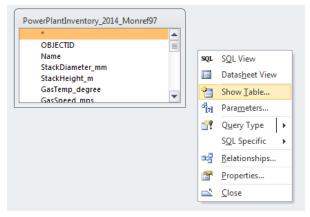
4 Export of Emission Data from Access File

4.1 Power Plant

Open "StationarySources.mdb" and after right-clicking "Q_PowerPlant_Emission_Inventory" query, click [Design View].

	PO	werPlant_Emission_Inventory Open	
		Design View	
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After right-clicking on the area that table is displayed, click [Show Table].



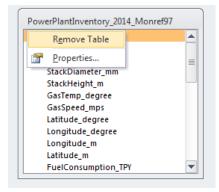
Select "PowerPlantInventory_2015_Amgalan_MonRef97" table in [Tables] tab and click [Add].

Show Table
Tables Queries Both
PowerPlantInventory_2013_MonRef97 PowerPlantInventory_2013_MonRef97_Shape_Index PowerPlantInventory_2014_MonRef97_grid1km PowerPlantInventory_2014_MonRef97_grid1km_Shape_Index PowerPlantInventory_2014_MonRef97_Shape_Index PowerPlantInventory_2015_Amgalan PowerPlantInventory_2015_Amgalan_Monref97 PowerPlantInventory_2015_Amgalan_Monref97 PowerPlantInventory_2015_Amgalan_WGS84 PowerPlantInventory_2015_Amgalan_WGS84_Shape_Index PowerPlantInventory_2015_Amgalan_WGS84_Shape_Index PowerPlantInventory_2015_MonRef97 PowerPlantInventory_2015_MonRef97 PowerPlantInventory_2015_MonRef97 PowerPlantInventory_2015_MonRef97 PowerPlantInventory_2015_MonRef97_Shape_Index PandHOB_Emission_2014_ByGrid
<u>A</u> dd <u>C</u> lose

Field:	ID	StackDiameter_mm	StackHeight,m	GasTemp_degree	GasSpeed_mps	Longitude_m	Latitude m	Ptn_Jan
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or:								
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Show:				V	V			
Oriteria:								
or:								
Field:	Ptn_Jul	Ptn_Aug	Ptn_Sep	Ptn_Oct	Ptn_Nov	Ptn_Dec	S02_TPY: S02_TPY	NOXTPY
	PowerPlantInventory_2	PowerPlantInventory_2	PowerPlantInventory_2	PowerPlantInventory_20	PowerPlantInventory_20	PowerPlantInventory_20	PowerPlantInventory_2	PowerPlantInventory_2(
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or:								
Field:	Ptn_Oct	Ptn_Nov	Ptn_Dec	S02_TPY: S02_TPY	NOXTPY	TSP_TPY	PM10_TPY	CO_TPY
Table:					NO×_TPY PowerPlantinventory_2(
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Table: Sort:	PowerPlantin ventory_20	PowerPlantin ventory_2	PowerPlantInventory_20	PowerPlantin ventory_2(PowerPlantin ventory_2(PowerPlantInventory_2(PowerPlantin ventory_2(PowerPlantin ventory_2(

Apply the setting of each field to the items of "PowerPlantInventory_2015_Amgalan_MonRef97" table.

To delete the old table, right-click this table and click [Remove Table].



Click [Make Table] in [Design] tab



Set the table name (Here it is "PowerPlant_Emission_2015_Amgalan").

Make New Tal	ble	OK
Table <u>N</u> ame:	PowerPlant_Emission_2015_Amgalan	
O Current Da	atabase	Cancel
Another D	atabase:	
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Click [Run] and make new table.



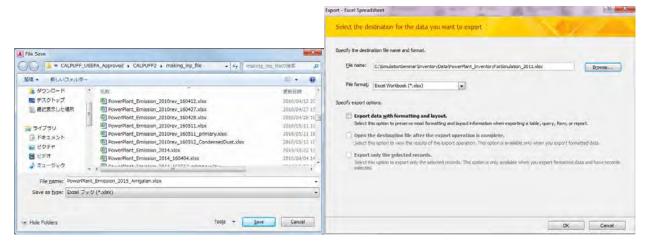
Click [Yes].



Select the created table and click [Export]-[Excel] in [Design] tab.

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All Acc	ess Objects				• «							
	PowerPlant	Emissio	n 2015	Amgalan								

After setting the file save location at [Browse], click [OK].

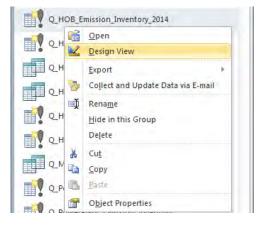


Click [Close].

ort - Excel Spreadsheet	15-5
Save Export Steps	100
Successfully exparted 'PowerPlant_Emission_2015_Amgalan'.	
Do you want to save these export steps? This will allow you to quickly repeat the operation without using	the wizard.
Saye export steps	
	Glose

4.2 HOB

Open "StationarySources.mdb" and after right-clicking "Q_HOB_Emission_Inventory_2014" query, click [Design View].



After right-clicking on the area that table is displayed, click [Show Table].

*	Datasheet View
OBJECTID	Show Table
house_id	Parameters
boiler_id model capacity b. type_id	Query Type SQL Specific
	Relationships
	Properties
III	Close

Select "HOBInventory_2015_MonRef97" table in [Tables] tab and click [Add].

Tables Queries Both	
HOBInventory_2014_MonRef97_grid1km_Shape_Index HOBInventory_2014_MonRef97_Shape_Index HOBInventory_2015_0 HOBInventory_2015_0 HOBInventory_2015_0_WGS84	*
HOBInventory_2015_0_WGS84_Shape_Index HOBInventory_2015_MonRef97	
HOBInventory_2015_MonRef97_grid1km HOBInventory_2015_MonRef97_grid1km_Shape_Index HOBInventory_2015_MonRef97_Shape_Index HOBInventory_2015_WGS84	
HOBInventory_2015_WGS84_Shape_Index HOBLocation_2014_MonRef97 HOBLocation_2014_MonRef97_Shape_Index	
HOBLocation_2014_WGS84	*

Apply the setting of each field to the items of "HOBInventory_2015_MonRef97" table.

Field:	ID1 🖉	Diameter_mm	height	Temperature_of_flue_gas	Velocity_of_flue_gas	Хл	Υл	1
		HOBInventory_2015_Mo	HOBInventory_2015_Mo	HOBInventory_2015_Mo	HOBInventory_2015_Mo	HOBInventory_2015_Mo	HOBInventory_2015_	M
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riteria: or:								
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Show:				V	V			
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or:								
Field:	AUG	SEP	Oct	NOV	DEC_	S02_TPY	NOXTPY	
Table:	HOBInventory_2015_Mo	HOBInventory_2015_Mo	HOBInventory_2015_Mo	HOBInventory_2015_Mo	HOBInventory_2015_Mo	HOBInventory_2015_Mo	HOBInventory_2015_	M
Sort: Show:								
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To delete the old table, right-click this table and click [Remove Table].

н	OBInventory_2014_MonRef97	
	R <u>e</u> move Table	
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Click [Make Table] in [Design] tab



Set the table name (Here it is "HOB_Emission_2015").

		OK
OB_Emission_2015		
Dase		Cancel
base:		
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	OB_Emission_2015 base base:	OB_Emission_2015 base base:

Click [Run] and make new table.

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Click [Yes].



Select the created table and click [Export]-[Excel] in [Design] tab.

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Click [Close].



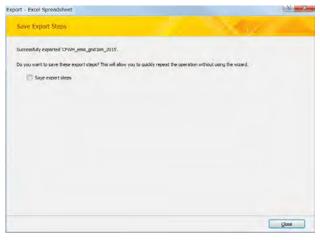
4.3 CFWH

Select the table organizing emissions by grid and click [Export]-[Excel] in [Design] tab (Here it is "CFWH_emis_grid1km_2015" table).

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CFWH emis											

			Export - Excel Spreadsheet
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302 • 彩レルフォルダー 第 520 - F ・ 第 520 - F ・	S.M CFWH_emis_gnd1km_2010rev.160325.sks CFWH_emis_gnd1km_2010rev.160325.sks CFWH_emis_gnd1km_2010rev.160412.sks CFWH_emis_gnd1km_2010rev.160412.sks CFWH_emis_gnd1km_2010rev.160428.sks CFWH_emis_gnd1km_2010rev.160511.sks CFWH_emis_gnd1km_2010rev.160511.pnmery.	E • • • • • • • • • • • • • • • • • • •	File format: Excell 7x9 (*.x6x) Specify export sphores. • Specify export sphores. • Specify export sphores. • Specify export sphores. • Specify export sphore. • Specify export sphore. • Open the destination and layout. • Open the destination like after the export operation is complete. • Toport only the spectred records. • Specify this caption to export for reaction of the export operation is originate available only when you export formatized data. Coport only the spectred records. • Specified. • Specified. • Specified. • Coport only the spectred records. • Specified. •
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Click [Close].



4.4 Small Stove for Household

Select the table organizing emissions by grid and click [Export]-[Excel] in [Design] tab (Here it is "GerEmisByKhoroo_2015_ByGrid" table).

A G - C - C	Create	External Data	Databa	se Tools		y Tools sign				
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Click [Close].



4.5 Mobile Sources

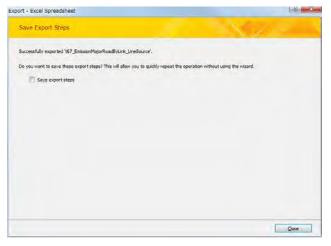
4.5.1 Vehicle Exhaust Gas in Major Road

Select the table organizing emissions by grid and click [Export]-[Excel] in [Design] tab (Here it is "t67_EmissionMajorRoadByLink_LineSource" table).

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Superson Without Superson Supere	E 014/07/5 U 2014/07/75 U 2014/07/75 U 2014/07/75 U 2014/07/75 U 2014/07/75 U 2014/07/75 U 2014/07/71 U 2014/07/71 U 2015/07/72 U 2015/07/72 U	Ple forms): (Social 799 (*.slos)) (*.slos) Specify export options. Captor data gift formatting and layout. Select this splin to preserve most formatting and layout information when exporting a table, query, form, or report. Select this splin to ave the result of the waypert operation is complete. Select this splin to ave the result of the waypert operation. This option is available when you export formattind data and have records Select this splin to be poor instry the selected records. Select this splin to be poor instry the selected records. This option is only available when you export formattind data and have records Select this splin to be poor instry the selected records.
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Click [Close].



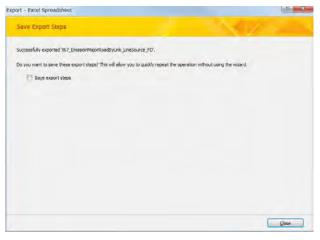
4.5.2 Fugitive Dust by Travelling Vehicle in Major Road

Select the table organizing emissions by grid and click [Export]-[Excel] in [Design] tab (Here it is "t67_EmissionMajorRoadByLink_LineSource_FD" table).

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	Save Cancel	Carol

Click [Close].



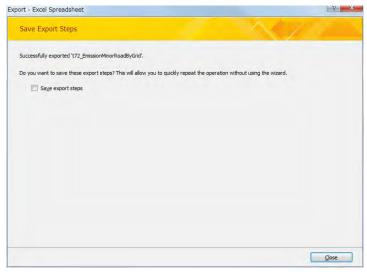
4.5.3 Vehicle Exhaust Gas in Minor Road

Select the table organizing emissions by grid and click [Export]-[Excel] in [Design] tab (Here it is "t72_EmissionMinorRoadByGrid" table).

Saved Linked Table Excel Access ODBC Database More * Import & Link	
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import & tink Export	

	Export - Excel Spreadsheet
	Select the destination for the data you want to export
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Click [Close].



4.5.4 Fugitive Dust by Travelling Vehicle in Minor Road (Paved Road)

Select the table organizing emissions by grid and click [Export]-[Excel] in [Design] tab (Here it is "t75_EmissionMinorRoadByGrid_FD_Paved" table).

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Do you want to save these export steps? This will allo	w you to quickly repeat the operation without using the wizar	d.
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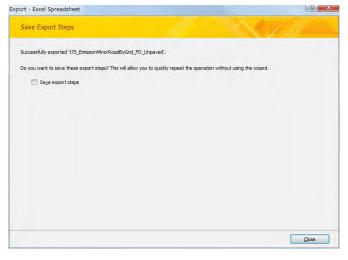
4.5.5 Fugitive Dust by Travelling Vehicle in Major Road(Unpaved Road)

Select the table organizing emissions by grid and click [Export]-[Excel] in [Design] tab (Here it is "t75_EmissionMinorRoadByGrid_FD_Unpaved" table).

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Click [Close].



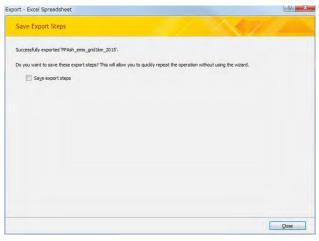
4.6 Other Source (Fugitive Ash from Ash Pond of Power Plant)

Select the table organizing emissions by grid and click [Export]-[Excel] in [Design] tab (Here it is "PPAsh_emis_grid1km_2015" table).

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			Select the destination for the data you want to export
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Click [Close].



5 Converting to the Source Input Format for CALPUFF

5.1 Point Source

Open the Excel file in export destination folder and the file of elevation data by grid (UB_altitude.xlsx).

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Copy "sheet1-1" of "UB_altitude.xlsx" to the Excel file in export destination folder

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Add columns to calculate the emissions of SO2, SO4 and NO3.

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3	2	1	. 1	3.75252			0.47707	0.42006	0.27304	9.25038		
4	3	1	1	3.60724			0.96156	12.7567	8.29184	15.6496		
5	4	1	1	0.51404			0.09276	0.13922	0.0905	3.94535		
6	5	1	1	1.2337			0.22262	0.33414	0.21719	9.46885		
7	6	1	1	3.12708			0.56429	0.84695	0.55052	24.0009		
8	7	1	1	3.12708			0.56429	0.84695	0.55052	24.0009		
9	8	1	1	0.08269			0.01071	0.85098	0.55313	1.33924		

Input formulas to calculate the emission of SO4 and NO3.

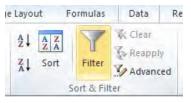
SO4 Emission =SO2 Emission x conversion ratio from SO2 to SO4 x 96/64

SO2 Emission = SO2 Emission x (1- conversion ratio from SO2 to SO4)

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6	5	1	. 1	1.2337	1.17201	0.09445	0.22262	0.33414	0.21719	0.00039	9.46885		
7	6	1	1	3.12708	2.97073	0.23942	0.56429	0.84695	0.55052	0.00099	24.0009		
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NO3 Emission =PM10) Emission v NO3	contribution ratio by	composition	analysis of PM10
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Click [Filter] in "Data" tab and add filter function to the first row.



Select " $\mathbf{\nabla}$ " at [X_m] and [Y_m] and filter in calculation range in east-west and south-north directions.

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Select " $\mathbf{\nabla}$ " at [SO2_TPY] and filter to point source that SO2 emission is not zero.

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Copy the point sources generated by filter function and paste them on another sheet, and set the name of each sheet to "13b" and "13d".

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4	3	500	15	266.15	7.86667	640813	5312329	1	1	1	1	. 1	. 0)
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7	6	500	10	79.55	6.1	639606	5311593	1	1	1	1	. 1	. 0)
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9	8	400	14	76.0333	18.6833	635879	5307670	1	1	1	1	. 1	1	
10	9	400	14.6	76.0333	18.6833	635862	5307608	1	1	1	1	. 1	. 1	
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Using the "13b" sheet, create the string information on point sources (13b) among CALPUFF input data. First, delete monthly operation patterns that are unnecessary for creating "13b".

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1	ID1	Diameter_	height	Temperati	Velocity_c	X_m	Y_m	SO2_TPY	SO2_corr	SO4	NOx_TPY	Dust_TPY	PM10_TP	NO3
2	1	400	10	98.2667	8.23333	641036	5312456	3.75252	3.56489	0.2873	0.47707	0.42006	0.27304	0.00049
3	2	250	10	98.2667	8.23333	641036	5312456	3.75252	3.56489	0.2873	0.47707	0.42006	0.27304	0.00049
4	3	500	15	266.15	7.86667	640813	5312329	3.60724	3.42688	0.27618	0.96156	12.7567	8.29184	0.01493
5	4	500	15	79.55	6.1	639599	5311623	0.51404	0.48834	0.03936	0.09276	0.13922	0.0905	0.00016
6	5	500	15	79.55	6.1	639599	5311623	1.2337	1.17201	0.09445	0.22262	0.33414	0.21719	0.00039
7	6	500	10	79.55	6.1	639606	5311593	3.12708	2.97073	0.23942	0.56429	0.84695	0.55052	0.00099
8	7	500	10	79.55	6.1	639606	5311593	3.12708	2.97073	0.23942	0.56429	0.84695	0.55052	0.00099
9	8	400	14	76.0333	18.6833	635879	5307670	0.08269	0.07856	0.00633	0.01071	0.85098	0.55313	0.001
10	9	400	14.6	76.0333	18.6833	635862	5307608	0.1329	0.12626	0.01018	0.01722	1.36764	0.88897	0.0016
11	10	400	13	76.0333	18.6833	635772	5307719	0.11075	0.10521	0.00848	0.01435	1.1397	0.7408	0.00133
12	11	800	13	76.0333	18.6833	635539	5307622	0.07383	0.07014	0.00565	0.00956	0.7598	0.49387	0.00089
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Three columns are added to the sheet on which the data is copied, and value of elevation data for each grid according to the coordinates is extracted. Calculate the grid positions specified by the coordinates in the first two columns, and enter an equation to calculate the value of elevation data by grid referenced from "sheet1-1" according to these values in the last one column.

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6	500	10	79.55	6.1	639606	5311593	639	5311	1366	3.12708	2.97073	0.23942	(
7	500	10	79.55	6.1	639606	5311593	639	5311	1366	3.12708	2.97073	0.23942	(
8	400	14	76.0333	18.6833	635879	5307670	635	5307	1269.5	0.08269	0.07856	0.00633	(
9	400	14.6	76.0333	18.6833	635862	5307608	635	5307	1269.5	0.1329	0.12626	0.01018	(
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Capacity Development Project for Air Pollution Control in Ulaanbaatar City Phase 2 Mongolia Technical Manual 08 Manual for Conducting and Updating of Dispersion Simulation

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3	2	2	250	10	98.2667	8.23333	641036	5312456	641	5312	1350.5	3.75252	3.56489	0.28
4	3	3	500	15	266.15	7.86667	640813	5312329	640	5312	1398	3.60724	3.42688	0.276
5	4	4	500	15	79.55	6.1	639599	5311623	639	5311	1366	0.51404	0.48834	0.039
5	5	5	500	15	79.55	6.1	639599	5311623	639	5311	1366	1.2337	1.17201	0.094
7	6	6	500	10	79.55	6.1	639606	5311593	639	5311	1366	3.12708	2.97073	0.239
8	7	7	500	10	79.55	6.1	639606	5311593	639	5311	1366	3.12708	2.97073	0.239
9	8	8	400	14	76.0333	18.6833	635879	5307670	635	5307	1269.5	0.08269	0.07856	0.006
0	9	9	400	14.6	76.0333	18.6833	635862	5307608	635	5307	1269.5	0.1329	0.12626	0.010
1	10	P 10	400	13	76.0333	18.6833	635772	5307719	635	5307	1269.5	0.11075	0.10521	0.008
•	► H		ion_2015 /	Sheet1-1	L 3b / 13d /	2/			[] ◀					Þ

Create string of information on point source to be inserted in CALPUFF input file. Input the formulas to each column as follows. The contents of "<>" are column names, and when entering these formulas, specify the corresponding cell.

