ... And then, on to the course!

Workshop guidance and resources posted at

Workshop Web Page

https://www.ready.noaa.gov/register/HYSPLIT_hyagenda.php

… this Intro presentation available as a Handout in Go-to-Webinar , and will also be put on Workshop Web Page

Agenda – Day 1

UTC	EDT	Agenda Item
13:00 – 13:15	09:00 – 09:15	Welcome, Introduction and Logistics
13:15 – 14:00	09:15 – 10:00	1. Installing HYSPLIT
14:00 – 14:10	10:00 – 10:10	Break
14:10 – 14:50	10:10 – 10:50	2. Testing the installation
14:50 – 15:00	10:50 – 11:00	Break
15:00 – 15:45	11:00 – 11:45	3. Gridded meteorological data sets
15:45 – 16:30	11:45 – 12:30	Break
16:30 – 18:00	12:30 – 14:00	4. Trajectory calculations
18:00 – 18:15	14:00 – 14:15	Break
18:15 – 19:30	14:15 – 15:30	5. Trajectory options
19:30 – 19:40	15:30 – 15:40	Break
19:40 – 20:45	15:40 – 16:45	6. Trajectory statistics
20:45 – 21:00	16:45 – 17:00	First day wrap-up

Note: all times are approximate

Agenda – Day 2

UTC	EDT	Agenda Item
13:00 – 13:15	09:00 – 09:15	Comments / questions from previous day
13:15 – 14:45	09:15 – 10:45	7. Air Concentration Calculations
14:45 – 15:00	10:45 – 11:00	Break
15:00 – 16:30	11:00 – 12:30	8. Configuring the CAPTEX simulation
16:30 – 17:30	12:30 – 13:30	Break
17:30 – 19:00	13:30 – 15:00	9. Air Concentration Parameter Sensitivity
19:00 – 19:15	15:00 – 15:15	Break
19:15 – 20:00	15:15 – 16:00	10. Alternate Display Options
20:00 – 20:45	16:00 – 16:45	11. Pollutant Transformations and deposition *(started this section)*
20:45 – 21:00	16:45 – 17:00	Second day wrap-up / questions

Note: all times are approximate

Agenda – Day 3

UTC	EDT	Agenda Item
13:00 – 13:15	09:00 – 09:15	Comments / questions from previous day
13:15 – 14:15	09:15 – 10:15	11. Pollutant Transformations and deposition *(continuing this section from yesterday)*
14:15 – 14:30	10:15 – 10:30	Break
14:30 – 16:00	10:30 – 12:00	12. Air Concentration Uncertainty
16:00 – 17:00	12:00 – 13:00	Break
17:00 – 18:00	13:00 – 14:00	13. Source Attribution Methods *(…first part)*
18:00 – 18:15	14:00 – 14:15	Break
18:15 – 19:15	14:15 – 15:15	13. Source Attribution Methods *(…continued)*
19:15 – 19:30	15:15 – 15:30	Break
19:30 – 20:45	15:30 – 16:45	14. Wildfire Smoke and Dust Storms
20:45 – 21:00	16:45 – 17:00	Third day wrap-up / questions

Note: all times are approximate

Agenda – Day 4

UTC	EDT	Agenda Item
13:00 – 13:15	09:00 – 09:15	Comments / questions from previous day
13:15 – 14:45	09:15 – 10:45	15. Radioactive Pollutants and Dose
14:45 – 15:00	10:45 – 11:00	Break
15:00 – 16:30	11:00 – 12:30	16. Volcanic Eruptions with Gravitational Settling
16:30 – 17:30	12:30 – 13:30	Break
17:30 – 18:30	13:30 – 14:30	17. Custom Simulations
18:30 – 18:45	14:30 – 14:45	Break
18:45 – 19:45	14:45 – 15:45	Questions and answer (Q & A) session with course instructor Roland Draxler*
19:45 – 20:00	15:45 – 16:00	Final course wrap-up

* Participants will ask questions for the Q&A via the Go-to-Webinar "Questions" box

