Question	Answer
Are the Camus ML models opensource ?	Camus has pushed a snapshot of our work on weather data accessability described
	in the presentation to a github repository for prototypes in collaboration with
	NOAA, IOOS and RPS. We are looking for oportunities like Google Summer of Code
	to generalize our work into supported open source projects like Kerchunk or
	VirtualiZarr. As a small VC funded green tech company our time is extremely
	precious and we are unable to directly support an open source community
	development model at this time. Please consider collaboration with Open Climate
	Fix or possibly EPRI and solar forecast arbiter though I think SFA only share and
	evaluate ML results, not model source code. We hope to contribute to open
	source development in the future as we grow.
David, it has been my understanding that object store such	Both <u>GCS</u> and <u>S3</u> support reading byte ranges (but not writing byte ranges). The
as S3 on AWS does not support specific byte range	fsspec clients for both sdks support the read bytes method which is used in the
downloads. Is this not a limitation?	kerchunk refspec as a zarr codec for the grib data. Pleas have a look at the
	Kerchunk case studies and docs. The fsspec and kerchunk github issues are a great
	place for technical questions and further community support.
Are their training sessions on how to retrieve and process	Camus: We don't currently have any training sessions planned but the pangeo
the data?	community might be a good resource. We did present a more hands on pangeo
	showcase demo using the classes and method we created in a colab notebook to
	retrieve and process data. The <u>Kerchunk case studies</u> are also a great starting
	point. I think NODD is working on adding example notebooks to their datasets.
	NODD: Each dataset is unique so this depends on the dataset. Some datasets have
	tutorials and jupyter notebooks listed on their landing page. For instance GOES
	data on AWS has a lot of tutorials and reference material. Check it out at
	https://registry.opendata.aws/noaa-goes/
	This past year the NODD team has begun hosting Office Hours, which offer an
	opportunity for data users to join and connect with NOAA and cloud subject
	matter experts to learn how to access and process data from select datasets. To
	access materials from past events and register for future ones, please visit the
	NODD website at NOAA.GOV/NODD

Is there a plan to move the HRRR Zarr database to aws as	The HRRR Zarr bucket is mananged by University of Utah. They can be contacted
well? I see the current Zarr store lacks solar radiation fields	at atmos-mesowest@lists.utah.edu. They will be able to give information on
(please correct me if I am wrong here).	additional ZARR files and what is contained within them.
Is there a single source available that compares the	Camus: Camus has collected an unofficial model metadata document and shared it
differences in the models offered by NODD, e.g., the data	as part of the presentation. We agree that an offically curated catalog of available
range, data resolution, time resolution, etc?	models would be extremely valuable.
	NODD: No. NODD is just the conduit for cloud dissemination. The data itself is
	owned by the individual data owners. We list all the available products on our
	website and then users can access informaiton for those datasets such as
	resolution and range on the data page which is linked.
David: Does your website have any demo for the ML for	We don't have a demo on our <u>website</u> but we do explain our grid forecasting in
weather forecast and grid forecast? Thanks	more detail. We also have a <u>blog</u> that explains our meter level forecasting product.
	Please reach out through our website to schedule a product demo - we look
	forward to hearing from you!
Are some of the commercial forecast providers such as	If these providers don't share publically what data they are using it is hard to
TruePower, 3 Tier etc using these data	speculate but they are almost certainly using NOAA or ECMWF models either
	directly, via blending with other sources, or as initial conditions & boundary
	conditions if they are running there own high resolution local forecasts.
	Unfortunately ECMWF does not have a public cloud data collaboration like NODD -
	their data is behind a pay wall.
is the index file is available for all grid files ? (edited)	Camus: We have found idx files for all the HRRR, GFS and GEFS products we have
	looked at. The NODD team may have more details on which products have idx
	metadata.
	NODD: We generate index files for multi datasets but not for every data holding.
	We recommend reaching out to our team at nodd@noaa.gov if you would like to
	better understand which datasets have index files associated with them.
Hi David, Does Camus's NODD work offer any new fire risk	The NOAA Global Systems Laboratory does extensive Fire Weather Research. I
mitigation information? Are NODD data potentially helpful	have no hands on experience with this complex topic but I would love to see the
for coordinating resources?	HRRRsmoke model results made available via NODD.