=CONCATENATE(<UID>,"! SRCNAM = stac",TEXT(<ID1>,"0000")," !")

=CONCATENATE($\langle UID \rangle$,"! SIGYZI = 1000⁷,20⁸ !")

=CONCATENATE(<UID>,"! ZPLTFM = 0 !")

=CONCATENATE(<UID>,"! FMFAC = 1.0 !")

!END!

⁷ Set 1000 in power plant and 800 in HOB.

⁸ Set 20 in PP2 and PP3 (75 t/h), 30 in PP3 (220t/h), 100 in PP4 and Amgalan Heat Supply Station, and 70 in HOB.

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1	UID	ID1	CO_TPY							=
2	1	1	9.25038	1! SRCNAM = stac0001 !	1! X = 641.0362324,5312.4	1! SIGYZI = 800,70 !	1! ZPLTFN	1! FMFAC	!END!	
3	2	2	9.25038	2! SRCNAM = stac0002 !	2! X = 641.0362324,5312.4	2! SIGYZI = 800,70 !	2! ZPLTFN	2! FMFAC	!END!	
4	3	3	15.6496	3! SRCNAM = stac0003 !	3! X = 640.8134043,5312.3	3! SIGYZI = 800,70 !	3! ZPLTFN	3! FMFAC	!END!	
5	4	4	3.94535	4! SRCNAM = stac0004 !	4! X = 639.5988574,5311.6	4! SIGYZI = 800,70 !	4! ZPLTFN	4! FMFAC	!END!	
6	5	5	9.46885	5! SRCNAM = stac0005 !	5! X = 639.5988574,5311.6	5! SIGYZI = 800,70 !	5! ZPLTFN	5! FMFAC	!END!	
7	6	6	24.0009	6! SRCNAM = stac0006 !	6! X = 639.6062379,5311.5	6! SIGYZI = 800,70 !	6! ZPLTFN	6! FMFAC	!END!	
8	7	7	24.0009	7! SRCNAM = stac0007 !	7! X = 639.6062379,5311.5	7! SIGYZI = 800,70 !	7! ZPLTFN	7! FMFAC	!END!	
9	8	8	1.33924	8! SRCNAM = stac0008 !	8! X = 635.8792141,5307.6	8! SIGYZI = 800,70 !	8! ZPLTFN	8! FMFAC	!END!	
10	9	9	2.15235	9! SRCNAM = stac0009 !	9! X = 635.8615862,5307.6	9! SIGYZI = 800,70 !	9! ZPLTFN	9! FMFAC	IEND!	
11	10	10		10! SRCNAM = stac0010 !	10! X = 635.7716535,5307.		10! ZPLTF	10! FMFA	!END!	-
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Copy the created strings and paste them the relevant part of CALPUFF input file.

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198 197 265 10.9557 197/ SRCNAM = star02651 197/ X = 642.8676394,531197/ SIGV2I = 800,701 197/ ZPLT 197/ FMG IENG	1975 11 SPCNAM - 0100001 1 11 Y - 641 0262224 5212 4562200 10 1250 5 0 4 9 222 3
99 198 267 2.81505 198/ SRONAM = stac0267 (198/ 1 = 642.8921922.531198/ SRGYZI = 800.70 (198/ 2PL/ 198/ HM- HM	1376 2! SRCNAM = stac0002 ! 2! X = 641.0362324, 5312, 4562399, 10, 1350, 5, 0, 4, 6, 233, 1376 2! SRCNAM = stac0002 ! 2! X = 641.0362324, 5312, 4562399, 10, 1350, 5, 0, 25, 8, 233, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
00 199 268 9.20606 1991 SRCNAM = stat0268 F 1991 X = 642.839577.531 (1991 SIGY2I = 800,70 F 1991 2PL (1591 FM), FMC	101 T20 T 3 0 0001 31 003T000 01010 010 010 010 1 0000 1 1 0000 0 T 3 07 500
01 200 269 9.20606 2001 SRCNAM = stac0269 1 2001 x = 642.839577.531+2001 SIGYZI = 800,70 2001 ZPLT 2001 FMF. IENC	
22 201 270 5.63011 201 SRCNAM = stat02701 201 X = 642.9098848,5312011 SIGYZI = 800,701 2011 ZPLT 201 FMF. (ENC	
202 271 20.5678 202! SRCNAM = stac0271 202! X = 642.1513918;53:202! SIGYZI = 800;70 202! ZPLT 202! FMF. FMF.	
203 272 2.0517 203 SRCNAM = stac0272 1 203 X = 641.8671509;5312031 SIGYZI = 800,701 2031 ZPLT 2031 FMI, IENC	
204 273 3.08517 204/ SRCNAM - stac0273 204/ X - 641.8156422,531204/ SIGYZI - 800,70 204/ ZPLT 204/ FMF. / ENC	
6 205 274 9.85268 2051 SRCNAM = star02741 2051 X = 643.2698727,5312051 SIGYZI = 800,701 2051 2PLT 2051 FMT. IEW.	
17 206 275 9.85268 206 SRCNAM - stac0275 1 206 X = 643.2698727,5312061 SIGYZI - 800,70 1 2061 ZPLT 2061 FMT. IEND	1383 9! SRCNAM = stac0009 ! 9! X = 635.8615862,5307.6079752,14.6.1269.5.0.4,18.6
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Source ID and monthly operating pattern is the only necessary column, so delete other lines.

Insert a column before [ID] column and add serial number.

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1	UID	ID1	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Oct	NOV	DEC_
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5	4	4	1	1	1	1	1	0	0	0	1	1	1	2
6	5	5	1	1	1	1	1	0	0	0	1	1	1	1
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11	10	10	1	1	1	1	1	1	1	1	1	1	1	1
12	11	11	1	1	1	1	1	1	1	1	1	1	1	

Create strings by pollutant setting operating pattern.

=CONCATENATE(<UID>,"! SRCNAM = stac",TEXT(<ID1>,"0000")," !")

=CONCATENATE(<UID>,"! IVARY = 2 !")

=CONCATENATE(<UID>,"! <Pollutant> = ",TEXT(<JAN>,"0.0000"),", ",TEXT(<FEB>,"0.0000"),",",TEXT(<MAR>,"0.0000"),",",TEXT(<APR>,"0.0000"),",",TEXT(<MAY>,"0.0 000"),",",TEXT(<JUN>,"0.0000"),",",TEXT(<JUL>,"0.0000"),",",TEXT(<AUG>,"0.0000"),",",TEXT(<SEP> ,"0.0000"),",",TEXT(<OCT>,"0.0000"),",",TEXT(<NOV>,"0.0000"),",",TEXT(<DEC>,"0.0000")," !") !END!

Since operating pattern needs to be created by pollutant, definition of "Unique ID" differs.

Pollutant	Unique ID
SO2	(<uid>-1)*7+1</uid>
SO4	(<uid>-1)*7+2</uid>
NOX	(<uid>-1)*7+3</uid>
NO3	(<uid>-1)*7+4</uid>
TSP	(<uid>-1)*7+5</uid>
PM10	(<uid>-1)*7+6</uid>
СО	(<uid>-1)*7+7</uid>

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2	1	1	1	1! SRCNAM = stac0001 !	1! IVARY = 2 !	1! SO2 = 1,1,1	,1,1,0,0,0,1,1,1,1 !	!END!	2! SRCNAI	2! 1
3	2	2	1	8! SRCNAM = stac0002 !	8! IVARY = 2 !	8! SO2 = 1,1,1	,1,1,0,0,0,1,1,1,1 !	!END!	9! SRCNAI	9! 1\
4	3	3	1	15! SRCNAM = stac0003 !	15! IVARY = 2 !	15! SO2 = 1,1,	,1,1,1,0,0,0,1,1,1,1 !	!END!	16! SRCN/	16!
5	4	4	1	22! SRCNAM = stac0004 !	22! IVARY = 2 !	22! SO2 = 1,1,	,1,1,1,0,0,0,1,1,1,1 !	!END!	23! SRCN/	23!
5	5	5	1	29! SRCNAM = stac0005 !	29! IVARY = 2 !	29! SO2 = 1,1,	,1,1,1,0,0,0,1,1,1,1 !	!END!	30! SRCN/	30!
7	6	6	1	36! SRCNAM = stac0006 !	36! IVARY = 2 !	36! SO2 = 1,1,	,1,1,1,0,0,0,1,1,1,1 !	!END!	37! SRCN/	37!
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;	4	4	1	22! SRCNAM = stac0004 !	22! IVARY = 2 !	22! SO2 = 1,1,1,1,1,0,0,0,1,1,1,1 !	!END!	23! SRCN/	23!
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5.2 Area Source

Open the Excel file in export destination folder and the file of elevation data by grid (UB_altitude.xlsx).

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Copy "sheet1-1" of "UB_altitude.xlsx" to the Excel file in export destination folder

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Add columns to calculate the emissions of SO2, SO4 and NO3.

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2	70025	7	25	617000	5305000	0.43347		1	0.10359	0.88659	0.57628		7.66343			
3	70026	7	26	617000	5306000	0.31098			0.07432	0.63606	0.41344		5.49795			
4	70027	7	27	617000	5307000	0.06765			0.01617	0.13836	0.08993		1.19593			
5	70028	7	28	617000	5308000	0.72186			0.17251	1.47642	0.95967		12.7618			
6	80025	8	25	618000	5305000	0.68444			0.16357	1.39989	0.90993		12.1003			
7	80026	8	26	618000	5306000	1.40096			0.33481	2.8654	1.86251		24.7678			
8	80027	8	27	618000	5307000	2.25095			0.53795	4.60389	2.99253		39.7949			
9	80028	8	28	618000	5308000	0.3026			0.07232	0.61891	0.40229		5.34972			
10	90013	9	13	619000	5293000	0.10863			0.02625	0.21095	0.13712		1.87947			
11	90026	9	26	619000	5306000	18.7668			5.00217	52.3754	34.0451		417.398			
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Input formulas to calculate the emission of SO4 and NO3.

SO4 Emission =SO2 Emission x conversion ratio from SO2 to SO4 x 96/64

SO2 Emission = SO2 Emission x (1- conversion ratio from SO2 to SO4)

NO3 Emission =PM10 Emission x NO3 contribution ratio by composition analysis of PM10

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2	70025	7	25	617000	5305000	0.43347	0.4118	0.03319	0.10359	0.88659	0.57628	0.00046	7.66343			
3	70026	7	26	617000	5306000	0.31098	0.29544	0.02381	0.07432	0.63606	0.41344	0.00033	5.49795			
4	70027	7	27	617000	5307000	0.06765	0.06426	0.00518	0.01617	0.13836	0.08993	7.2E-05	1.19593			
5	70028	7	28	617000	5308000	0.72186	0.68576	0.05527	0.17251	1.47642	0.95967	0.00077	12.7618			
6	80025	8	25	618000	5305000	0.68444	0.65021	0.0524	0.16357	1.39989	0.90993	0.00073	12.1003			
7	80026	8	26	618000	5306000	1.40096	1.33091	0.10726	0.33481	2.8654	1.86251	0.00149	24.7678			
8	80027	8	27	618000	5307000	2.25095	2.1384	0.17234	0.53795	4.60389	2.99253	0.00239	39.7949			
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7	80025	8	25		5306000	1.40096				2.8654		0.00073	24.7678			
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2	70025	7	25	617000	5305000	0.43347	0.4118	0.03319	0.10359	0.88659	0.57628	0.00046	7.66343			
3	70026	7	26	617000	5306000	0.31098	0.29544	0.02381	0.07432	0.63606	0.41344	0.00033	5.49795			
4	70027	7	27	617000	5307000	0.06765	0.06426	0.00518	0.01617	0.13836	0.08993	7.2E-05	1.19593			
5	70028	7	28	617000	5308000	0.72186	0.68576	0.05527	0.17251	1.47642	0.95967	0.00077	12.7618			
6	80025	8	25	618000	5305000	0.68444	0.65021	0.0524	0.16357	1.39989	0.90993	0.00073	12.1003			
7	80026	8	26	618000	5306000	1.40096	1.33091	0.10726	0.33481	2.8654	1.86251	0.00149	24.7678			
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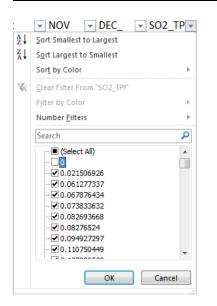
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	: (Select All)		<u>G</u> reater Than	
	···· 🗹 617000	=	Greater Than <u>O</u> r Equal To	
	618000 619000		Less Than	
			- Less Than Or Egual To	
	- 621000			tom AutoFilter
	622000		Sh	w rows where: X.m
	C 623000 C 624000		<u>T</u> op 10	is greater than or equal to 💌 623000
	625000		Above Average	R and O gr
		*	Bel <u>o</u> w Average	is less 8 ann 🔹 657000 💌
	ОК	Cancel		2 to represent any single characters ** to represent any series of characters
	UK		5306000 11.0322 10.4	OK Canod
	n – Row – MinX	J MinY 🗸	TPY_SO - SO2_co - SO4	
AZ↓	Sort Smallest to Largest		0.02776 0.02638 0.002	
Z A	Sort Largest to Smallest		0.05445 0.05173 0.004	
	Sor <u>t</u> by Color		2.58858 2.45915 0.198	
K	Clear Filter From "MinY"		1.89892 1.80397 0.145	
	Filter by Color		0.7335 0.69682 0.056	
	Number Filters	•	Equals	
	_	0	Does Not Equal	
	Search	Q		
	(Select All)	<u>^</u>	<u>G</u> reater Than	
	5293000 5294000	=	Greater Than Or Equal To	
	✓ 5295000		Less Than	
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	5299000			w.rows.where: Y_m
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	····· 🕶 5302000			
	5302000	Ψ.	Bel <u>o</u> w Average	
		+ Cancel	Us	2 to represent any series of duracters

Select " $\mathbf{\nabla}$ " at [SO2_TPY] and filter to grid that SO2 emission is not zero.



Only rows extracted by the above filter function are displayed

XI	- 9 - (* -	- -			Ge	erEmisByKhord	oo_2015_ByGri	d.xlsx - Micros	soft Excel					• X	-
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	E1	• (*	f _x	MinY											`
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1	IXIY 🔄	Column -	Row 💌	MinX 🖵	MinY 🖵	TPY_SO 💌	SO2_co 🔻	SO4 💌	TPY_NO -	TPY_TSF -	TPY_PN -	NO3 💌	TPY_CO -		L
44	130019	13	19	623000	5299000	0.03413	0.03242	0.00261	0.00843	0.06081	0.03953	3.2E-05	0.57226		
45	130020	13	20	623000	5300000	3.50941	3.33394	0.26869	0.86703	6.25358	4.06483	0.00325	58.8499		
46	130021	. 13	21	623000	5301000	0.6681	0.63469	0.05115	0.16506	1.19052	0.77384	0.00062	11.2035		
47	130027	13	27	623000	5307000	0.19457	0.18484	0.0149	0.0465	0.39795	0.25867	0.00021	3.43982		
48	130028	13	28	623000	5308000	0.46816	0.44476	0.03584	0.11188	0.95754	0.6224	0.0005	8.27674		
54	140020	14	20	624000	5300000	2.41406	2.29336	0.18483	0.59642	4.30173	2.79613	0.00224	40.4819		
55	140021	. 14	21	624000	5301000	4.12818	3.92177	0.31606	1.01991	7.3562	4.78153	0.00383	69.2263		
56	140022	14	22	624000	5302000	0.53858	0.51165	0.04124	0.13306	0.95972	0.62382	0.0005	9.03157		
57	140024	14	24	624000	5304000	1.13164	1.07506	0.08664	0.27958	2.01653	1.31074	0.00105	18.9767		
58	140025	14	25	624000	5305000	0.00231	0.0022	0.00018	0.00057	0.00412	0.00268	2.1E-06	0.03878		
4	🕨 🕨 🛛 GerEr	nisByKhoroo	_2015_ByG	rid / Sheet1-	1 / 🞾 /		1	1						►	
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Copy the grids generated by filter function and paste them on another sheet, and set the name of each sheet to "14b", "14c", and "14d".

	a 🔊 - (° -	▼			Ge	rEmisByKhord	oo_2015_ByGrid	d.xlsx - Micros	soft Excel					• X
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	B2	- (*)	f_{x}	13										*
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1	IXIY	Column_	Row	MinX	MinY	TPY_SO2	SO2_corr	SO4	TPY_NOx	TPY_TSP	TPY_PM10	NO3	TPY_CO	
2	130019	13	19	623000	5299000	0.03413	0.03242	0.00261	0.00843	0.06081	0.03953	3.2E-05	0.57226	
3	130020	13	20	623000	5300000	3.50941	3.33394	0.26869	0.86703	6.25358	4.06483	0.00325	58.8499	
4	130021	13	21	623000	5301000	0.6681	0.63469	0.05115	0.16506	1.19052	0.77384	0.00062	11.2035	
5	130027	13	27	623000	5307000	0.19457	0.18484	0.0149	0.0465	0.39795	0.25867	0.00021	3.43982	
6	130028	13	28	623000	5308000	0.46816	0.44476	0.03584	0.11188	0.95754	0.6224	0.0005	8.27674	
7	140020	14	20	624000	5300000	2.41406	2.29336	0.18483	0.59642	4.30173	2.79613	0.00224	40.4819	
8	140021	14	21	624000	5301000	4.12818	3.92177	0.31606	1.01991	7.3562	4.78153	0.00383	69.2263	
9	140022	14	22	624000	5302000	0.53858	0.51165	0.04124	0.13306	0.95972	0.62382	0.0005	9.03157	
10	140024	14	24	624000	5304000	1.13164	1.07506	0.08664	0.27958	2.01653	1.31074	0.00105	18.9767	
11	140025	14	25	624000	5305000	0.00231	0.0022	0.00018	0.00057	0.00412	0.00268	2.1E-06	0.03878	-
14 4			2015_ByGrid		1 14b / 1	4c / 14d /	2							•
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Using the "14b" sheet, create the string information on area sources (14b) among CALPUFF input data. First, add two columns and create the source name.