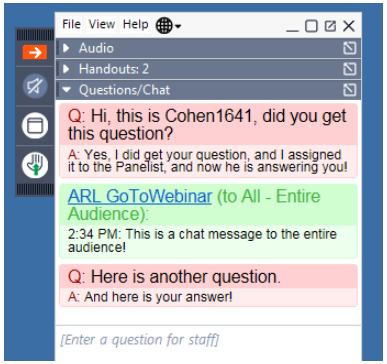
Note: all times are approximate

Quick Recap of Logistics

Quick Recap of Logistics

- **General questions:**
  - use Go-to-Webinar Question box and we will do our best to answer
  - We are not using the "raise hand" feature for questions
- **Detailed questions, e.g., about the model:**
  - use the HYSPLIT Forum
  - if haven't already, "register" in upper right corner of Forum web page
- **Event Guides:**
  - Online Event Guide and Recorded Event Guide available as Handouts in Go-to-Webinar and on the Workshop Web Page
- **Handouts:**
  - Other documents – e.g., this presentation – provided as Handouts in Go-to-Webinar and also on the Workshop Web Page
- **Recordings:**
  - Each day's recording will be posted to the Workshop Web Page as soon as it is ready, generally 2-4 hours after the day's session ends.

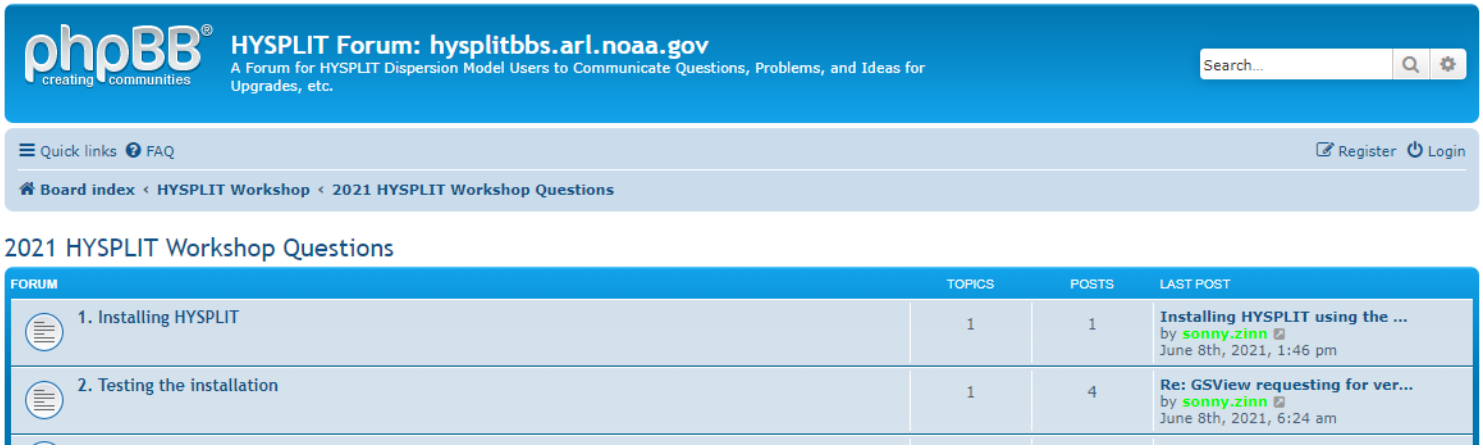
Asking Questions



- Ask general questions about the Webinar or Go-to-Webinar in the Control Panel that was just discussed

...if viewing a recording, can ask general questions by emailing **arl.webmaster@noaa.gov**

