1 Script for Kansas test case KANSAS01 (Part 2) 2 ATM419/563 Spring 2022 3 4 Verification of KANSAS01: START in your own KANSAS directory 5 * PART A -Network-averaged statistics 6 * create new subdirectories, and move files 7 8 9 mkdir KANSAS01 10 mkdir KANSAS01/postprd 11 mkdir KANSAS01/wrfprd 12 mv wrfout* KANSAS01/wrfprd 13 cd KANSAS01 14 • IF YOU DO NOT HAVE WRF OUTPUT FROM KANSAS PART 1, do this: 15 16 cd wrfprd 17 cp \$LAB/KANSAS/wrfout_d01*. 18 cd .. 19 20 * Get required scripts 21 cp \$LAB/KANSAS/SETUP_MET.TAR. 22 unpack this file [you are in your KANSAS/KANSAS01 directory] 23 24 * Step (1): **execute run_unipost_frames**. The script already edited (see PPT) 25 26 bash run unipost frames 27 *[if this fails right away, make sure you created subdirectory* postprd] 28 29 * Step (2): execute MET6_run_ASCII2_ASOS.sh. Script already edited (see PPT) 30 31 bash MET6 run ASCII2 ASOS.sh 32 33 * Step (3): execute network_plots.sh. See PPT for more details 34 35 sh network_plots.sh 36 37 * Step (4): **run python program** [after setting environment with 'dopython' cmd] 38 39 dopython 40 python read_output3.py 41 42 [The python program should bring up a graphics window with a 4-panel plot. Click 43 the close box when you are ready to continue. Output saved as four panel.png] [Ignore warnings like "libGL error: No matching fbConfigs or visuals found 44 45 libGL error: failed to load driver: swrast"]

46 47	* PART B – Station-based statistics	
48	* Step (1): 10 m wind speed analysis: bias plot (see PPT). The directory	
49	STATIONS/wind is created and populated	
50		F - F
51	sh run stations F10M.sh	
52		
53	ls STATIONS/wind	(see new files are there)
54	·	
55	sh sum_and_average_F10M.sh > input_for_grads	
56		
57	sh grads_plot.sh	(this creates the GrADS script stations.gs)
58		
59	launch GrADS, open kansas01.ctl	
60	[file is in directory above \$pwd. open/kansas01.ctl]	
61	/terrain.gs	(runs script located one directory level up)
62	stations.gs	(plots station locations with mean bias info)
63		
64	[see PPT for more analysis]	
65		
66		
67	* Step (2): 2 m temperature analysis: bias plot (see PPT). The directory	
68	STATIONS/temp is created a	nd populated
69		
70		
71	sh run_stations_T2M.sh	
72		
73	Is STATIONS/temp	(see new files there)
/4 75	ab and a second a TOM ab a invest for a second	
/5	sn sum_and_average_12M.sn > input_for_grads	
/6 77	ab and de valet ab	(this marked the CrADC series stations as)
//	sn grads_plot.sn	(this creates the GrADS script stations.gs)
/8 70		(and overwrites the older one)
/9	lowesh CrADS on on bongood	1 at
0U 01	Iaulicii (IAD), Upeli Kalisasu 1.cu [filo is in directory above \$nyud onen /kenses01 st]	
01	/torrain go	(rung script logated one directory loyal up)
02 02	/terraili.gs	(runs script localed one alrectory level up)
03 Q/	stations.gs	(now temperature bias is protied)
04 Q5	[coo DDT for more analysis]	
03 86		
00		