	- 9 - (* -	↓			Gerf	EmisByKhoroo	_2015_ByGrid.a	dsx - Microso	ft Excel					
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	E2	- (0	f_{x}	CONCATEN	ATE("grd",TEX	(T(D2,"00000	"))							×
	А	В	С	D	E	F	G	Н	1	J	К	L	Μ	N^
1	IXIY	Column_	Row	UID	SourceNam	MinX	MinY	TPY_SO2	SO2_corr	SO4	TPY_NOx	TPY_TSP	TPY_PM1	(NO3
2	130019	13	19	1	grd00001	623000	5299000	0.03413	0.03242	0.00261	0.00843	0.06081	0.03953	3.2
3	130020	13	20	2	grd00002	623000	5300000	3.50941	3.33394	0.26869	0.86703	6.25358	4.06483	0.00
4	130021	13	21	3	grd00003	623000	5301000	0.6681	0.63469	0.05115	0.16506	1.19052	0.77384	0.00
5	130027	13	27	4	grd00004	623000	5307000	0.19457	0.18484	0.0149	0.0465	0.39795	0.25867	0.00
6	130028	13	28	5	grd00005	623000	5308000	0.46816	0.44476	0.03584	0.11188	0.95754	0.6224	0.0
7	140020	14	20	6	grd00006	624000	5300000	2.41406	2.29336	0.18483	0.59642	4.30173	2.79613	0.00
8	140021	14	21	7	grd00007	624000	5301000	4.12818	3.92177	0.31606	1.01991	7.3562	4.78153	0.00
9	140022	14	22	8	grd00008	624000	5302000	0.53858	0.51165	0.04124	0.13306	0.95972	0.62382	0.0
10	140024	14	24	9	grd00009	624000	5304000	1.13164	1.07506	0.08664	0.27958	2.01653	1.31074	0.00
11	140025	14	25	10	grd00010	624000	5305000	0.00231	0.0022	0.00018	0.00057	0.00412	0.00268	2.11
14 4		misByKhoroo_	2015_ByGrid	/ Sheet1-	1 14b 140	c / 14d / 🐮	1/	Į	4					•
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Three columns are added to the sheet on which the data is copied, and value of elevation data for each grid according to the coordinates is extracted. Calculate the grid positions specified by the coordinates in the first two columns, and enter an equation to calculate the value of elevation data by grid referenced from "sheet1-1" according to these values in the last one column.

	- ") + (" -				Ger	EmisByKhoroo	_2015_ByGrid.>	dsx - Microsof	ft Excel					I X
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L	IXIY	Column_	Row	UID	SourceNam	MinX	MinY	GridX	GridY	Altitude	TPY_SO2	SO2_corr	SO4	TPY_
1	130019	13	19	1	grd00001	623000	5299000	623	5299	1234	0.03413	0.03242	0.00261	0.0
5	130020	13	20	2	grd00002	623000	5300000	623	5300	1480	3.50941	3.33394	0.26869	0.8
	130021	13	21	3	grd00003	623000	5301000	623	5301	1234	0.6681	0.63469	0.05115	0.1
	130027	13	27	4	grd00004	623000	5307000	623	5307	1292	0.19457	0.18484	0.0149	0
	130028	13	28	5	grd00005	623000	5308000	623	5308	1332	0.46816	0.44476	0.03584	0.1
	140020	14	20	6	grd00006	624000	5300000	624	5300	1584.5	2.41406	2.29336	0.18483	0.5
	140021	14	21	7	grd00007	624000	5301000	624	5301	1245	4.12818	3.92177	0.31606	1.0
	1/0022	11	22	Q.	ardnoons	624000	5202000	624	5202	1728 7	0 52858	0 51165	0.04124	01
	ty 2	misByKhoroo	_2015_ByGrid	Sheet1-	1 14b 14	c 14d 😢		<u> </u>	4	100		115% -		6
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í	A	В	С	D	E	F	G	Н	4	J	К	1	M	
	IXIY	Column_	Row	UID	SourceNam	MinX	MinY	GridX	GridY	Altitude	TPY_SO2	SO2_corr	SO4	TPY
ľ	130019	13	19	1	grd00001	623000	5299000	623	5299	1234	0.03413	0.03242	0.00261	0.0
	130020	13	20	2	grd00002	623000	5300000	623	5300	1480	3.50941	3.33394	0.26869	0.8
	130021	13	21	3	grd00003	623000	5301000	623	5301	1234	0.6681	0.63469	0.05115	0.1
	130027	13	27	4	grd00004	623000	5307000	623	5307	1292	0.19457	0.18484	0.0149	0
	130028	13	28	5	grd00005	623000	5308000	623	5308	1332	0.46816	0.44476	0.03584	0.1
	140020	14	20	6	grd00006	624000	5300000	624	5300	1584.5	2.41406	2.29336	0.18483	0.5
	140021	14	21	7	grd00007	624000	5301000	624	5301	1245	4.12818	3.92177	0.31606	1.0
	1/10022	11	22	Q	ard00008	624000	5202000	624	5202	1728 7	0 52858	0 51165	0.04124	0 1
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1	- ") • (" -	-			Ger	EmisByKhoroo	_2015_ByGrid.>	dsx - Microsof	ft Excel				- 5	3
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	J2	• (*	f _x	=VLOOKUP(I	2,'Sheet1-1'!	\$A\$1:\$AI\$29,	H2-621)							
í	A	В	С	D	E	F	G	Н	4	J	К	1	M	
	IXIY	Column	Row	UID	SourceNam	MinX	MinY	GridX	GridY	Altitude	TPY SO2	SO2 corr	SO4	TPY
	130019	13	19	1	grd00001	623000	5299000	623	5299	1234	0.03413	0.03242	0.00261	0.0
	130020	13	20		grd00002	623000	5300000	623	5300	1480	3.50941	3.33394	0.26869	0.8
	130021	13	21		grd00003		5301000	623	5301	1234	0.6681	0.63469	0.05115	
	130027	13	27		grd00004		5307000	623	5307	1292	0.19457	0.18484	0.0149	0
	130028	13	28		grd00005		5308000	623	5308	1332	0.46816	0.44476	0.03584	0.1
	140020	14	20		grd00006		5300000	624	5300	1584.5	2.41406	2.29336	0.18483	0.5
	140021	14	21		grd00007		5301000	624	5301	1245	4.12818	3.92177	0.31606	
	1/0022	1/	22	8	ardonog	624000	5302000	624	5202	1728 7	0 52858	0 51165	0.04124	0.1
	E H GerE	misByKhoroo	2015 ByGrid	Sheet1-	1 14b 14	c 14d %			4	10				1

Create string of information on point source to be inserted in CALPUFF input file. Input the formulas to each column as follows. The contents of "<>" are column names, and when entering these formulas, specify the corresponding cell.

=CONCATENATE(D2," ! SRCNAM = ",E2," !")

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	T2	• (**		=CONCATENA 365*24*3600), 24*3600),"0.00	"0.00000E	E+00"),",",1	EXT(22/(365	;*24*3600),"	0.00000E+00	"),",0,",TEXT					
	А	Q	R		S			Т	U	V	W	Х	Y	Z	AA	AB
1	IXIY	NO3	TPY_CO													
2	130019	3.2E-05	0.57226	1 ! SRCNAN	1 = grd0(0001!	1!	X = 5,1	234,50,1.0)2801E-09	,8.28494E-	11,2.67347	'E-10,1.00	270E-12,0,:	1.92827E-0	9,1.25
3	130020	0.00325	58.8499	2 ! SRCNAN	1 = grd00	0002 !	2 !	X = 5,1	480,50,1.0	05718E-07	,8.52007E-	09,2.74934	E-08,1.03	116E-10,0,:	1.98300E-0	7,1.28
4	130021	0.00062	11.2035	3 ! SRCNAN	1 = grd00	0003 !	3!	X = 5,1	234,50,2.0	01260E-08	,1.62199E-	09,5.23401	E-09,1.96	305E-11,0,	3.77510E-0	8,2.453
5	130027	0.00021	3.43982	4 ! SRCNAN	1 = grd00	0004 !	4!	X = 5,1	292,50,5.	36127E-09	,4.72372E-	10,1.47448	E-09,6.56	192E-12,0,:	1.26191E-0	8,8.202
6	130028	0.0005	8.27674	5 ! SRCNAN	1 = grd00	0005 !	5!	X = 5,1	332,50,1.4	1031E-08	,1.13660E-	09,3.54784	E-09,1.57	890E-11,0,3	3.03634E-0	8,1.97
7	140020	0.00224	40.4819	6 ! SRCNAN	1 = grd00	0006 !	6!	X = 5,1	584.5,50,	7.27219E-0	8,5.86081	E-09,1.891	22E-08,7.0	9316E-11,0),1.36407E	-07,8.8
8	140021	0.00383	69.2263	7 ! SRCNAN	1 = grd00	0007 !	7!	X = 5,1	245,50,1.	24358E-07	,1.00223E-	08,3.23410	E-08,1.21	297E-10,0,	2.33264E-0)7,1.51€
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Copy the created strings and paste them the relevant part of CALPUFF input file.

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15 • 1 6 - CONCATEMATEOR [19/0540 + 782 * []	1521 1522 1 1 SRCNAM = grd00001 1 1 X = 5,1234,50,1.02801E-09,8.28494E-11,2.67347E-1(1523 2 1 SRCNAM = grd00002 1 2 1 X = 5,1480,50,1.05718E-07,8.52007E-09,2.74934E-05
A G F T U W Parameter T S. A Parameter 100 100 779 (JB 789 (JB 780	1624 3 1. SRCHAM = grd00003 1 3 1. X = 5 1242 50.2 0.20260E-08.1 62199E-09.5 22401E-00 1525 4 SRCHAM = grd00005 5 1. X = 5 1222.5 50.5 86127E-08.1 23727E-10.1 4.7448E-00 1526 6 SRCHAM = grd00005 5 1. X = 5 1.332.5 0.1 41031E-08.1 .3660E-09.3 54784E-00 1526 6 SRCHAM = grd00005 1 X = 5 .1332.5 0.1 .41031E-08.1 .3660B1E-09.1 .84784E-00 1528 1 SRCHAM = grd00007 1 X = 5 .1355.5 .1 .4358E-09.8 .8122E- 1528 1 SRCHAM = grd00007 1 X = 5 .1328.5 .1 .30756E-09.4 .2132E-08.2 .21416E-05 .1 .1 .1 .1 .1 .2135E-10.4 .2132E-09.8 .2132E-10.2 .2132E-10.2 .2132E-10.2 .2132E-10.2 .2132E-10.2 .2132E-10.2 .2132E-10.2 .2133E-10.2 .

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Since boundary between cells is pasted as tab, replace tab with new line.

		[🗱 C.WCALPUFF_USEPA_ApproveSHCALPUFFWCRUF_ger_CH2_2015.thP (長年)、青年
			ファイル(F) 編集(I) 表示(V) 構成(I) フィンドウ(W) マクロ(H) その他(D) 1530:1
■ 置換 検索(S):	*티 ~ 기 [王 検索(P) Sbift+F3	1511 Subgroup (14b) a 1513 AREA SOURCE: CONSTANT DATA a 1516 b b 1517 Effect. Base Initial Emission b 1519 No. Height Elevation Sigma z Rates 1520 (m) (m)
置換(<u>E</u>):	222+pl +- 92(#)rth (0, 7, /1)	下検索(M) F8 全置換(A) キャンセル ヘルブ 変条文字列を強調(D)	1521
	⑦ 城沢(元和国内のみ(1)) ○次の秀九エディジも続けて置換(日) □一周する(2) □ 追加の条件(2)	置換の前に確認(<u>k</u>)	1529 4 ! X = 5, 1292, 50, 5. 86127E-09, 4. 72372E-10, 1. 47448E-09, 6. 56192E-12, 0, 1. 26191E-1530 5 1530 5 SRCNAM = grd00005, ! ↓ 1531 5 ! X = 5, 1332, 50, 1. 41031E-08, 1. 13660E-09, 3. 54784E-09, 1. 57890E-11, 0, 3. 03634E-1532 6 1532 6 ! SRCNAM = grd00006, ! ↓ #####: "#####: "#####: "#####: #########

Create of "14c".

Delete the columns other than the information on grid.

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	A	В	C	D	E	F	G	н	1	1	К	L	M	N	2 (*
1	IXIY	Column_	Row	MinX	MinY										
2	130019	13	19	623000	5299000									-	
3	130020	13	20	623000	5300000										
4	130021	13	21	623000	5301000										
5	130027	13	27	623000	5307000										
6	130028	13	28	623000	5308000										
7	140020	14	20	624000	5300000										
8	140021	14	21	624000	5301000										
9	140022	14	22	624000	5302000										
10	140024	14	24	624000	5304000										
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Add two columns and create the source name.

	F2	• (*	f _x	623000											
	A	В	C	D	E	F	G	Н	I	j	К	L	M	N	
1	IXIY	Column_	Row	UID	SourceName	MinX	MinY					1		1	
2	130019	13	19	1	grd00001	623000	5299000								
3	130020	13	20	2	2 grd00002	623000	5300000								
4	130021	13	21	з	3 grd00003	623000	5301000								
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7	140020	14	20	6	5 grd00006	624000	5300000								
8	140021	14	21	7	7 grd00007	624000	5301000								
9	140022	14	22	8	3 grd00008	624000	5302000								
0	140024	14	24	9	grd00009	624000	5304000								

Insert eight columns before [MinX] column and input column name and formula respectively. Column name and formula is as follows.

Column name	LTX	RTX	RBX	LBX	LTY	RTY	RBY	LBY
Contents	X of upper left	X of upper right	X of bottom right	X of bottom left	Y of upper left	Y of upper right	Y of bottom right	Y of bottom left
Formula	MinX/1000	LTX+1	RTX	LTX	MinY/1000+1	LTY	MinX/1000	RBY

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1	IXIY	Column_	Row	UID	SourceName	LTX	RTX	RBX	LBX	LTY	RTY	RBY	LBY	MinX	MinY	
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4	130021	13	21	3	grd00003	623	624	624	623	5302	5302	5301	5301	623000	5301000	
5	130027	13	27	4	grd00004	623	624	624	623	5308	5308	5307	5307	623000	5307000	
6	130028	13	28	3 5	grd00005	623	624	624	623	5309	5309	5308	5308	623000	5308000	
7	140020	14	20) 6	grd00006	624	625	625	624	5301	5301	5300	5300	624000	5300000	
8	140021	14	21	7	grd00007	624	625	625	624	5302	5302	5301	5301	624000	5301000	
9	140022	14	22	. 8	grd00008	624	625	625	624	5303	5303	5302	5302	624000	5302000	
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Create string of information on point source to be inserted in CALPUFF input file. Input the formulas to each column as follows. The contents of "<>" are column names, and when entering these formulas, specify the corresponding cell.

=CONCATENATE(<UID>,"! SRCNAM = ",<SourceName>," ! ")

=CONCATENATE(<UID>,"! XVERT = ",<LTX>,",",<RTX>,",",<RBX>,",",<LBX>," ! ")

=CONCATENATE(<UID>,"! YVERT = ",<LTY>,",",<RTY>,",",<RBY>,",",<LBY>," !")

!END!

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3	130020	5300	623000	5300000	2! SRCNAM = grd00002 !	2! XVERT = 623,624,624,623 !	2! YVERT = 5301,5301,5300,5300 !	!END!	
4	130021	5301	623000	5301000	3! SRCNAM = grd00003 !	3! XVERT = 623,624,624,623 !	3! YVERT = 5302,5302,5301,5301 !	!END!	
5	130027	5307	623000	5307000	4! SRCNAM = grd00004 !	4! XVERT = 623,624,624,623 !	4! YVERT = 5308,5308,5307,5307 !	!END!	
6	130028	5308	623000	5308000	5! SRCNAM = grd00005 !	5! XVERT = 623,624,624,623 !	5! YVERT = 5309,5309,5308,5308 !	!END!	
7	140020	5300	624000	5300000	6! SRCNAM = grd00006 !	6! XVERT = 624,625,625,624 !	6! YVERT = 5301,5301,5300,5300 !	!END!	
8	140021	5301	624000	5301000	7! SRCNAM = grd00007 !	7! XVERT = 624,625,625,624 !	7! YVERT = 5302,5302,5301,5301 !	!END!	
9	140022	5302	624000	5302000	8! SRCNAM = grd00008 !	8! XVERT = 624,625,625,624 !	8! YVERT = 5303,5303,5302,5302 !	!END!	
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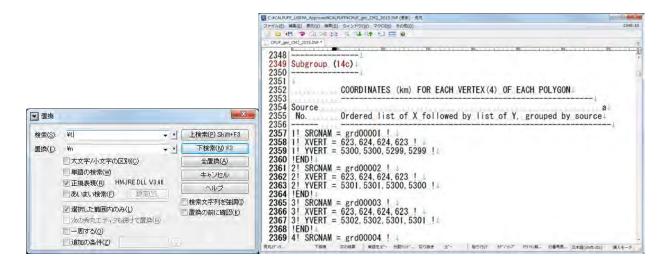
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6	130028	5308	623000	5308000	5! SRCNAM = grd00005 !	5! XVERT = 623,624,624,623 !	5! YVERT = 5309,5309,5308,5308 !	!END!	
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8	140021	5301	624000	5301000	7! SRCNAM = grd00007 !	7! XVERT = 624,625,625,624 !	7! YVERT = 5302,5302,5301,5301 !	!END!	
9	140022	5302	624000	5302000	8! SRCNAM = grd00008 !	8! XVERT = 624,625,625,624 !	8! YVERT = 5303,5303,5302,5302 !	!END!	
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Fil 1 2 3 4 5 6 7 8	E Home S2 A IXIY 130019 130020 130021 130027 130028 140020	Insert M LBY 5299 5300 5301 5307 5308 5300	fr N MinX 623000 623000 623000 623000 623000 623000 623000 624000 624000	IEND! O MinY 5299000 5300000 5301000 5307000 5308000 5300000 5301000	Data Review View P 11 SRCNAM = grd000001 ! 21 2! SRCNAM = grd00002 ! 31 SRCNAM = grd00003 ! 4! SRCNAM = grd00004 ! 51 SRCNAM = grd00005 ! 6! SRCNAM = grd00006 ! 100006 ! 1000006 !	Developer Acrobat Team Q II IVERT = 623,624,624,623 ! IVERT = 624,625,625,624 ! IVERT = 624,625,625,625 ! <td< td=""><td>R 1! YVERT = 5300,5300,5299,5299 ! 2! YVERT = 5301,5301,5300,5300 ! 3! YVERT = 5302,5302,5301,5301 ! 4! YVERT = 5308,5308,5307,5307 ! 5! YVERT = 5309,5309,5308,5308 ! 6! YVERT = 5301,5301,5300,5300 !</td><td>S IEND! IEND! IEND! IEND! IEND! IEND! IEND! IEND!</td><td>3 - 5</td></td<>	R 1! YVERT = 5300,5300,5299,5299 ! 2! YVERT = 5301,5301,5300,5300 ! 3! YVERT = 5302,5302,5301,5301 ! 4! YVERT = 5308,5308,5307,5307 ! 5! YVERT = 5309,5309,5308,5308 ! 6! YVERT = 5301,5301,5300,5300 !	S IEND! IEND! IEND! IEND! IEND! IEND! IEND! IEND!	3 - 5
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Copy the created strings and paste them the relevant part of CALPUFF input file.