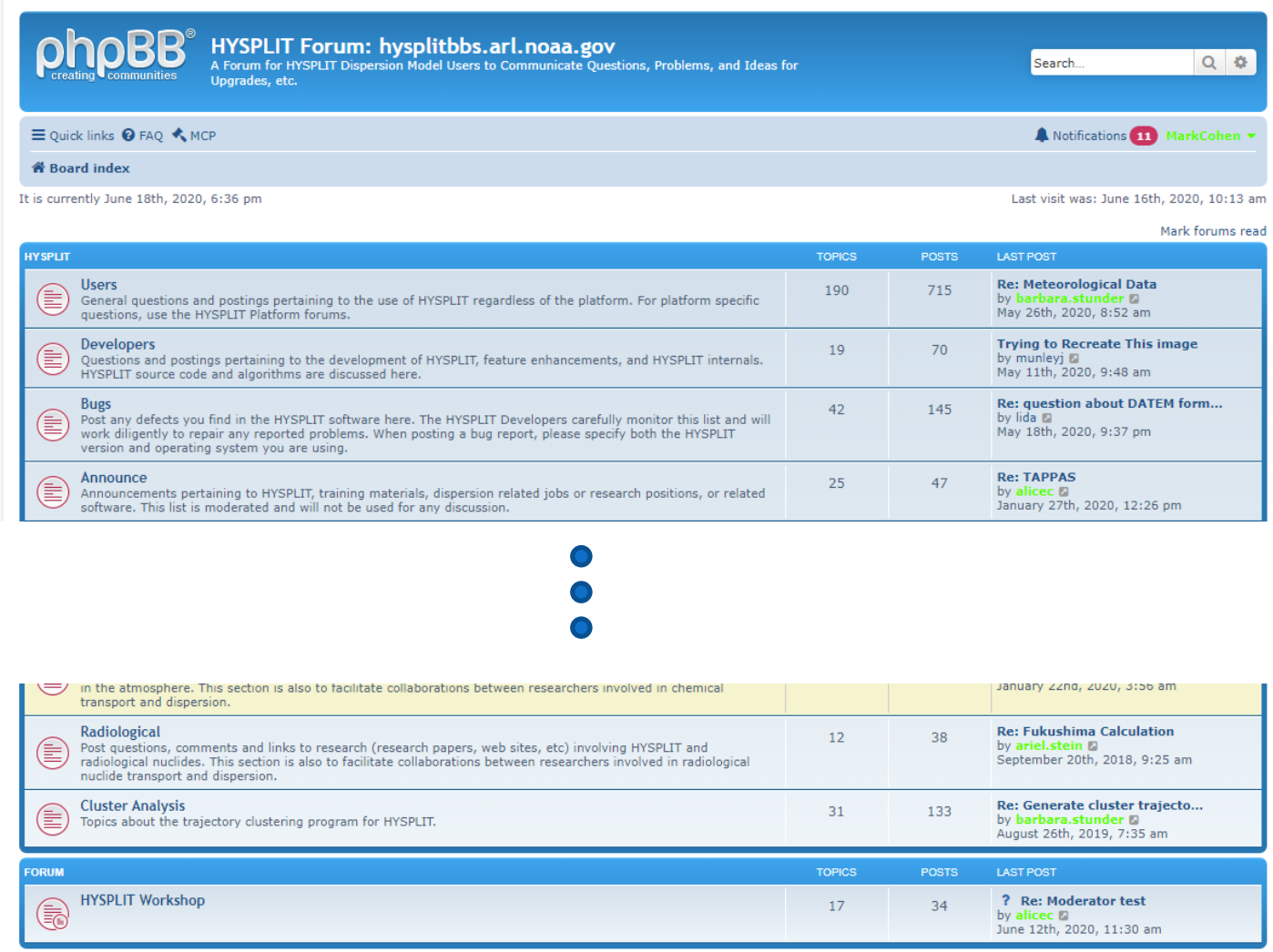
- Ask questions about HYSPLIT and the Tutorial in the HYSPLIT Forum



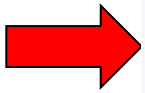
Asking Questions

If you have not already registered for the HYSPLIT Forum, you can do so easily by clicking on the "Register" icon at https://hysplitbbs.arl.noaa.gov/

