We created some results of water temperature prediction over 56 river segments in Lordville. Could you help visualize the difference of three methods, heterogeneous graph network (HGN), graph diffusion network (GDN), and the proposed method (proposed), using 100% or 2% training data? We named the output file as method\_xx(% training data).npy. Each file is the prediction output matrix for 56 rivers over the period of 2006-12-26 to 2020-06-22 (4928 dates).

Another function of the proposed method is that it can create a new version of simulated data combining SNTemp-based stream simulations and GLM-based reservoir simulations. We also want to compare several different versions of simulated data: original SNTemp (sim\_temp\_SNTemp), the composite data in USGS data release (sim\_temp\_composite), and the proposed (sim\_proposed). We only want to compare their performance in the same testing period of 2006-12-26 to 2020-06-22 (sim\_proposed has been cut to this range while sim\_temp\_SNtemp and sim\_temp\_composite are from 1980-01-01).

sim\_temp and sim\_temp\_composite are the files obtained from the data release. They cover the whold period from 1980-01-01 to 2020-07-31. Both contains 14823 dates.

The 56 rivers have the segment id as '1435', '1436', '1437', '1438', '1439', '1440', '1441', '1442', '1443', '1444', '1445', '1446', '1447', '1448', '1449', '1450', '1451', '1452', '1453', '1454', '1455', '1456', '1457', '1458', '1459', '1460', '1461', '1462', '1463', '1545', '1546', '1547','1548', '1549', '1550', '1551', '1552', '1553', '1554', '1555', '1556', '1557', '1558', '1559', '1560', '1561', '1562', '1563', '1564', '1565', '1566', '1571', '1572', '1573', '1574', '1575'

Please let me know if you need any other information for visualization. We will share with you an updated draft for comment later this month. Thank you for your help!