	B CKPRA Way Object Order Op St Oct 14779 (Sb) 197
	23604 MB(F 8500 9804 24014 2000) 22004 20000 22004
	* 042105_UD_w_#40
	2348
	2349 Subgroup (14c)
	2350
	2351
	2352 COORDINATES (km) FOR EACH VERTEX (4) OF EACH POLYGON
	2353
	2354 Source al
	2355 No. Ordered list of X followed by list of Y, grouped by source
	2356
	2357 1! SRCNAM = grd00001 ! 1! XVERT = 623, 624, 624, 623 ! 1! YVERT = 5300, 5300,
	2358 21 SRCNAM = grd00002 1 21 XVERT = 623, 624, 624, 623 1 21 YVERT = 5301, 5301,
2 d 4 - c Sector Mana, 20) (Sector Mana, 20) (Sector Mana, 20)	2359 31 SRCNAM = grd00003 1 31 XVERT = 623, 624, 624, 623 1 31 YVERT = 5302, 5302.
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International Contraction (Contraction)	2361 5! SRCNAM = grd00005 ! 5! XVERT = 523, 524, 524, 523 ! 5! YVERT = 5308, 5309,
	2362 6! SRCNAM = grd00006 ! 6! XVERT = 623, 624, 623, 624 ! 6! VVERT = 5303, 5303, 3303, 2362 6! SRCNAM = grd00006 ! 6! XVERT = 624, 625, 625, 624 ! 6! VVERT = 5301, 5301, 301, 301, 301, 301, 301, 301, 301,
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450, 450037 3307 656000 5307000 4631 SRCIVAN - grd00403.1 4011 XVFRT - 656 857 657 6561 4011 VVFRT - 3108 5308,5307 51671 11N01	2365 9! SRCNAM = grd00009 ! 9! XVERT = 624. 625. 625. 624 ! 9! YVERT = 5305. 5305.
125 A50028 5305 656000 5308000 1041 SRCHAM - grd004041 A011 XVEHT - 636,657,657,656 1 4041 VVEHT - 5309,5309,5308 5108 1 HINDI	2366 10! SRCNAM = grd00010 ! 10! XVERT = 624, 625, 625, 624 ! 10! YVERT = 5
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Since boundary between cells is pasted as tab, replace tab with new line.



Create of "14d"

Grid number, column number, and row number is the only necessary column, so delete other lines.

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Add two columns at the end and create the source name.

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6	130028	13	28		5 grd00005											
7	140020	14	20		6 grd00006											
8	140021	14	21		7 grd00007											
9	140022	14	22		8 grd00008											
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Create strings by pollutant setting operating pattern.

=CONCATENATE(<Unique ID>," ! SRCNAM = ",<SourceName>," !")

=CONCATENATE(<Unique ID>," ! IVARY = 3 !")

=CONCATENATE(<Unique ID>," ! <Pollutant> = <Winter1>, <Winter2>, <Winter3>, <Winter4>, <Winter5>, <Winter6>, <Winter7>, <Winter8>, <Winter9>, <Winter10>, <Winter11>, <Winter12>,")

<Winter13>, <Winter14>, <Winter15>, <Winter16>, <Winter17>, <Winter18>, <Winter19>,<Winter20>, <Winter21>, <Winter22>, <Winter23>, <Winter24>,

<Spring1>, <Spring2>, <Spring3>, <Spring4>, <Spring5>, <Spring6>, <Spring7>, <Spring8>, <Spring9>, <Spring10>, <Spring11>, <Spring12>,

<Spring13>, <Spring14>, <Spring15>, <Spring16>, <Spring17>, <Spring18>, <Spring19>, <Spring20>, <Spring21>, <Spring22>, <Spring23>, <Spring24>,

<Summer1>, <Summer2>, <Summer3>, <Summer4>, <Summer5>, <Summer6>, <Summer7>, <Summer8>, <Summer10>, <Summer11>, <Summer12>,

<Summer13>, <Summer14>, <Summer15>, <Summer16>, <Summer17>, <Summer18>, <Summer19>, <Summer20>, <Summer21>, <Summer22>, <Summer23>, <Summer24>,

<Autumn1>, <Autumn2>, <Autumn3>, <Autumn4>, <Autumn5>, <Autumn6>, <Autumn7>, <Autumn9>, <Autumn10>, <Autumn11>, <Autumn12>,

<Autumn13>, <Autumn14>, <Autumn15>, <Autumn16>, <Autumn17>, <Autumn18>, <Autumn19>, <Autumn20>, <Autumn21>, <Autumn22>, <Autumn23>, <Autumn24> !

!END!

Since operating pattern needs to be created by pollutant, definition of "Unique ID" differs.

Pollutant	Unique ID
SO2	(<uid>-1)*7+1</uid>
SO4	(<uid>-1)*7+2</uid>
NOX	(<uid>-1)*7+3</uid>
NO3	(<uid>-1)*7+4</uid>
TSP	(<uid>-1)*7+5</uid>
PM10	(<uid>-1)*7+6</uid>
СО	(<uid>-1)*7+7</uid>

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	А	E	F	G	н	1	1	K	L	M	N	0	Р	
1	IXIY	SourceNar	ne											
2	130019	grd00001	1 SRCNAM = grd00001 !	1 ! IVARY = 3 !	1 ! SO2 = 3.68C	5.25	1.98	2.66	0.28	0.07	1.52	2.01	LIEND!	
3	130020	grd00002	8 ! SRCNAM = grd00002 !	8 ! IVARY = 3 !	8 ! SO2 = 3.680	5.25	1.98	2.66	0.28	0.07	1.52	2.01	LIEND!	
4	130021	grd00003	15 ! SRCNAM = grd00003	15 ! IVARY = 3	115 SO2 = 3.68	5.25	1.98	2.66	0.28	0.07	1.52	2.01	LIEND!	
5	130027	grd00004	22 ! SRCNAM = grd00004	22 ! IVARY = 3	122 SO2 = 3.68	5.25	1.98	2.66	0.28	0.07	1.52	2.01	LIEND!	
6	130028	grd00005	29 ! SRCNAM = grd00005	29 IVARY = 3	129 SO2 = 3.68	5.25	1.98	2.66	0.28	0.07	1.52	2.01	I IEND!	
7	140020	grd00006	36 ! SRCNAM = grd00006	136 ! IVARY = 3	136 ! SO2 = 3.68	5.25	1.98	2.66	0.28	0.07	1.52	2.01	LIEND!	
8	140021	grd00007	43 ! SRCNAM = grd00007	43 ! IVARY = 3	43 SO2 = 3.68	5.25	1.98	2.66	0.28	0.07	1.52	2.01	LIEND!	
9	140022	grd00008	50 ! SRCNAM = grd00008	150 ! IVARY = 3	150 SO2 = 3.68	5.25	1.98	2.66	0.28	0.07	1.52	2.01	L !END!	
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3		-	8 ! SRCNAM = grd00002 !			5.25	1.98	2.66	0.28	0.07	1.52		L !END!	
4		-	15 ! SRCNAM = grd00003			5.25	1.98	2.66	0.28	0.07	1.52		L IEND!	
5		-	22 ! SRCNAM = grd00004			5.25	1.98	2.66	0.28	0.07	1.52		L !END!	
5		-	29 ! SRCNAM = grd00005			5.25	1.98	2.66	0.28	0.07	1.52		L !END!	
2			36 ! SRCNAM = grd00006			5.25	1.98	2.66	0.28	0.07	1.52		L !END!	
3			43 ! SRCNAM = grd00007			5.25	1.98	2.66	0.28	0.07	1.52		L !END!	
)	140022	grd00008	50 ! SRCNAM = grd00008	! 50 ! IVARY = 3	150 ! SO2 = 3.68	5.25	1.98	2.66	0.28	0.07	1.52	2.01	L !END!	
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5.3 Line Source

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2	01	1044.02	643073	5313512	642958	5314549	643018	5314031	2.74418			35.7398	2.08586	2.08586	192.231	
3	01	2245.76	642958	5314549	643162	5316778	643117	5315661	5.90292			76.8788	4.48682	4.48682	413.501	
4	02	395.503	643073	5313512	642709	5313389	642880	5313479	0.51899			6.60141	0.40038	0.40038	34.1211	
5	02	397.572	642350	5312543	642318	5312153	642348	5312345	0.52171			6.63596	0.40247	0.40247	34.2997	
6	02	923.146	642709	5313389	642350	5312543	642526	5312968	1.21139			15.4084	0.93452	0.93452	79.6423	
7	03	1209.61	643265	5312318	643073	5313512	643175	5312917	1.22794			15.9771	0.7786	0.7786	109.006	
8	04-1	525.12	644004	5312976	643580	5313265	643816	5313150	0.76088			9.05083	0.44331	0.44331	73.6725	
9	04-1	548.117	644016	5312431	644004	5312976	644022	5312705	0.7942			9.44719	0.46273	0.46273	76.8989	
10	04-2	566.041	643580	5313265	643073	5313512	643325	5313387	0.47653			7.00064	0.33086	0.33086	35.1337	
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Input formulas to calculate the emission of SO4 and NO3.

SO4 Emission =SO2 Emission x conversion ratio from SO2 to SO4 x 96/64

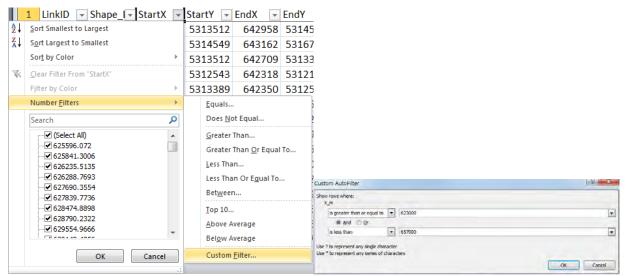
SO2 Emission = SO2 Emission x (1- conversion ratio from SO2 to SO4)

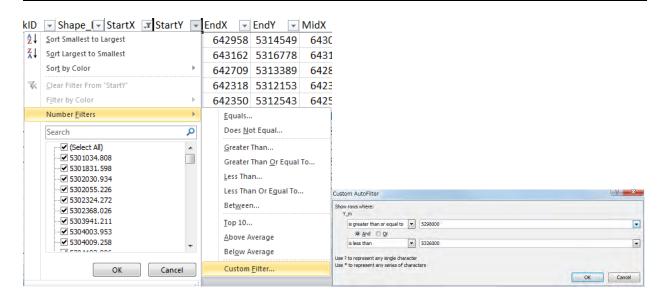
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1	LinkID	Shape_Ler		StartY	EndX	EndY	MidX	MidY		SO2_corr		NOx_tpy	PM_tpy	PM10_tpy		
	01	1044.02		5313512		5314549		5314031		2.60697	0.2101	35.7398	2.08586	2.08586	192.231	
	01	2245.76		5314549		5316778	643117		5.90292		0.45194	76.8788	4.48682	4.48682	413.501	
	02	395.503		5313512		5313389		5313479	0.51899	0.49304	0.03974	6.60141	0.40038	0.40038	34.1211	
	02	397.572		5312543		5312153		5312345	0.52171	0.49562	0.03994	6.63596	0.40247	0.40247	34.2997	
	02	923.146		5313389		5312543	642526		1.21139		0.09275	15.4084	0.93452	0.93452	79.6423	
	03	1209.61		5312318		5313512	643175		1.22794	1.16654	0.09401	15.9771	0.7786	0.7786	109.006	
8	04-1	525.12		5312976		5313265		5313150	0.76088	0.72283	0.05825	9.05083	0.44331	0.44331	73.6725	
9	04-1	548.117	644016	5312431	644004	5312976	644022	5312705	0.7942	0.75449	0.06081	.44719	0.46273	0.46273	76.8989	
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1 2	A LinkID	B Shape_Ler	<i>f</i> ∗ C StartX 643073	D StartY	E EndX 642958	EndY	MidX	MidY 5314031	l SOx_tpy	_	SO4		PM_tpy	PM10_tpy	O CO_tpy	~
1 2 3	A LinkID 01	B Shape_Ler 1044.02	<i>f</i> ∗ C StartX 643073 642958	D StartY 5313512	E EndX 642958 643162	EndY 5314549	MidX 643018 643117	MidY 5314031	l SOx_tpy 2.74418	2.60697	SO4 0.2101	35.7398	PM_tpy 2.08586	PM10_tpy 2.08586	0 CO_tpy 192.231	~
1 2 3 4	A LinkID 01 01	B Shape_Ler 1044.02 2245.76	<i>f</i> ∗ C StartX 643073 642958 643073	D StartY 5313512 5314549	E EndX 642958 643162 642709	EndY 5314549 5316778	MidX 643018 643117	MidY 5314031 5315661 5313479	l SOx_tpy 2.74418 5.90292	2.60697 5.60777	SO4 0.2101 0.45194	35.7398 76.8788	PM_tpy 2.08586 4.48682	PM10_tpy 2.08586 4.48682	0 CO_tpy 192.231 413.501	~
1 2 3 4 5	A LinkID 01 01 02	B Shape_Ler 1044.02 2245.76 395.503	<i>f</i> ∗ C StartX 643073 642958 643073	D StartY 5313512 5314549 5313512 5312543	E EndX 642958 643162 642709 642318	EndY 5314549 5316778 5313389	MidX 643018 643117 642880	MidY 5314031 5315661 5313479 5312345	l SOx_tpy 2.74418 5.90292 0.51899	2.60697 5.60777 0.49304	SO4 0.2101 0.45194 0.03974	35.7398 76.8788 6.60141	PM_tpy 2.08586 4.48682 0.40038	PM10_tpy 2.08586 4.48682 0.40038	0 CO_tpy 192.231 413.501 34.1211	~
1 2 3 4 5 6	A LinkID 01 01 02 02	B Shape_Ler 1044.02 2245.76 395.503 397.572	fx C StartX 643073 642958 643073 642350 642709	D StartY 5313512 5314549 5313512 5312543	E EndX 642958 643162 642709 642318 642350	EndY 5314549 5316778 5313389 5312153	MidX 643018 643117 642880 642348	MidY 5314031 5315661 5313479 5312345 5312968	l SOx_tpy 2.74418 5.90292 0.51899 0.52171	2.60697 5.60777 0.49304 0.49562	SO4 0.2101 0.45194 0.03974 0.03994	35.7398 76.8788 6.60141 6.63596	PM_tpy 2.08586 4.48682 0.40038 0.40247	PM10_tpy 2.08586 4.48682 0.40038 0.40247	O CO_tpy 192.231 413.501 34.1211 34.2997	~
1 2 3 4 5 6	A LinkID 01 02 02 02 02	B Shape_Ler 1044.02 2245.76 395.503 397.572 923.146	fx C StartX 643073 642958 643073 642350 642709 643265	D StartY 5313512 5314549 5313512 5312543 5312389	E EndX 642958 643162 642709 642318 642350 643073	EndY 5314549 5316778 5313389 5312153 5312543	MidX 643018 643117 642880 642348 642526 643175	MidY 5314031 5315661 5313479 5312345 5312968	l SOx_tpy 2.74418 5.90292 0.51899 0.52171 1.21139	2.60697 5.60777 0.49304 0.49562 1.15082	SO4 0.2101 0.45194 0.03974 0.03994 0.09275	35.7398 76.8788 6.60141 6.63596 15.4084	PM_tpy 2.08586 4.48682 0.40038 0.40247 0.93452	PM10_tpy 2.08586 4.48682 0.40038 0.40247 0.93452	0 CO_tpy 192.231 413.501 34.1211 34.2997 79.6423	~
1 2 3 4 5 6 7 8	A LinkID 01 01 02 02 02 03	B Shape_Ler 1044.02 2245.76 395.503 397.572 923.146 1209.61	fx C StartX 643073 642958 643073 642350 642709 643265 644004	D StartY 5313512 5314549 5313512 5312543 5312348 5312318	E EndX 642958 643162 642709 642318 642350 643073 643580	EndY 5314549 5316778 5313389 5312153 5312543 5312543	MidX 643018 643117 642880 642348 642526 643175 643816	MidY 5314031 5315661 5313479 5312345 5312968 5312917	l SOx_tpy 2.74418 5.90292 0.51899 0.52171 1.21139 1.22794 0.76088	2.60697 5.60777 0.49304 0.49562 1.15082 1.16654 0.72283	SO4 0.2101 0.45194 0.03974 0.03994 0.09275 0.09401 0.05825	35.7398 76.8788 6.60141 6.63596 15.4084 15.9771 9.05083	PM_tpy 2.08586 4.48682 0.40038 0.40247 0.93452 0.7786	PM10_tpy 2.08586 4.48682 0.40038 0.40247 0.93452 0.7786 0.44331	0 CO_tpy 192.231 413.501 34.1211 34.2997 79.6423 109.006	~
1 2 3 4 5 6 7 8 9	A LinkID 01 02 02 02 03 04-1 04-1	B Shape_Ler 1044.02 2245.76 395.503 397.572 923.146 1209.61 525.12	Jk C StartX 643073 642958 643073 642350 642709 643265 644004 644016	D StartY 5313512 5314549 5313512 5312543 5312543 5312318 5312976 5312431	E EndX 642958 643162 642709 642318 642350 643073 643580 6430580 644004	EndY 5314549 5316778 5313389 5312153 5312543 5313512 5313265	MidX 643018 643117 642880 642348 642526 643175 643816	MidY 5314031 5315661 5313479 5312345 5312968 5312917 5313150	l SOx_tpy 2.74418 5.90292 0.51899 0.52171 1.21139 1.22794 0.76088	2.60697 5.60777 0.49304 0.49562 1.15082 1.16654	SO4 0.2101 0.45194 0.03974 0.03994 0.09275 0.09401 0.05825	35.7398 76.8788 6.60141 6.63596 15.4084 15.9771 9.05083	PM_tpy 2.08586 4.48682 0.40038 0.40247 0.93452 0.7786 0.44331	PM10_tpy 2.08586 4.48682 0.40038 0.40247 0.93452 0.7786 0.44331	0 CO_tpy 192.231 413.501 34.1211 34.2997 79.6423 109.006 73.6725	~

Click [Filter] in "Data" tab and add filter function to the first row.

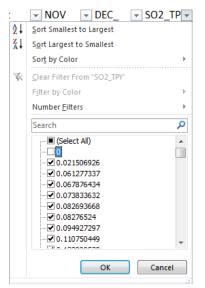


Select " $\mathbf{\nabla}$ " at [StartX], [StartY], [EndX], [EndY], [MidX], and [MidY] and filter in calculation range in east-west and south-north directions.





Select " $\mathbf{\nabla}$ " at [SO2_TPY] and filter to line source that SO2 emission is not zero.



Only rows extracted by the above filter function are displayed

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2	01	1044.02	643073	5313512	642958	5314549	643018	5314031	2.74418	2.60697	0.2101	35.7398	2.08586	2.08586	192.231	
3	01	2245.76	642958	5314549	643162	5316778	643117	5315661	5.90292	5.60777	0.45194	76.8788	4.48682	4.48682	413.501	
4	02	395.503	643073	5313512	642709	5313389	642880	5313479	0.51899	0.49304	0.03974	6.60141	0.40038	0.40038	34.1211	
5	02	397.572	642350	5312543	642318	5312153	642348	5312345	0.52171	0.49562	0.03994	6.63596	0.40247	0.40247	34.2997	
6	02	923.146	642709	5313389	642350	5312543	642526	5312968	1.21139	1.15082	0.09275	15.4084	0.93452	0.93452	79.6423	
7	03	1209.61	643265	5312318	643073	5313512	643175	5312917	1.22794	1.16654	0.09401	15.9771	0.7786	0.7786	109.006	
8	04-1	525.12	644004	5312976	643580	5313265	643816	5313150	0.76088	0.72283	0.05825	9.05083	0.44331	0.44331	73.6725	
9	04-1	548.117	644016	5312431	644004	5312976	644022	5312705	0.7942	0.75449	0.06081	9.44719	0.46273	0.46273	76.8989	
10	04-2	566.041	643580	5313265	643073	5313512	643325	5313387	0.47653	0.4527	0.03648	7.00064	0.33086	0.33086	35.1337	
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Copy the line sources generated by filter function and paste them on another sheet, and set the name of each sheet to "15b" and "15c".