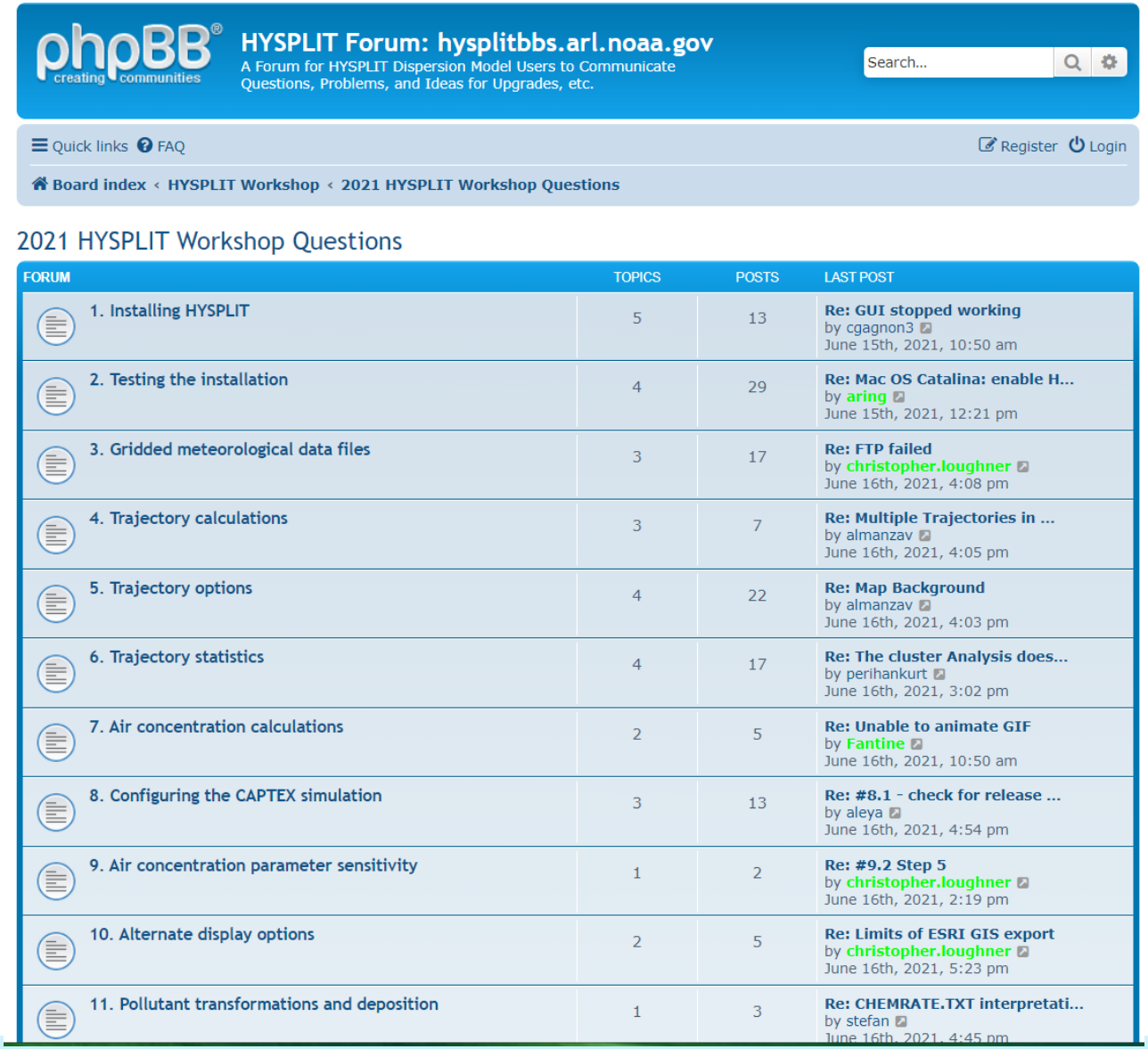
Asking Questions



Asking Questions



https://hysplitbbs.arl.noaa.gov/viewforum.php?f=57



phpBB creating communities

HYSPLIT Forum: hysplitbbs.arl.noaa.gov

A Forum for HYSPLIT Dispersion Model Users to Communicate Questions, Problems, and Ideas for Upgrades, etc.

Search...

Quick links FAQ Register Login

Board index ‹ HYSPLIT Workshop ‹ 2021 HYSPLIT Workshop Questions

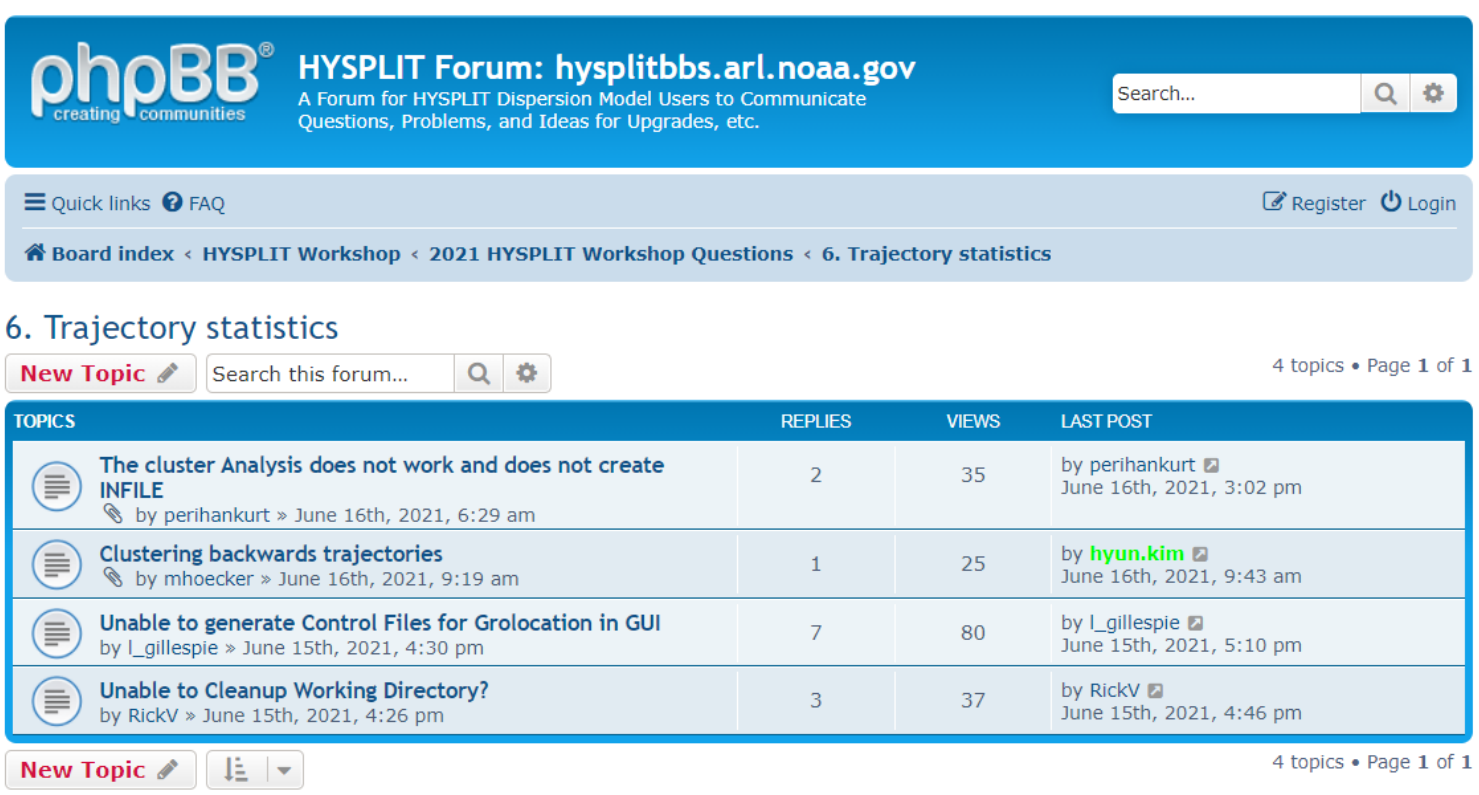
2021 HYSPLIT Workshop Questions

FORUM	TOPICS	POSTS	LAST POST
1. Installing HYSPLIT	5	13	**Re: GUI stopped working** by cgagnon3 June 15th, 2021, 10:50 am
2. Testing the installation	4	29	**Re: Mac OS Catalina: enable H...** by aring June 15th, 2021, 12:21 pm
3. Gridded meteorological data files	3	17	**Re: FTP failed** by christopher.loughner June 16th, 2021, 4:08 pm
4. Trajectory calculations	3	7	**Re: Multiple Trajectories in ...** by almanzav June 16th, 2021, 4:05 pm
5. Trajectory options	4	22	**Re: Map Background** by almanzav June 16th, 2021, 4:03 pm
6. Trajectory statistics	4	17	**Re: The cluster Analysis does...** by perihankurt June 16th, 2021, 3:02 pm
7. Air concentration calculations	2	5	**Re: Unable to animate GIF** by Fantine June 16th, 2021, 10:50 am
8. Configuring the CAPTEX simulation	3	13	**Re: #8.1 - check for release ...** by aleya June 16th, 2021, 4:54 pm
9. Air concentration parameter sensitivity	1	2	**Re: #9.2 Step 5** by christopher.loughner June 16th, 2021, 2:19 pm
10. Alternate display options	2	5	**Re: Limits of ESRI GIS export** by christopher.loughner June 16th, 2021, 5:23 pm
11. Pollutant transformations and deposition	1	3	**Re: CHEMRATE.TXT interpretati...** by stefan June 16th, 2021, 4:45 pm

You can post your question in the appropriate section, based on where in the Tutorial your question refers to.

Asking Questions

You can look to see if there already is a similar question, and if not, you can create a New Topic

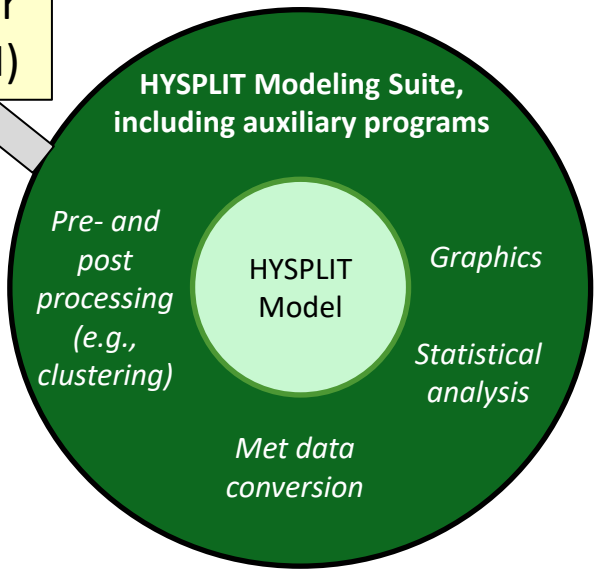


The HYSPLIT Ecosystem

Workshop

Tutorial

Graphical User Interface (GUI)



Running HYSPLIT and auxiliary programs from the command line & scripts