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2	01	1044.02	643073	5313512	642958	5314549	643018	5314031	2.74418	2.60697	0.2101	35.7398	2.08586	2.08586	192.231	
3	01	2245.76	642958	5314549	643162	5316778	643117	5315661	5.90292	5.60777	0.45194	76.8788	4.48682	4.48682	413.501	
4	02	395.503	643073	5313512	642709	5313389	642880	5313479	0.51899	0.49304	0.03974	6.60141	0.40038	0.40038	34.1211	
5	02	397.572	642350	5312543	642318	5312153	642348	5312345	0.52171	0.49562	0.03994	6.63596	0.40247	0.40247	34.2997	
6	02	923.146	642709	5313389	642350	5312543	642526	5312968	1.21139	1.15082	0.09275	15.4084	0.93452	0.93452	79.6423	
7	03	1209.61	643265	5312318	643073	5313512	643175	5312917	1.22794	1.16654	0.09401	15.9771	0.7786	0.7786	109.006	
8	04-1	525.12	644004	5312976	643580	5313265	643816	5313150	0.76088	0.72283	0.05825	9.05083	0.44331	0.44331	73.6725	
9	04-1	548.117	644016	5312431	644004	5312976	644022	5312705	0.7942	0.75449	0.06081	9.44719	0.46273	0.46273	76.8989	
10	04-2	566.041	643580	5313265	643073	5313512	643325	5313387	0.47653	0.4527	0.03648	7.00064	0.33086	0.33086	35.1337	
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Using the "15b" sheet, create the string information on line sources (15b) among CALPUFF input data. Insert a column before [ID] column and add serial number (UID).

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1	UID	LinkID	Shape_Ler	StartX	StartY	EndX	EndY	MidX	MidY	SOx_tpy	SO2_corr	SO4	NOx_tpy	PM_tpy	PM10_tp	CO_tpy	
2	1	01	1044.02	643073	5313512	642958	5314549	643018	5314031	2.74418	2.60697	0.2101	35.7398	2.08586	2.08586	192.231	
3	2	01	2245.76	642958	5314549	643162	5316778	643117	5315661	5.90292	5.60777	0.45194	76.8788	4.48682	4.48682	413.501	
4	3	02	395.503	643073	5313512	642709	5313389	642880	5313479	0.51899	0.49304	0.03974	6.60141	0.40038	0.40038	34.1211	
5	4	02	397.572	642350	5312543	642318	5312153	642348	5312345	0.52171	0.49562	0.03994	6.63596	0.40247	0.40247	34.2997	1
6	5	02	923.146	642709	5313389	642350	5312543	642526	5312968	1.21139	1.15082	0.09275	15.4084	0.93452	0.93452	79.6423	1
7	6	03	1209.61	643265	5312318	643073	5313512	643175	5312917	1.22794	1.16654	0.09401	15.9771	0.7786	0.7786	109.006	i
8	7	04-1	525.12	644004	5312976	643580	5313265	643816	5313150	0.76088	0.72283	0.05825	9.05083	0.44331	0.44331	73.6725	i i
9	8	04-1	548.117	644016	5312431	644004	5312976	644022	5312705	0.7942	0.75449	0.06081	9.44719	0.46273	0.46273	76.8989	
10	9	04-2	566.041	643580	5313265	643073	5313512	643325	5313387	0.47653	0.4527	0.03648	7.00064	0.33086	0.33086	35.1337	١.,
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Three columns are added to the sheet on which the data is copied, and value of elevation data for each grid according to the starting point coordinates is extracted. Calculate the grid positions specified by the coordinates in the first two columns, and enter an equation to calculate the value of elevation data by grid referenced from "sheet1-1" according to these values in the last one column.

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	1 01	1044.02	643073	5313512	642958	5314549	643018	5314031	643	5313	1320.5	2.74418	2.60697	0.2101	
	2 01	2245.76	642958	5314549	643162	5316778	643117	5315661	642	5314	1349	5.90292	5.60777	0.45194	76.8788
	3 02	395.503	643073	5313512	642709	5313389	642880	5313479	643	5313	1320.5	0.51899	0.49304	0.03974	6.6014
	4 02	397.572	642350	5312543	642318	5312153	642348	5312345	642	5312	1314	0.52171	0.49562	0.03994	6.63596
T	5 02	923.146	642709	5313389	642350	5312543	642526	5312968	642	5313	1332	1.21139	1.15082	0.09275	15.4084
T	6 03	1209.61	643265	5312318	643073	5313512	643175	5312917	643	5312	1313	1.22794	1.16654	0.09401	15.977
	7 04-1	525.12		5312976		5313265		5313150	644	5312	1379	0.76088			
	8 04-1	548.117	644016	5312431	644004	5312976	644022	5312705	644	5312	1379	0.7942			
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ľ	1 01	1044.02		5313512		5314549		5314031	643	5313	1320.5		-	0.2101	
	2 01	2245.76		5313512		5314549		5314031	643	5313	1320.5	5.90292	5.60777	0.45194	76.878
ł	3 02	395.503		5313512		5313389		5313661	643	5314	1320.5		0.49304	0.43194	6.6014
ł	3 02														
ł	4 02 5 02	397.572		5312543		5312153		5312345	642	5312	1314		0.49562		
	5 02 6 03	923.146		5313389		5312543		5312968	642	5313	1332		1.15082		
ł		1209.61		5312318		5313512		5312917	643	5312	1313				
ŀ	7 04-1	525.12	644004			5313265		5313150	644	5312	1379				9.0508
	8 04-1	548.117	644016			5312976	644022	5312705	644	5312	1379	0.7942	0.75449	0.06081	9.4471
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	1 01	1044.02	643073	5313512	642958	5314549	643018	5314031	643	5313	1320.5	2.74418	2.60697	0.2101	35.739
	2 01	2245.76	642958	5314549	643162	5316778	643117	5315661	642	5314	1349	5.90292	5.60777	0.45194	76.878
	3 02	395.503	643073	5313512	642709	5313389	642880	5313479	643	5313	1320.5	0.51899	0.49304	0.03974	6.6014
	4 02	397.572	642350	5312543	642318	5312153	642348	5312345	642	5312	1314	0.52171	0.49562	0.03994	6.6359
	5 02	923.146	642709	5313389	642350	5312543	642526	5312968	642	5313	1332	1.21139	1.15082	0.09275	15.408
I	6 03	1209.61	643265	5312318	643073	5313512	643175	5312917	643	5312	1313	1.22794	1.16654	0.09401	15.977
	7 04-1	525.12	644004	5312976	643580	5313265	643816	5313150	644	5312	1379	0.76088	0.72283	0.05825	9.0508
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3	2	01	2245.76	5316778	643117	5315661	642	5314	1349	643	5316	1348.5	643	5315	1337	5.90292	
4	3	02	395.503	5313389	642880	5313479	643	5313	1320.5	642	5313	1332	642	5313	1332	0.51899	
5	4	02	397.572	5312153	642348	5312345	642	5312	1314	642	5312	1314	642	5312	1314	0.52171	
6	5	02	923.146	5312543	642526	5312968	642	5313	1332	642	5312	1314	642	5312	1314	1.21139	
7	6	03	1209.61	5313512	643175	5312917	643	5312	1313	643	5313	1320.5	643	5312	1313	1.22794	
8	7	04-1	525.12	5313265	643816	5313150	644	5312	1379	643	5313	1320.5	643	5313	1320.5	0.76088	
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3	2 01	2245.76	413.501	2! SRCNAM = 2-Ln01 !	2! X = 642	.9576074,	5314.5491	.643,643.1	618106,53	16.777704	9,0.5,1337	,1.77821E	-01,1.433	10E-02,2.4
4	3 02	395.503		3! SRCNAM = 3-Ln02 !										
5	4 02	397.572	34.2997	4! SRCNAM = 4-Ln02 !	4! X = 642	.3498118,	5312.5429	384,642.3	175325,53	12.153035	4,0.5,1314	I,1.57162E	-02,1.2666	50E-03,2.1
6	5 02	923.146		5! SRCNAM = 5-Ln02 !					,					
7	6 03	1209.61		6! SRCNAM = 6-Ln03 !										
8	7 04-1	525.12		7! SRCNAM = 7-Ln04-1										
9	8 04-1	548.117		8! SRCNAM = 8-Ln04-1		62185,	5312.4306		8064,5312	.9759348,	0.5,1379,2	.39247E-02	2,1.92815	E-03,2.995
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Copy the created strings and paste them the relevant part of CALPUFF input file.

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[LinkID] and road distance is the only necessary column, so delete other lines.

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Create strings by pollutant setting operating pattern.

=CONCATENATE(<Unique ID>,"! SRCNAM = ",<UID>,"-Ln",<LinkID>," !")

=CONCATENATE(<Unique ID>,"! IVARY = 3 !")

=CONCATENATE(<Unique ID>," ! <Pollutant> = <Winter1>, <Winter2>, <Winter3>, <Winter4>, <Winter5>, <Winter6>, <Winter7>, <Winter8>, <Winter9>, <Winter10>, <Winter11>, <Winter12>,")

<Winter13>, <Winter14>, <Winter15>, <Winter16>, <Winter17>, <Winter18>, <Winter19>,<Winter20>, <Winter21>, <Winter22>, <Winter23>, <Winter24>,

<Spring1>, <Spring2>, <Spring3>, <Spring4>, <Spring5>, <Spring6>, <Spring7>, <Spring8>, <Spring9>, <Spring10>, <Spring11>, <Spring12>,

<Spring13>, <Spring14>, <Spring15>, <Spring16>, <Spring17>, <Spring18>, <Spring19>, <Spring20>, <Spring21>, <Spring22>, <Spring23>, <Spring24>,

<Summer1>, <Summer2>, <Summer3>, <Summer4>, <Summer5>, <Summer6>, <Summer7>, <Summer8>, <Summer10>, <Summer11>, <Summer12>,

<Summer13>, <Summer14>, <Summer15>, <Summer16>, <Summer17>, <Summer18>, <Summer19>, <Summer20>, <Summer21>, <Summer22>, <Summer23>, <Summer24>,

<Autumn1>, <Autumn2>, <Autumn3>, <Autumn4>, <Autumn5>, <Autumn6>, <Autumn7>, <Autumn9>, <Autumn10>, <Autumn11>, <Autumn12>,

<Autumn13>, <Autumn14>, <Autumn15>, <Autumn16>, <Autumn17>, <Autumn18>, <Autumn19>, <Autumn20>, <Autumn21>, <Autumn22>, <Autumn23>, <Autumn24> !

!END!

Since operating pattern needs to be created by pollutant, definition of "Unique ID" differs.

Pollutant	Unique ID
SO2	(<uid>-1)*6+1</uid>
SO4	(<uid>-1)*6+2</uid>
NOX	(<uid>-1)*6+3</uid>
TSP	(<uid>-1)*6+4</uid>
PM10	(<uid>-1)*6+5</uid>
СО	(<uid>-1)*6+6</uid>

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2	1 01 2 01		1! SRCNAM = 1-Ln01 !		1! SO2 = 0.327	1.55	0.36	1.57	0.37	1.56	0.35	1.55 IE	
3	3 02		7! SRCNAM = 2-Ln01 !		7! SO2 = 0.327	1.55	0.36	1.57	0.37	1.56	0.35	1.55 !E	
4 5	3 02		13! SRCNAM = 3-Ln02 !			1.55	0.36	1.57	0.37	1.56	0.35	1.55 !E	
	5 02		19! SRCNAM = 4-Ln02 !			1.55		1.57		1.56		1.55 !E	
5	6 03		25! SRCNAM = 5-Ln02 !			1.55	0.36	1.57	0.37	1.56	0.35	1.55 IE	
			31! SRCNAM = 6-Ln03 !		31! 502 = 0.32	1.55	0.36	1.57	0.37	1.56	0.35	1.55 !E	
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3	2 01	2245.76	7! SRCNAM = 2-Ln01 !	7! IVARY = 3 !	7! SO2 = 0.327	1.55	0.36	1.57	0.37	1.56	0.35	1.55 !E	ND!
1	3 02	395.503	13! SRCNAM = 3-Ln02 !	13! IVARY = 3 !	13! SO2 = 0.32	1.55	0.36	1.57	0.37	1.56	0.35	1.55 IE	ND
j.	4 02	397.572	19! SRCNAM = 4-Ln02 !	19! IVARY = 3 !	19! SO2 = 0.32	1.55	0.36	1.57	0.37	1.56	0.35	1.55 !E	ND!
6	5 02	923.146	25! SRCNAM = 5-Ln02 !	25! IVARY = 3 !	25! SO2 = 0.32	1.55	0.36	1.57	0.37	1.56	0.35	1.55 !E	ND!
7	6 03		31! SRCNAM = 6-Ln03 !		31! SO2 = 0.32	1.55	0.36	1.57	0.37	1.56	0.35	1.55 !E	
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5	4 02		19! SRCNAM = 4-Ln02 !			1.55	0.36	1.57	0.37	1.56	0.35	1.55 !E	ND!
5	5 02		25! SRCNAM = 5-Ln02 !			1.55	0.36	1.57	0.37	1.56	0.35	1.55 IE	ND!
7	6 03		31! SRCNAM = 6-Ln03 !			1.55	0.36	1.57	0.37	1.56	0.35	1.55 IE	
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A E C	& -CONCATENAT	Dete Teniero ((SA2-1)*6+1, * 8G	BH	Developer 1,542,1-cm1,8 B	BI	BK	BL.	EK.	BN		89 BQ	208 208 208 209 209 209 209	6 0, 5, 10, 15, 20, 25, 30, 35, 40, + 45, 50, 50+)+ 9 1 SRCHAN = 1-Ln01 1 1VARY = 3 1 S02 = 0, 32756, 0, 20654, 0, 16825, 0, 1 0, 0, 20654, 0, 16825, 0, 12320, 0, 08789, 0, 08963, 0, 11138, 0, 63864, 1, 32617, 1, 35104, 1, 5 1, 1, 32617, 1, 35104, 1, 53781, 1, 54250, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0 15, 1, 53631, 1, 54479, 1, 40476, 1, 50714, 1, 64327, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0 5, 1, 53634, 1, 54479, 1, 44976, 1, 50714, 1, 64327, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0 5, 1, 53634, 1, 54479, 1, 44476, 1, 50714, 1, 64327, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0 5, 1, 5, 1, 5, 1, 5, 1, 5, 4, 5, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
A E C	6 «CONCATENAT BE BF 1.55 (ENO)	Bde Teises ((SA2-1)*6+1, * 8G 1140/ SBC	BH	B 1140/CO	BI 1.55	BK	BL 1.57	EM.	BN 1.55	0.85	50 50 1.55 1000 1	208 208 208 209 209 209 209 209 209	6 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+) 8 1 9 11 SRCNAM = 1-Ln01 1 11 VARY = 3 1 11 S02 = 0.32756, 0.20654, 0.16825, 0.1 0, 0.20654, 0.16825, 0.12320, 0.08789, 0.08963, 0.11138, 0.63864, 1.32617, 1.35104, 1.53781, 1.54250, 1.535385, 1.53636, 1.3479, 1.4378, 1.5479, 1. 1, 32617, 1.35104, 1.53781, 1.54250, 1.53586, 1.54379, 1. 2, 5, 1.53634, 1.54479, 1.49476, 1.50714, 1.64327, 1.55806, 1.41949, 1.4438, 0.92077, 0. 3, 9, 1.1438, 0.92077, 0.2569, 0.46344, 0.8333, 0.
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A E C UID UnitED Shape_tr 19054-1 668-000 219159-2 575-01 1907-97 562-275-01	6 -CONCATENATI 82 BF 1.55 IENO 1.55 IENO 1.55 IENO	Dda farieu 1852-1946-1,7 865 1140/ 586 1146/ 586 1156/ 586	BH E1401 WA E1401 WA E1401 WA	Benitum (542,5-un),6 8 11400 CO 11460 CO 11521 CO	BZ 1.55 1.55 1.55	BK 0.36 0.36	BL 1.57 1.57 1.57	0.37	1.50 1.56	0.85 0.35 0.35	2 Q - 2 20 80 1.55 10401 1.55 10401 1.55 10401	208 208 208 209 209 209 209 209 209 209 209	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Imm Imm Imm Imm B2 + - - - J E C - - - UID Limit Shape_ire - <td>6 -CONCATENAT</td> <td>044 Emira ((542-1)*6+1.*7 865 11401 SRC 11461 SRC 11501 SRC 11581 SRC</td> <td>BH EL401 IVA EL401 IVA EL521 IVA EL581 IVA</td> <td>B: 11401 CO 11401 CO 11401 CO 11501 CO 11521 CO 11581 CO</td> <td>BZ 1.55 1.55 1.55 1.55 1.55</td> <td>BX 0.36 0.36 0.36 0.36</td> <td>BL 1.57 1.57 1.57 1.57 1.57</td> <td>0.37 0.37 0.37</td> <td>1.50 1.56 1.56</td> <td>0.15 0.35 0.35 0.35</td> <td>19 = = 89 80 1.55 8002 1.55 8002 1.55 8001 1.55 8001</td> <td>208 208 209 209 209 209 209 209 209 209 209 209</td> <td>6 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+) 1 8 1 9 11 SRCNAW = 1-Ln01 1 11 IVARY = 3 1 11 S02 = 0, 32756, 0, 20654, 0, 16825, 0, 1 0, 20654, 0, 16825, 0, 12320, 0, 08769, 0, 08963, 0, 11138, 0, 63964, 1, 32617, 1, 35104, 1, 5 1, 1, 32617, 1, 35104, 1, 5378) 1, 54250, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0, 22969, 0, 46344, 0, 38253, 0, 24154, 0, 18133, 0, 43074, 1, 50714, 1, 64327, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0, 22969, 0, 46344, 1, 34174, 0, 7503, 1, 42988, 1, 4477, 1, 15714, 1, 64327, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0, 12997, 0, 10381, 0, 10073, 0, 14174, 0, 7503, 1, 42988, 1, 4477, 1, 5718, 1, 4478, 0, 0, 18033, 0, 12997, 0, 10381, 0, 10073, 0, 14174, 0, 7503, 1, 42988, 1, 44777, 1, 5703, 1, 42988, 1, 44777, 1, 5714, 1, 320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 10, 10273, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 10, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 10, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 10, 10286, 0, 102657, 0, 16825, 0, 1138, 0, 63844, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1320, 0, 32756, 0, 20654, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1320, 0, 32756, 0, 20654, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 32756,</td>	6 -CONCATENAT	044 Emira ((542-1)*6+1.*7 865 11401 SRC 11461 SRC 11501 SRC 11581 SRC	BH EL401 IVA EL401 IVA EL521 IVA EL581 IVA	B: 11401 CO 11401 CO 11401 CO 11501 CO 11521 CO 11581 CO	BZ 1.55 1.55 1.55 1.55 1.55	BX 0.36 0.36 0.36 0.36	BL 1.57 1.57 1.57 1.57 1.57	0.37 0.37 0.37	1.50 1.56 1.56	0.15 0.35 0.35 0.35	19 = = 89 80 1.55 8002 1.55 8002 1.55 8001 1.55 8001	208 208 209 209 209 209 209 209 209 209 209 209	6 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+) 1 8 1 9 11 SRCNAW = 1-Ln01 1 11 IVARY = 3 1 11 S02 = 0, 32756, 0, 20654, 0, 16825, 0, 1 0, 20654, 0, 16825, 0, 12320, 0, 08769, 0, 08963, 0, 11138, 0, 63964, 1, 32617, 1, 35104, 1, 5 1, 1, 32617, 1, 35104, 1, 5378) 1, 54250, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0, 22969, 0, 46344, 0, 38253, 0, 24154, 0, 18133, 0, 43074, 1, 50714, 1, 64327, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0, 22969, 0, 46344, 1, 34174, 0, 7503, 1, 42988, 1, 4477, 1, 15714, 1, 64327, 1, 55806, 1, 41949, 1, 14438, 0, 92077, 0, 12997, 0, 10381, 0, 10073, 0, 14174, 0, 7503, 1, 42988, 1, 4477, 1, 5718, 1, 4478, 0, 0, 18033, 0, 12997, 0, 10381, 0, 10073, 0, 14174, 0, 7503, 1, 42988, 1, 44777, 1, 5703, 1, 42988, 1, 44777, 1, 5714, 1, 320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 10, 10273, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 10, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 10, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 10, 10286, 0, 102657, 0, 16825, 0, 1138, 0, 63844, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1138, 0, 63644, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1320, 0, 32756, 0, 20654, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 1320, 0, 32756, 0, 20654, 1, 32617, 1, 35104, 1, 5718, 1320, 0, 32756,
Total Base Base Base D2 + - - D2 + - - A B C - 1 UID ImitID Shape (r 2 100 (96-1 666.00 202 2 100 (96-2 575.51 - 30 197 (97 562.728 - 91 194 (93 2545.99) 2545.99 - -	6 -CONCATENAT	Dda farieu 1852-1946-1,7 865 1140/ 586 1146/ 586 1156/ 586	BH BH 11401 VM 11401 VM 11521 VM 11581 VM 11641 VM	8 11401 C0 11461 C0 11521 C0 11521 C0 11581 C0 11581 C0	BZ 1.55 1.55 1.55	BK 0.36 0.36	BL 1.57 1.57 1.57	0.37	1.50 1.56	0.85 0.35 0.35	20 30 1.55 (000) 1.55 (000) 1.55 (000) 1.55 (000) 1.55 (000)	208 208 209 209 209 209 209 209 209 209 209 209	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Inter Inter Inter Inter 102 + - - - 102 + - - - - - 1 100 Unititititititititititititititititititit	6 -CONCATENAT	044 6mm ((542-1)*641.* 86 1140/ 580 1154/ 580 1152/ 580 1158/ 580 1164/ 580	BH BH L1401 IVA L1401 IVA L1401 IVA L1521 IVA L1521 IVA L1521 IVA L1541 IVA L1541 IVA L1541 IVA	8 11401 C0 11461 C0 11521 C0 11521 C0 11581 C0 11581 C0	87 1.55 1.55 1.55 1.55 1.55 1.55	EX 0.36 0.36 0.36 0.36 0.36	BL 1.57 1.57 1.57 1.57 1.57	0.37 0.37 0.37	1.50 1.56 1.56 1.55	0.35 0.35 0.35 0.35 0.35 0.35	19 = = 89 80 1.55 8002 1.55 8002 1.55 8001 1.55 8001	208 208 209 209 209 209 209 209 209 209 209 209	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