Public, on-line READY system

Other public, on-line systems, e.g., new Locust Forecasting system

Proprietary, on-line systems used by National Weather Service and other emergency response agencies & applications (nuclear, volcano, chemicals)

HYSPLIT Documentation and Learning Resources

- HYSPLIT Tutorial: detailed instructions on using the GUI + example scripts; can be run online or downloaded to local computer
- The GUI is a great way to learn HYSPLIT
  - even experienced users use it when trying something new
  - can create a run in the GUI, and then look at associated input/output files to tell you how to to create a script to do similar simulations
  - you can do some relatively complicated procedures (e.g., trajectory clustering)
- HYSPLIT Users Guide: online (and also in hysplit/documents directory)
- Download HYSPLIT and other resources: https://www.ready.noaa.gov/HYSPLIT.php
- HYSPLIT Cheat Sheet
- Model Overview: https://www.arl.noaa.gov/hysplit/hysplit/
- Equations: https://www.arl.noaa.gov/wp_arl/wp-content/uploads/documents/reports/arl-224.pdf
- HYSPLIT Forum: https://hysplitbbs.arl.noaa.gov/
- HYSPLIT FAQ's: https://www.arl.noaa.gov/hysplit/hysplit-frequently-asked-questions-faqs/
- HYSPLIT Training Workshop: https://www.ready.noaa.gov/register/HYSPLIT_hyagenda.php
- Stein et al., 2015: NOAA's HYSPLIT atmospheric transport and dispersion modeling system, *Bull. Amer. Meteor. Soc*., 96, 2059-2077, http://dx.doi.org/10.1175/BAMS-D-14-00110.1
- Rolph et al., 2017: Real-time Environmental Applications and Display sYstem: READY. *Environmental Modelling & Software*, 95, 210-228, https://doi.org/10.1016/j.envsoft.2017.06.025

Course Instructor

Roland Draxler

NOAA Air Resources Laboratory (retired)