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	IN C. KCALPUFF_USEPA_ApprovedKCALPUFFKCPUF_MajorR_CHI2_2015.INP(更更)+ 素丸	
	ファイル(F) 編集(E) 表示(V) 検索(S) ウィンドウ(W) マクロ(M) そのむ(O)	2064:11
	·····································	
	CPUE_per_CHQ_2015 INP * CPUE_MajorR_CH2_2015.INP *	13
	2082 and the speed classe 2083 bounds (m/s) defined 2084 5 = Temperature 2085 classes have upper b 2086 0, 5, 10, 15, 20, 25 2087 45, 50, 50+)	where temperature ounds (C) of:
■ 置換	2089 1! SRCNAM = 1-Ln01 !! 2090 1! IVARY = 3 !!	
検索(S): ¥t ・ ・ 上検索(E) Sbift+	2091 1! S02 = 0. 32756, 0. 20654, 0. 16825, 0. 12320, 0. 08789, 0. 08963 1. 55385, 1. 53634, 1. 54479, 1. 49476, 1. 50714, 1. 6432	
置換(E). ¥n - 下検索(N) F3	2093 0. 36253, 0. 24154, 0. 18133, 0. 12997, 0. 10381, 0. 1007	
一 大文字/小文字の区別(C) 全置換(A)	2094 1. 57228, 1. 54745, 1. 56326, 1. 54089, 1. 54505, 1. 9004	
	2095 0. 37660, 0. 25700, 0. 18607, 0. 13202, 0. 11090, 0. 1053	
単語の検索()) キャンセル	2096 1. 56410, 1. 53575, 1. 55521, 1. 54745, 1. 54730, 2. 0125	
☑ 正規表現(R) HMJRE.DLL V3.46 ヘルプ	2097 0. 35889, 0. 23924, 0. 17946, 0. 12860, 0. 10283, 0. 0997	3. 0. 14050, 0. 74293, 1. 4
あいまい検索(F) 設定(V).	2098 1. 55502, 1. 53038, 1. 54610, 1. 52428, 1. 52830, 1. 8821	
□検索文字列を強調		and offerningenerating a
図 選択した範囲内のみ(L) ■ 置換の前に確認(0 2100 2! SRCNAM = 1-Ln01 !	
□ 次の秀丸エディ9も続けて置換(目)	2101 2! IVARY = 3 !	
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	2103 1. 55385, 1. 53634, 1. 54479, 1. 49476, 1. 50714, 1. 6432	7, 1. 55806, 1. 41949, 1. 1.
道加の条件(Z)		行重号表 巨木造(Shift-JIS) 挿入モード

6 <u>Conducting Dispersion Simulation and Organizing the Calculation</u> <u>Result</u>

6.1 Conducting Dispersion Simulation

6.1.1 <u>Outline</u>

Conduct the dispersion simulation of CALPUFF using the emission data created in 3.2 and the meteorological model created with CALMET.

Set input file, output file, calculation term, calculated target substance, projection, datum, calculation range, and calculation resolution in CALPUFF. These settings have to be the same setting as those by the other processor. In this manual, set the parameter to consider the chemical reaction model in CALPUFF INP file.In addition, INP file can be set to narrow down the analysis target range inside the calculation range, and subdivide the grid in the analysis target range. For source data, paste the content of file converting data to the relevant part of CALPUFF INP file and correct the parameters such as the number of sources.

Dispersion simulation for each source is conducted in order to confirm the contribution by source.

6.1.2 Conducting Method

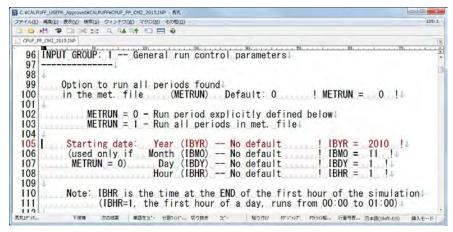
Open INP file in "CALPUFF" folder.

整理 ▼ 📄 開く ▼ 新し	Jいフォルダー				8EE 👻	EU
かお気に入り	名前	更新日時	種類	サイズ	属性	
	we calpun_2014.0ac	2010/03/10 10,24	winuows / \>7	1 ND	n	
📕 ダウンロード	Calpuff_131116.exe	2013/11/16 8:53	アプリケーション	67,516 KB	A.	
📃 デスクトップ	Calpuff_150319.exe	2015/03/19 15:34	アプリケーション	234,392 KB	A	
3 最近表示した場所 ■	Calpuff_20150320.exe	2015/03/20 18:15	アプリケーション	205,545 KB	A	
	Calpuff_20151215.exe	2015/12/15 17:30	アプリケーション	205,482 KB	A	
こ ライブラリ	Calpuff_sigzmin5.exe	2016/01/12 13:28	アプリケーション	205,482 KB	A	
	cmet_ub2.dat	2015/04/10 10:58	DAT ファイル	1,626,576 KB	A	
ドキュメント	CPUF_ger_CM2_2015.INP	2016/06/07 13:44	INP ファイル	2,739 KB	A	
📔 ピクチャ	CPUF_MajorR_CM2_2015.INP	2016/06/09 16:26	INP ファイル	1,155 KB	A	
ビデオ	CPUF_MINORRFDUP_CM2_2015.CON	2016/06/27 15:29	CON JF JL	22,773 KB	A	
→ ミュージック	CPUF_MinorRFDUP_CM2_2015.INP	2016/06/27 11:01	INP ファイル	700 KB	A	
	CPUF_MINORRFDUP_CM2_2015.LST	2016/06/27 15:29	MASM Listing	6,432 KB	A	
▲ コンピューター	CPUF_PP_CM2_2015.INP	2016/06/20 10:26	INP ファイル	80 KB	A	
Windows7_OS (C:)	DEBUG.DAT	2016/06/24 18:15	DAT ファイル	5 KB	A	
- Willdows/_03 (C.)	EORE7D3 tmn	2016/04/22 2:35	TMD 77/1.	434 375 KR	HA	

Set data file of meteorological model (METDAT), output file name (PUFLST, CONDAT).

ICALPUFF_USEPA_ApprovedVCALPUFFVCPUF_PP_CM2_2015.INP - 長丸	
u(F) 編集(E) 表示(V) 検索(S) ウィンドウ(W) マクロ(M) その灼(O)	12/
UF_FP_CM2_2015.1NP	
11 INPUT GROUP: 0 Input and Output File Names	
12	
13↓	
I4 Default Name Type File Name↓	
I6 CALMET.DAT input ! METDAT =/CALMET/cmet_ub2.dat !↓ 17 or↓	
7 or↓ 8 ISCMET. DAT input * ISCDAT =UB_MET201003_201102_2. DAT*↓	
19 or	
20 PLMMET.DAT input * PLMDAT =*↓	
21 or 4	
22 PROFILE DAT input * PRFDAT = *	
23 SURFACE.DAT input * SFCDAT = *4	
24 RESTARTB. DAT input * RSTARTB= *4	
25	
26 CALPUFF.LST output PUFLST =CPUF_PP_CM2_2015.LST !	
27 CONC.DAT output ! CONDAT =CPUF_PP_CM2_2015.CON !↓ 28 DFLX.DAT output * DFDAT =CPUF.DRY *↓	
28 DFLX.DAT output * DFDAT =CPUF.DRY *+ 29 WFLX.DAT output * WFDAT =CPUF.WET *+	
31 VISB. DAT output * VISDAT =CPUF. VIS *	
32 TK2D. DAT output * T2DDAT = *	
33 RHO2D.DAT output * RHODAT = *	
34 RESTARTE DAT output * RSTARTE= *1	
35	
·(5 下候補 次の結果 単語を北- 分割20ド・ 切り抜き 3t*- 話り付け 勢がかわず 20150編 石量号表	表… 日本語(Shift-ITS) 挿入モード

Set target calculation term (METRUN). When setting "0", you have to set the calculation starting date and time (IBYR, IBMO, IBDY, and IBHR). When setting "1", the term included in meteorological model is target calculation term.



In addition, set time zone (XBTZ), the length of run (IRLG), the number of chemical species (NSPEC), and chemical species to be emitted (NSE).

Z-CIL(E)	編集(E) 表示(V) 検索(S) ウィンドウ(W) マクロ(M) その相(D)	115:3
101		
CPUF_P	P_CM2_2015.NP	
111	(IBHR=1, the first hour of a day, runs from 00:00 to 01:00)	
112	4	
113	Base time zone (XBTZ) No default ! XBTZ = -8.0 !↓	
114	The zone is the number of hours that must be↓	
115	ADDED to the time to obtain UTC (or GMT)	
117	CST = 6. EST = 5.	
118		
119	Length of run (hours) (IRLG) No default ! IRLG = 2880 !	
120		
121	Number of chemical species (NSPEC)	
122	Default: 5 ! NSPEC = 8 !	
123		
124	Munkey of sheater instances	
	Number of chemical species	
125	to be emitted (NSE) Default: 3 ! NSE = 7 !↓	
126	4	

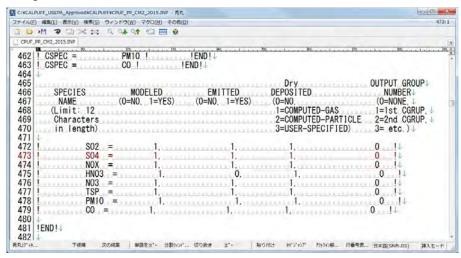
Set chemical mechanism flag (MCHEM). Set "1" to consider pseudo-first-order chemical reaction model using "MESOPUFF II" scheme in this manual.

C:WCALPUFF_USEPA_ApprovedWCAL	PUFFNCPUF_PP_CM2_2015.INP - 务丸			(icolica in
マイル(E) 編集(E) 表示(Y) 検索(S	() ウィンドウ(W) マクロ(M) その相(Q)			235
1 D M ? C X X				
CPUF_PP_CM2_2015.INP				
231		and the second Please	Lance Marriela	and Phaneta
232 Chemic 233 0 234 235 235 1 237 2 238 239 239 3 241 4	al mechanism flag (MCHEM) chemical transformation not modeled transformation rates computed internally (MESOPUFF II scheme user-specified transformation rates used transformation rates computed internally (RIVAD/ARM3 scheme) secondary organic aerosol form computed (MESOPUFF II scheme f	a)↓ nation↓	! MCHEM =	: <u></u> 14
243 4				

Set the information on pollutant. Set the substances name for the number of calculated substances set by NSPEC.

C:VCALPUFF	-USEPA_ApprovedVCALPUFFV0	CPUF_PP_CM2_2015.INP - 秀丸			
77-11(E) N	4篇(E) 表示(Y) 検索(S) ウィ	ンドウ(W) マクロ(M) その他(Q)			458:1
1 0 1	1 7 Ch >< 52 4	94 97 53 55 92			
CPUF_PP_C	CM2_2015.INP				126
447 I 448 -	NPUT GROUP: 3	a, 3b Species	s_list↓	. <u> 19 19</u>	· · · · · · · · · · · · · · · · · · ·
449 J 450 -	j				
451 S 452 -	Subgroup (3a)				
453 4 454 455 4	The followin	g species are m	odeled:		
456 !	CSPEC = CSPEC =	S02 S04			
458	CSPEC =	NOX !	!END! +		
459 ! 460 !	CSPEC = CSPEC =	HN03 ! N03 !	IEND I I		
461 !	CSPEC =	TSP !	!END!↓		
462 ! 463 ! 464	CSPEC = CSPEC =	PM10 ! CO !	!END!↓		
404 小 AGE 秀和計"得…	下候補 次のH	·····································	切り数度 北"	ロビン は デジャンプ 2013日和二 石乗号表… 日本	MITC- 語(Shift-JIS) 挿入モード

For each contaminant, set whether these substances are target of calculation output or not (MODELED) and whether they are target of emission or not (EMITTED).



Set the projection of output data (PMAP etc.). These setting have to be the same as CALMET etc.

C:YCALPUFF_USEPA_ApprovedVCALPUFFVCPUF_PP_CM2_2015.INP - 列丸	00
マイル(E) 編集(E) 表示(X) 検索(S) ウィンドウ(X) マクロ(M) その他(O)	515:
ION SUXE (AN A CE S	
CPUF_PP_CM2_2015.tNP	16
504 INPUT GROUP: 4 Map Projection and Grid control parameters↓ 505 506 ↓ 507	
508	
509 L	
510 Map projection↓ 511 (PMAP) Default: UTM ! PMAP = UTM !↓	
512	*
512 UTM : Universal Transverse Mercator	
514 TTM : Tangential Transverse Mercator	
515 LCC : Lambert Conformal Conic	
516 PS : Polar Stereographic4	
517 EM : Equatorial Mercatori	
518 LAZA : Lambert Azimuthal Equal Area	
519 4	
520 False Easting and Northing (km) at the projection origin	
521 (Used only if PMAP= TTM, LCC, or LAZA)	
522 (FEAST) Default=0.0 ! FEAST = 0.000) 14
523 (FNORTH) Default=0.0 ! FNORTH = 0.000) ! .
524 4	
525 UTM zone (1 to 60)↓	
526 (Used only if PMAP=UTM)↓	
527 (IUTMZN) No Default ! IUTMZN = 48	14
528 🗸	
529 Hemisphere_for_UTM_projection?↓	
530 Used_only_if_PMAP=UTM)↓	
531 (UTMHEM) Default: N ! UTMHEM = N !	e
532 Northern hemisphere projection	
533S : Southern hemisphere projection↓	
11.17.14	日本語(Shift-JIS) 挿入モード

Set the datum of output data (DATUM). These setting have to be the same as CALMET etc.

	USEPA_ApprovedVCALPUFFVCPUF_PP_CM2_2015.INP - 书充	lestEr 8
	集(E) 表示(Y) 検索(S) ウィンドウ(W) マクロ(M) その物(Q)	587:1
	? □ × □ × □ < 0 ← 0 ⊟	
CPUF_PP_CM		
568 569 570 571 572 573 574 575 576 577	Datum-region The Datum-Region for the coordinates is identified by a c string. Many mapping products currently available use th Earth known as the World Geodetic System 1984 (WGS-84). models may be in use, and their selection in CALMET will consistent with local mapping products. The list of Datu official transformation parameters is provided by the Nat Mapping Agency (NIMA). ↓	e model of the Other local make its output m-Regions with
578 ↓ 579 580 581 582	NIMA Datum - Regions(Examples) WGS-84 WGS-84 Reference Ellipsoid and Geoid, Global co NAS-C NORTH AMERICAN 1927 Clarke 1866 Spheroid, MEAN	FOR CONUS (NAD2)
583 584 585 586 586	NAR-C NORTH AMERICAN 1983 GRS 80 Spheroid, MEAN FOR C NWS-84 NWS 6370KM Radius, Sphere↓ ESR-S ESRI REFERENCE 6371KM Radius, Sphere↓	UNUS (NAD83) 4
588 589 ±	Datum-region for output coordinates (DATUM) Default: WGS-84. ! DATUM = W	GS-84!↓

Set the number of grid of meteorological model data (NX, NY, and NZ), horizontal grid spacing (DGRIDKM), the number of vertical grid and the height to divide the grid (ZFACE), and the bottom-left coordinate of grid. These setting have to be the same as CALMET etc.

器 C:WCALPUFF_USEPA_ApprovedWCALPUFFWCPUF_PP_CM2_2015.1NP · 表先	
ファイル(E) 編集(E) 表示(V) 検察(S) ウインドウ(W) マクロ(M) その他(Q)	610:1
CPUF_PP_CM2_2015.INP	1
591 METEOROLOGICAL Grid	
592	
593 Rectangular grid defined for projection PM	AP. L
594 with X the Easting and Y the Northing coord	dinate
595	anator
596 No. X grid cells (NX) No defau	lt ! NX = 34 !↓
597 No. Y grid cells (NY) No defau	
598 No. vertical layers (NZ) No defau	1 + 1 N7 = 10 1
599 4	
600 Grid spacing (DGRIDKM) No defau	1t I DGRIDKM = 1.0
601 Units: kr	
602 4	
603 Cell face heights	
604 (ZFACE(nz+1)) No defau	lts
605 Units: m	
606 ! ZFACE = . 0, 20. 0, 40. 0, 80. 0, 160. 0, 300. 0,	
607 4000.0 !	
608 4	
609 Reference Coordinates	
610 of SOUTHWEST corner of	
611 grid cell(1, 1):4	
612 ↓	
613 X coordinate (XORIGKM) No defau	It ! XORIGKM = 623.0 ! .
614 Y coordinate (YORIGKM) No defau	It ! YORIGKM = 5298.0 !
615 Units: km	1
616	
青丸エディタ 下候補 次の結果 単語をス*- 分割70.F* 切り抜き ス*- 私り付け	ヤアン・ロン ア1136/編 行番号表 日本語(Shift-IIS) 挿入モード

Set the range of calculation grid (IBCOMP, JBCOMP, IECOMP, and JECOMP). Set the range specified above with grid number.

-104(F)	編集(E) 表示(V) 検索(S) ウィンドウ(W) マクロ(M) その色(O)	628:
	P. CM2. 2015.INP	
	Da	
617		
	COMPUTATIONAL_Grid: 4	
619		
520	The computational grid is identical to or a subset of the MET. grid.	
521	The lower left (LL) corner of the computational grid is at grid point	
	(IBCOMP, JBCOMP) of the MET. grid. The upper right (UR) corner of the	
523	computational grid is at grid point (IECOMP, JECOMP) of the MET. grid.	
524	The grid spacing of the computational grid is the same as the MET. grid.	4
625	4	
626	X index of LL corner (IBCOMP) No default ! IBCOMP = 1 !4	
527	(1 <= IBCOMP <= NX) ↓	
628		
629	Y index of LL corner (JBCOMP) No default ! JBCOMP = 1 !	
630	(1 <= JBCOMP <= NY)↓	
631		
532	+	
633	X index of UR corner (IECOMP) No default ! IECOMP = 34 !	
534	$(1 \leq \text{IECOMP} \leq \text{NX}) \perp$	
535		
536	Y index of UR corner (JECOMP) No default ! JECOMP = 28 !4	
638	1	

When outputting calculation results as grid data, set "LSAMP" to "T" and set the range of output grid (IBSAMP, JBSAMP, IESAMP, and JESAMP). Set the grid number within the range specified above. Set the nesting factor of the sampling grid for specifying the grid interval within the set range (MESHDN).

Example: When "DGRIDKM" is set to 5km and you want to set the grid interval for outputting the calculation result to 1km, "MESHDN" where "DGRIDKM"/"MESHDN" becomes 1, that is, may be set to 5.

	autoparticipation and a transmission of the second s	
	編集(E) 表示(Y) 補集(E) ウィンドウ(W) マクロ(M) その物(Q)	652:
	H P G X 11 9 9 31 G E 9	
	PP_CM2_2015.1NP	
641 642 643 644	SAMPLING Grid (GRIDDED RECEPTORS):4 The lower left (LL) corner of the sampling grid is at grid point4	
645 646	sampling grid is at grid point (IESAMP, JESAMP) of the MET, grid. The sampling grid must be identical to or a subset of the computational grid. It may be a nested grid inside the computational grid. The grid spacing of the sampling grid is DGRIDKM/MESHDN.4	
650 651 652 653	Logical flag indicating if gridded: receptors are used (LSAMP) Default: T ! LSAMP = T !+ (T=yes, F=no) +	
655 656		
657 658 659 660		
661 662 663		
664 665 666 667		4
568 569 570 571 572	!END!	

Set the substance to be output to the LIST file among the calculated pollutants.

	ウィンドウ(W) マクロ(M) その他(Q	12				760;
0 M 9 1 × 53						
CPUF PP CM2 2015.INP						
		80 1	80	170 1 989	1 100 1 000	100
749 1	a second a constant of the second second	California Colores	ALL PROPERTY AND	Martin and Martin		and a stand and a stand
	acking progress of run-					
751 written to	the screen ?+					
	De	fault: 2	1 1MESG = 2	±4.		
753 0 = nol						
	advection step. puff_ID					
255 2 = yes (YYYYJJJHH, # ald puffs,	# emitted puffs	:)1			
56 1						
57 1						
758 SPECIES (or G	ROUP for combined speci	es) LIST FOR OUT	PUT UPITUNS:			
759 1	DESIGNATE LE LOUIS	PRV PI	ILLER .		10000	AR PLUM
60 SPECIES4	CONCENTRATIONS	DRY FI	UXES	HEI FL	UXES MA	ASS FLUX
		DOINTEDO CH	ED ON DICKO	DDINTEDS CAN	ED ON DICKO CAVE	and a town
(00,000) DI						
62 /GROUP P	RINTED? SAVED ON DISK?	PRINTED: SM	En nu nieus	A NEWTED ON	LD ON DIGNE ONTER	J UN DISKYL
763						
763 764 ! \$02 =	1, 1,	0,	0,	0,	0, 0	
63 64 ! \$02 = 65 ! \$04 =	l; l;	0. 0.	0: 0:	0. 0.	0, 0	
763 764 ! SOZ = 765 ! SO4 = 766 ! NOX =]. 0. 0.	0, 0. 0.	0. 0. 0.	0. 0. 0.	0, 0 0, 0 0, 0	
763 764 : SOZ = 765 : SO4 = 766 : NOX = 767 : HNO3 =		0, 0, 0, 0, 0,	0. 0. 0. 0.	0. 0. 0. 0.	0, 0 0, 0 0, 0 0, 0	
763 764 1 SOZ = 765 1 SO4 = 766 1 NOX = 767 1 HNO3 = 768 1 NO3 =		0, 0, 0, 0, 0, 0,	0. 0. 0. 0. 0.	0. 0. 0. 0. 0.	0, 0 0, 0 0, 0 0, 0 0, 0	
763 765 SO2 = 765 SO4 = 766 NOX = 767 HNO3 = 768 NO3 = 769 TSP = 770 PHI0 =		0, 0, 0, 0, 0, 0, 0, 0,	0. 0. 0. 0. 0. 0. 0.	0, 0, 0, 0, 0, 0, 0,	0, 0 0, 0 0, 0 0, 0 0, 0 0, 0 0, 0 0, 0	
763 765 SO2 = 765 SO4 = 766 NOX = 767 HNO3 = 768 NO3 = 769 TSP = 770 PM10 =		0, 0, 0, 0, 0, 0, 0, 0,	0. 0. 0. 0. 0. 0. 0.	0, 0, 0, 0, 0, 0, 0,	0, 0 0, 0 0, 0 0, 0 0, 0 0, 0 0, 0 0, 0	
763 765 765 765 766 767 767 767 767	1. 1. 0. 1. 0. 1. 0. 1. 0. 1. 0. 1.	0, 0, 0, 0, 0, 0, 0, 0,	0. 0. 0. 0. 0. 0. 0.	0, 0, 0, 0, 0, 0, 0,	0, 0 0, 0 0, 0 0, 0 0, 0 0, 0 0, 0 0, 0	
763 765 S04 = 766 N0X = 766 N0X = 767 HN03 = 768 N03 = 769 TSP = 770 PM10 = 771 CO =		0, 0, 0, 0, 0, 0, 0, 0, 0,	0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	0. 0. 0. 0. 0. 0. 0. 0.	0, 0 0, 0 0, 0 0, 0 0, 0 0, 0 0, 0 0, 0	

Setting the emission data of point source

Set the number of sources (NPT1), the unit of emission (IPTU⁹), and the number of emission patterns (NSPT1) at "13a". "NSPT1" is the value by multiplying "NPT1" by "NSE" (number of pollutants).

7-12/F)	編集(E) 表示(V) 単素(E) ウィンドウ(W) マクロ(M) その他(O)	1344:27
1 10		
CPUF P	P. CM2. 2015.INP	6
	0	
	INPUT GROUPS: 13a, 13b, 13c, 13d Point source parameters	
330		
331	de	
332		
333	Subgroup (13a)	
334		
335		
336		
337	parameters provided below (NPT1) No default ! NPT1 = 5 !	
338		
339	Units used for point source↓	
340	emissions below (IPTU) Default: 1 ! IPTU = 1 !	
341	1 =g/s↓	
342	2 =kg/hr↓	
343	$3 = 1b/hr \downarrow$	
344	$4 = \frac{\text{tons/yr}}{1}$	
345	5 = Odour Unit * m**3/s (vol. flux of odour compound)↓	
346	6 = Odour Unit * m**3/min↓	
347	7 = metric tons/yr+	
348	1	
349	Number of source-species	
350	combinations with variable	
351		
352	provided below in (13d) (NSPT1) Default: 0 ! NSPT1 = 35 !	
353	h and the second s	

Set source name (SRCNAM), X coordinate, Y coordinate, stack height, elevation, stack diameter, flow gas velocity, flow gas temperature and emission (X) for each source at "13b". Adjust the horizontal and vertical dispersion width (SIGYZI) as necessary.

⁹ Note that "tons/yr" (4) is ton in the American Survey Act and "metric tons/yr" (7) is ton in the metric method, so these are strictly different each other. In the case of Mongolia "7" seems appropriate to be used.

		VCALPUFFVCPUF_PP_CM2	_2015.INP - 务元							
		調(5) ウィンドウ(业) マ	a contract of a construct							1397:0
		22 9.94.94								
CPUF_	PP_CM2_2015.INP									-
364				and a second	have been	Mir and a start	. K9 1			10
365	Subgroup (13b) L								
866										
67	La Travinia	Level Distant	LAND BOATS	a1						
68	CONTRACTOR OF STREET, S	POINT SOURCE	CONSTANT	DATAL						
69	Little and Little			l						
70	unanéodoan	a ra dar noda	da ancida a	0000000-0		. And the second		0.000	b	a da da
71	Source	Х	Y	Stack	Base	Stack	Exit	Exit	Bldg.	Emissi
72	No.									Rates
73	0.00111100	(km)	(km)	(m)	(m)	(m)	(m/s)	(deg. K)		4
77										
	1! ZPLTFM 1! FMFAC = !END! 2! SRCNAM 2! X = 639 2! SIGYZ1 2! ZPLTFM 2! FMFAC = !END! 4	1.0 ! 4 = stac0002 ! .5350124,530 = 1000,20 ! 4 = 0 ! 4	8. 6319475.	100, 1281,	4. 6. 24. 9,	413. 15. 0.	7. 1468	7E+01, 5.	75981E+	00. 7. 07

Set source name (SRCNAM), emission pattern type (IVARY) and emission pattern by substance for each source at "13d". For "IVARY", you can set "1" (for each time), "2" (for each month), "3" (for each season and time), etc. If not set "IVARY", emission pattern is regarded as constant.

	PUFF_USERA_App																100	
) 陶葉(血) 表示(23												1519:
	M 2 1		14 144 1	A CI	H 4													
CPUF	PP_CM2_2015.1N	-		19		10	100					- 10	_	19			100	-
496	1! SRCN	AM = s	ac000	111		an en en en										the set	. 100	-
	11 IVAR																	
498	11 \$02 :	= 1.68	2.0.9	512 0	4681	0.9955	0.816	8.1.	0204	0	5718.	0.86	65. (8934	1.1.	1495	1 22	10.1
499																		
500	2! SRCN	AM = s	ac000	1.11														
	21 IVAR																	
502	21 504	= 1.68	12.0.9	512.0.	4681.	0.9955	0.816	8.1.	0204	.0.	5718.	0.86	65. (0.8934	1.1.	1495.	1.22	10.1
	IEND!																	
504	3! SRCN	AM = s	ac000	11.														
	3! IVAR																	
506	3! NOX :	= 1.68	12. 0. 9	512.0.	4681.	0.9955	0.816	8.1.	0204	.0.	5718.	0.86	65. 0). 8934	1. 1.	1495.	1.22	10,1
507	!END!+																	
508	4! SRCN	AM = s	ac000	1.14														
509	4! IVAR	Y = 2	1															
510	4! NO3 :	= 1.68	12.0.9	512, 0.	4681,	0.9955	0.816	8, 1.	0204	.0.	5718.	0.86	65.0	0.8934	1, 1.	1495.	1.22	10, 1
	!END!																	
	5! SRCN			14														
	5! IVAR																	
	5! TSP :	= 1.68	12.0.9	512.0.	4681.	0.9955	0.816	8.1.	0204	. 0.	5718.	0.86	65.0	0.8934	1. 1.	1495.	1.22	10.1
	!END!																	
	6! SRCN			1.1.1.														
	6! IVAR				1.50	Q 3.54	2.572	1.1		8.2	1.00		4.15				15.6	
	6! PM10	= 1.6	372.0.1	9512, 0	. 4681	. 0. 995	5.0.81	68, 1	. 020	4,0	5718	3, 0, 8	3665.	0.893	14, 1	1495	5.1.2	210,
	!END!4		1.715	12.1														
	7! SRCN			1.15														
	7! IVAR											110						2.4
522	7! CO =	1. 687	2. 0. 95	12.0.4	681.0	. 9955.	0.8168	. 1. 0	204.	0.5	718.0	0.860	5, 0,	8934.	1.1	495, 1	. 221	0.1.
	!END!																	
	8! SRCN			2 14														
	8! IVAR																	
	8! SO2 :	= 1.86	88, 1. 4	24, 1,	3506,	1_0520	0.865	9,0.	1016	, 0.	0000.	0.00	000, 0). 6337	. 1.	3500.	1.53	10.1
	IEND!																	
578	91 SRCN	AM = <'	次の結果	#1823		e 008	* 2'-		ROAR		97"5"+57"	20154	40.	行番号表	10.41	唐(Shift-J19		NE-K

Setting the emission data of area source

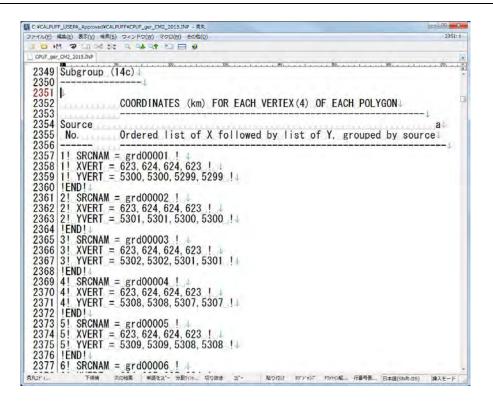
Set the number of sources (NAR1), the unit of emission (IARU), and the number of emission patterns (NSAR1) at "14a". "NSAR1" is the value by multiplying "NAR1" by "NSE" (number of pollutants).

	USERA_ApprovederCALPUTFACPUT_ge_CH2_2015.DP - #R.
	編集(E) 表示(V) 検索(S) ウィンドウ(W) マクロ(M) その地(Q) 1496.3
	1 2 Cl X 22 Q Q4 Q1 Cl 🗄 🖗
CPUP_ger.	CK2_2015.1NP 10
1478	INPUT GROUPS: 14a, 14b, 14c, 14d Area source parameters
1479	
1480	4
1481	
	Subgroup (14a)
1483	
484	
400	Number of polygon area sources with parameters specified below (NAR1) No default ! NAR1 = 407 !
487	parameters spectfied below (MART) No default ! MART = 407 !
	Units used for area source
	emissions below (IARU) Default: 1 ! IARU = 1 !
490	1 = g/m**2/s
491	2 = kg/m**2/hr
492	3 = 1b/m**2/hr
493	$4 = \frac{\tan 2}{yr}$
494	5 = Odour Unit * m/s (vol. flux/m**2 of odour compound)↓
495	6 = Odour Unit * m/min
496	7 = metric tons/m**2/yr
497	
498	Number of source-species
	combinations with variable
	emissions scaling factors
1501	provided below in (14d) (NSAR1) Default: 0 ! NSAR1 = 2849 !
15071	- 下標準 次の結束 単語をま*- 分割りのビー。切り抜き ま*- 起り付け 571×127 2511の編… 行動用表… 日本国(Sh在JIS) 挿入モード

Set source name (SRCNAM), effective emission height, elevation, vertical dispersion width, and emission (X) for each source at "14b".

C:VCALPU	F_USEPA_ApprovedVCALPUFFVCPUF_ger_CH2_2015.INP - 表現
77-111(E)	繊維(E) 表示(X) 検索(S) ウインドウ(X) マクロ(M) その相(Q) 1529:39
CPUF_ge	_CM2_2015.1NP
1511	E
1512	Cuberna (14b)
1513	Subgroup (14b)
1514	
1515	AREA SOURCE: CONSTANT DATA
1516	
1517	0↓
	Source Effect. Base Initial Emission
1519	No. Height Elevation Sigma z Rates
1520	(m) (m) (m)
1521	
1522	1 ! SRCNAM = grd00001 !+
1523	1 ! X = 5, 1234, 50, 1. 02801E-09, 8. 28494E-11, 2. 67347E-10, 1. 00270E-12, 0, 1. 92827E-09,
1524	
1525	
1526	
1527	3 ! X = 5, 1234, 50, 2.01260E-08, 1.62199E-09, 5.23401E-09, 1.96305E-11, 0, 3.77510E-08, 1.96305E-11, 0, 3.77510E-1005E-11, 0, 3.77510E-1005E-11, 0, 3.77510E-11, 0, 3
1528	
1529	$4 \mid X = 5, 1292, 50, 5, 86127E-09, 4, 72372E-10, 1, 47448E-09, 6, 56192E-12, 0, 1, 26191E-08,$
1530	5 ! SRCNAM = grd00005 !
1531	$5 \mid X = 5, 1332, 50, 1, 41031E-08, 1, 13660E-09, 3, 54784E-09, 1, 57890E-11, 0, 3, 03634E-08, 1, 13660E-09, 1, 1$
1532	
1533	
1534	
1535	7 + X = 5,1245,50,1,24358F-07,1,00223F-08,3,23410F-08,1,21297F-10,0,2,33264F-07
费丸17*(9	下候補 次の時間 単語をエ* 分割のパ・… 切り扱き エ* 「知り付け がいわび アルトの施… 行番号表… 日本語(Shift-JIS) ■入モード」

Set source name (SRCNAM), X coordinate (XVERT) and Y coordinate (YVERT) of four points for each source at "14c". Set in order of upper left, upper right, bottom right, and bottom left, respectively.



Set source name (SRCNAM), emission pattern type (IVARY) and emission pattern by substance for each source at "14d". For "IVARY", you can set "1" (for each time), "2" (for each month), "3" (for each season and time), etc. If not set "IVARY", emission pattern is regarded as constant.

	F_USEPA_ApprovedVCALPUFFVCPUF_ger_CM2_2015.DVP · 贵方。	
1.1446	▲集(E) 表示(V) 検索(S) ウインドウ(M) マクロ(M) その他(Q)	4044
-		
CPUF_9	_CM2_2015.INP	
019	0, 5, 10, 15, 20, 25, 30, 35, 40, 1	LATER AND BE
020	45, 50, 50+)	
021	45, 50, 50+7+	
022	! SRCNAM = grd00001 !+	
023	1 [VARY = 3]	
	1502 = 3.68000.4.21000.3.32000.3.12000.1.98000.1.17000.1.08000.0.61000.0.79000.	1 50000 2 4
025	5, 25000, 3, 35000, 2, 92000, 1, 76000, 0, 77000, 0, 44000, 0, 24000, 0, 40000, 1, 01000	
026	1, 98000, 2, 12000, 1, 59000, 1, 41000, 0, 79000, 0, 44000, 0, 24000, 0, 40000, 1, 01000,	
027	2. 66000, 1. 70000, 1. 48000, 0. 88000, 0. 38000, 0. 23000, 0. 15000, 0. 27000, 0. 55000,	
028	0. 28000, 0. 02000, 0. 0000	
029	0. 07000, 0. 05000, 0. 03000, 0. 01000, 0. 00000, 0. 03000, 0. 06000, 0. 14000, 0. 10000,	
030	1, 52000, 1, 15000, 0, 94000, 0, 77000, 0, 92000, 1, 03000, 0, 57000, 0, 38000, 0, 14000, 0, 10000,	
031	2, 01000, 1, 07000, 0, 56000, 0, 23000, 0, 03000, 0, 00000, 0, 00000, 0, 00000, 0, 00000, 0,	
	ENDI	0. 15000. 0. 3
	2 SRCNAM = grd00001 1	
	2 SKUNAM = grduuuu !!	
	2 + 174RT = 3 + 2 2 + S04 = 3, 68000, 4, 21000, 3, 32000, 3, 12000, 1, 98000, 1, 17000, 1, 08000, 0, 61000, 0, 79000,	1 50000 0
036	5. 25000, 3. 35000, 2. 92000, 1. 76000, 0. 77000, 0. 44000, 0. 24000, 0. 40000, 1. 01000 1. 98000, 2. 12000, 1. 59000, 1. 41000, 0. 79000, 0. 48000, 0. 41000, 0. 10000, 0. 11000,	
038	2, 66000, 1, 70000, 1, 48000, 0, 88000, 0, 38000, 0, 23000, 0, 17000, 0, 17000, 0, 55000,	
039	0. 28000, 0. 02000, 0. 0000	
040	0. 07000, 0. 05000, 0. 03000, 0. 01000, 0. 00000, 0. 03000, 0. 06000, 0. 14000, 0. 10000,	
041	1. 52000, 1. 15000, 0. 94000, 0. 77000, 0. 92000, 1. 03000, 0. 57000, 0. 38000, 0. 31000,	
042	2. 01000, 1. 07000, 0. 56000, 0. 23000, 0. 03000, 0. 000	0. 15000, 0. 5
	I SRCNAM = grd00001 !4	
	I IVARY = 3 1	
045		1 50000 0 0
040	5, 25000, 3, 35000, 2, 92000, 1, 76000, 0, 77000, 0, 44000, 0, 24000, 0, 40000, 1, 01000	
048		
048	1. 98000, 2. 12000, 1. 59000, 1. 41000, 0. 79000, 0. 48000, 0. 41000, 0. 10000, 0. 11000,	
	2. 66000, 1. 70000, 1. 48000, 0. 88000, 0. 38000, 0. 23000, 0. 15000, 0. 27000, 0. 55000,	
050	0.28000, 0.02000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.000000, 0.00000000	
051	0. 07000, 0. 05000, 0. 03000, 0. 01000, 0. 00000, 0. 03000, 0. 06000, 0. 14000, 0. 10000,	
052	1. 52000, 1. 15000, 0. 94000, 0. 77000, 0. 92000, 1. 03000, 0. 57000, 0. 38000, 0. 31000,	
17* 19	下線編 次の陰氣 単語を北*・分割767 切り抜き 北*・ 貼り付け 97.9703* 7056種 行番号表 日本語(Shi	ft-J15) 挿入モート

Setting the emission data of line source

Set the number of sources (NLINES), the unit of emission (ILNU), and the number of emission patterns (NSLN1) at "15a". "NSLN1" is the value by multiplying "NLINES" by "NSE" (number of pollutants).

CALPUFF_USEPA_Approved¥CALPUFF¥CF ル(E) 編集(E) 表示(Y) 機業(S) ウィン		1613:1
		1013:1
UF_MajorR_CM2_2015.INP	196 · · · · 1 · · · · 196 · · · · 1 · · · · · H44 · · · · 1 ·	No
88		
	15b. 15c Line source para	ameters
90		
91 4		
92		
93 Subgroup (15a) 4		
94		
95 4		
	ovant line sources↓	
	location and emission	
		No default ! NLN2 = 0 !!
99		Hene , , , , , , , , , , , , , , , , , ,
	ALL parameter data for	
	s are read from the file: LNB	EMARB DAT)
02	and them the tree the	
	want line sources (NLINES)	No default ! NLINES = 195 !
04	2	and the second
	or line source4	
		Default: 1 ! ILNU = 1 !
	g/s4	
	kg/hr	
	lb/hr↓	
	tons/vr4	
	Odour Unit * m**3/s (vol. 1	flux of odour compound)↓
	Odour Unit * m**3/min	
13 7 =	metric tons/vr	
14 4	and the second se	
	irce-species	
	with variable.	
	ling factors	
	w in (15c) (NSLN1) Det	fault: 0 ! NSLN1 = 1170 !
19 4		The second s
	ar of segments used to model↓	
1 下候補 次の結果	単語を北- 分割りのた 切り抜き コヒ*- 粘	り付け 97'9'+27" わけの幅 行業号表 日本語(Shift-JIS) 挿入モード

Set average building length (XL), average building height (HBL), average building width (WBL), average line source width (WML), average separation between buildings (DXL), and average buoyancy parameter (FPRIMEL).

Maximum number of segments used to model! Backford Default: 7 ! MXNSEG = 1 Maximum number of segments used to model! Default: 7 ! MXNSEG = 1 Backford Default: 7 ! MXNSEG = 1 1 Backford Default: 6 ! NLRISE = 6 !+ Backford Default: 6 ! NLRISE = 6 !+ Backford Default: 1 XL = 147.0 !+ Backford No default ! XL = 147.0 !+ Backford No default ! MBL = 1.0 !+ Backford No default ! MBL = 1.0 !+ Bac	(14(E)	編集(E) 表示(Y) 検索(G) ウィンドウ(W) マクロ(M) その他(Q)	1637:
119 Imaximum number of segments used to model! 220 maximum number of segments used to model! 221 each line (MXNSEG) Default: 7 ! MXNSEG = 1 !! 222 Image: the following variables are required only if NLINES > 0. They are: used in the buoyant line source plume rise calculations.! 223 Image: the following variables are required only if NLINES > 0. They are: used in the buoyant line source plume rise calculations.! 224 Image: the following variables are required only if NLINES > 0. They are: used in the buoyant line source plume rise calculations.! 225 Image: the following variables are required only if NLINES > 0. They are: used in the buoyant! 225 Image: the following variables are required only if NLINES > 0. They are: used in the buoyant! 226 Number of distances at which transitional rise is computed! Image: transitional rise is computed! 229 Average building length (XL) No default ! XL = 1447.0 !! 230 Image: transitional rise is computed! Image: transitional rise is computed! 231 Average building height (HBL) No default ! HBL = 1.0 !! 232 Average building width (WBL) No default ! WBL = 20.0 !! 233 Image: transitional rise is computed! Image: transitional rise is c	0	H 2 C 3 C 12 C 4 C 10 C 20 C	
619 1 Maximum number of segments used to model↓ 620 Default: 7 ! MXNSEG = 621 each line (MXNSEG) Default: 7 ! MXNSEG = 622 Inte following variables are required only if NLINES > 0. They are↓ 623 The following variables are required only if NLINES > 0. They are↓ 624 used in the buoyant line source plume rise calculations.↓ 625 Number of distances at which Default: 6 ! NLRISE = 6 626 Number of distances at which Default: 6 ! NLRISE = 6 !+ 627 transitional rise is computed↓ I No default ! XL = 1447.0 !+ 628 Average building height (HBL) No default ! HBL = 1.0 !+ 633 I+ Average building width (WBL) No default ! WBL = 20.0 !+ 633 I+ Average line source width (WML) No default ! WML = 18.0 !+ 634 Average separation between buildings (DXL) No default ! DXL = 1 !+ 644 Average buoyancy parameter (FPRIM	PUF_N		
Maximum number of segments used to model! each line (MXNSEG) Default: 7 ! MXNSEG = , 1 !+ Particle The following variables are required only if NLINES > 0. They are+ used in the buoyant line source plume rise calculations.+ Wumber of distances at which Default: 6 ! NLRISE = 6 !+ Number of distances at which Default: 6 ! NLRISE = 6 !+ Average building length (XL) No default ! XL = 1447.0 !+ Average building height (HBL) No default ! HBL = 1.0 !+ Average building width (WBL) No default ! WBL = 20.0 !+ Average line source width (WML) No default ! WBL = 20.0 !+ Average line source width (WML) No default ! WBL = 18.0 !+ Average line source width (WML) No default ! DXL = .1 !+ Average separation between buildings (DXL) No default ! DXL = .1 !+ Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !+	610	1	1.1.1
621 each line (MXNSEG) Default: 7 ! MXNSEG = 1 ! I 622 The following variables are required only if NLINES > 0 They are 1 624 used in the buoyant line source plume rise calculations. 1 625 Number of distances at which Default: 6 ! NLRISE = 6 ! 4 626 Number of distances at which Default: 6 ! NLRISE = 6 ! 4 627 transitional rise is computed. 0 (in meters) 4 1 628 Average building length (XL) No default ! XL = 1447.0 ! 4 (in meters) 4 631 Average building height (HBL) No default ! HBL = 1.0 ! 4 (in meters) 4 631 Average building width (WBL) No default ! WBL = 20.0 ! 4 (in meters) 4 633 Average line source width (WML) No default ! WML = 18.0 ! 4 (in meters) 4 634 Average separation between buildings (DXL) No default ! DXL = .1 ! 4 641 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 ! 4			
1 The following variables are required only if NLINES > 0. They are in used in the buoyant line source plume rise calculations. If the buoyant line source with the buoyant line source the buildings (DXL) No default ! DXL = .1 ! I the back of the buoyant line source (FPRIMEL) 04 Average buoyanty parameter (FPRIMEL) No default ! FPRIMEL = 500.0 ! I for the buoyant line source line			
624 used in the buoyant line source plume rise calculations.↓ 625 ↓ 626 Number of distances at which Default: 6 ! NLRISE = 6 !↓ 627 transitional rise is computed↓ Default: 6 ! NLRISE = 6 !↓ 628 ↓ Average building length (XL) No default ! XL = 1447.0 !↓ 630 (in meters)↓ 631 ↓ 631 ↓ No default ! HBL = 1.0 !↓ 631 ↓ No default ! HBL = 1.0 !↓ 632 Average building width (WBL) No default ! WBL = 20.0 !↓ 633 ↓ ↓ 634 ↓ No default ! WBL = 20.0 !↓ 635 Average building width (WBL) No default ! WBL = 20.0 !↓ 636 (in meters)↓ ↓ 637 ↓ Average line source width (WML) No default ! WML = 18.0 !↓ 638 Average separation between buildings (DXL) No default ! DXL = .1 !↓ 641 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓			
625Number of distances at which transitional rise is computed!Default: 6 ! NLRISE = 6 !+626transitional rise is computed!No default ! XL = 1447.0 !+627Average building length (XL)No default ! XL = 1447.0 !+628Average building height (HBL)No default ! HBL = 1.0 !+631Average building width (WBL)No default ! HBL = 1.0 !+633Average building width (WBL)No default ! WBL = 20.0 !+634Average line source width (WML)No default ! WBL = 18.0 !+639Average line source width (WML)No default ! DXL = 1.1 !+640Average separation between buildings (DXL)No default ! PFRIMEL = 500.0 !+644Average buoyancy parameter (FPRIMEL)No default ! FPRIMEL = 500.0 !+	023	ine tollowing variables are required only it NLINES > 0. They are	
626Number of distances at whichDefault: 6! NLRISE = 6!+627transitional rise is computed!No default ! XL = 1447.0 !+629Average building length (XL)No default ! XL = 1447.0 !+630(in meters) +631Average building height (HBL)No default ! HBL = 1.0 !+633(in meters) +634Average building width (WBL)No default ! WBL = 20.0 !+635Average line source width (WML)No default ! WBL = 20.0 !+636(in meters) +637Average line source width (WML)No default ! WML = 18.0 !+640(in meters) +641Average separation between buildings (DXL)No default ! DXL = .1 !+643(in meters) +644Average buoyancy parameter (FPRIMEL)644No default ! FPRIMEL = 500.0 !+			
628 ↓ Average building length (XL) No default . ! XL = 1447.0 !↓ 630 (in meters)↓ 631 ↓ (in meters)↓ 631 ↓ No default . ! XL = 1447.0 !↓ 631 ↓ (in meters)↓ 632 Average building height (HBL) No default . ! HBL = 1.0 !↓ 633 ↓ ↓ 634 ↓ No default . ! WBL = 20.0 !↓ 634 ↓ No default . ! WBL = 20.0 !↓ 635 Average building width (WBL) No default . ! WBL = 18.0 !↓ 636 ↓ ↓ 637 ↓ Average line source width (WML) 638 ▲verage line source width (WML) No default .! WML = 18.0 !↓ 639 ↓ ↓ 640 ↓ ↓ 641 Average separation between buildings (DXL) No default .! DXL = . 1 .!↓ 642 ↓ ↓ 643 ↓ ↓ 644 ▲verage buoyancy parameter (FPRIMEL) No default .! FPRIMEL = 500.0 !↓			
629 Average building length (XL) No default ! XL = 1447.0 !↓ 630 (in meters)↓ 631 Average building height (HBL) No default ! HBL = 1.0 !↓ 633 (in meters)↓ 634 (in meters)↓ 635 Average building width (WBL) No default ! WBL = 20.0 !↓ 636 (in meters)↓ 637 I 638 Average line source width (WML) No default ! WML = 18.0 !↓ 639 (in meters)↓ 640 Average separation between buildings (DXL) No default ! DXL = .1 !↓ 641 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓			
Average building height (HBL) No default ! HBL = 1.0 !↓ 632 Average building width (WBL) No default ! HBL = 20.0 !↓ 633 Average building width (WBL) No default ! WBL = 20.0 !↓ 634 (in meters)↓ (in meters)↓ 635 Average line source width (WML) No default ! WBL = 18.0 !↓ 638 Average line source width (WML) No default ! WML = 18.0 !↓ 639 (in meters)↓ (in meters)↓ 641 Average separation between buildings (DXL) No default ! DXL = .1 !↓ 642 (in meters)↓ 643 643 ↓ Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓			
632 Average building height (HBL) No default ! HBL = 1.0 !↓ 633 (in meters)↓ 634 No default ! WBL = 20.0 !↓ 635 Average building width (WBL) No default ! WBL = 20.0 !↓ 636 (in meters)↓ 637 I 638 Average line source width (WML) No default ! WML = 18.0 !↓ 639 (in meters)↓ 640 Average separation between buildings (DXL) No default ! DXL = .1 !↓ 641 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
634 ↓ No default ! WBL = 20.0 !↓ 635			
635 Average building width (WBL) No default ! WBL = 20.0 !↓ 636 (in meters)↓ 637 Average line source width (WML) No default ! WML = 18.0 !↓ 638 Average line source width (WML) No default ! WML = 18.0 !↓ 639 (in meters)↓ (in meters)↓ 640 Average separation between buildings (DXL) No default ! DXL = .1.!↓ 641 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓	633	(in meters)↓	
637 Image: Average line source width (WML) No default ! WML = 18.0 !↓ 639 (in meters)↓ 640 (in meters)↓ 641 Average separation between buildings (DXL) No default ! DXL = .1 !↓ 642 (in meters)↓ 643 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓			
637 Image: Average line source width (WML) No default ! WML = 18.0 !↓ 639 (in meters)↓ 640 (in meters)↓ 641 Average separation between buildings (DXL) No default ! DXL = .1 !↓ 642 (in meters)↓ 643 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓	636	(in meters)↓	
639 (in meters)↓ 640 ↓ 641 Average separation between buildings (DXL) No default ! DXL = .1 !↓ 642 (in meters)↓ 643 ↓ 643 ↓ 644 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓	637		
639 (in meters)↓ 640 ↓ 641 Average separation between buildings (DXL) No default ! DXL = .1 !↓ 642 (in meters)↓ 643 ↓ 643 ↓ 644 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓	638	Average line source width (WML) No default ! WML = 18.0 !	
640 ↓ 641 Average separation between buildings (DXL) No default ! DXL = .1 !↓ 642 (in meters)↓ 643 ↓ 644 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓	639	(in meters)↓	
642 (in meters)↓ 643 ↓ 644 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓	640	4	
642 (in meters)↓ 643↓ 644 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0!↓	641	Average separation between buildings (DXL) No default ! DXL = .1 !	
643 ↓ 644 Average buoyancy parameter (FPRIMEL) No default ! FPRIMEL = 500.0 !↓	642		
		<u><u></u></u>	
	644	Average buoyancy parameter (FPRIMEL) No default FPRIMEL = 500.0	14
645 (In m**4/s**3)	645		

Set source name (SRCNAM), X and Y coordinate of starting and ending point, emission height, elevation, and emission (X) for each source at "15b".

C:WCALPU	FF_USEPA_Approved#CALPUFFVCPUF_MajorR_CM2_2015.INP - 5/7
	編集(E) 表示(V) 検集(S) ウィンドウ(W) マクロ(M) その他(O) 1668:
	ejorR_CM2_2015.INP
1650	au
1651	
1652	+
	BUOYANT LINE SOURCE: CONSTANT DATA
1654	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1655	والمتعاد والمراجع ومستركب والمراجع والمراجع والمراجع والمتعجل ومروا ومتعارضه والراجعة المتعار ومتراجع والمتعاد والمراجع
	Source Beg. X Beg. Y End. X End. Y Release Base Emission
1657	No. Coordinate Coordinate Coordinate Height Elevation Rates
1658	(km) (km) (km) (m)
1659	11 000000 - 11 - 01 1
1660	1! SRCNAM = 1-Ln01 ! 1! X = 643.0726911.5313.5124338.642.9576074.5314.5491643.0.5.1320.5.8.26665E-02.6.66227
1661	
1663	
1664	
1665	
	41 SRCNAM = 4-Ln02 1
1667	41. X = 642. 3498118, 5312. 5429384, 642. 3175325, 5312, 1530354, 0. 5, 1314, 1, 57162E-02, 1, 26660E-
1668	5! SRCNAM = 5-LnO2 14
1669	
1670	
	6! X = 643. 2649285, 5312. 3184418, 643. 0726911, 5313. 5124338, 0. 5, 1313, 3, 69907E-02, 2, 98116E-
1672	7! SRCNAM = 7-Ln04-1 !
1673	7! X = 644. 0038064. 5312. 9759348. 643. 5802832. 5313. 2648333. 0. 5. 1320. 5. 2. 29209E-02. 1. 8472
1674 1675	
1676	
1670	
R17" f	下候補 次の結果 単語を走。分割505 切り抜き 主。 貼り付け 約151507 70564 行番号表 日本語(Shith-JIS) 溝入モード

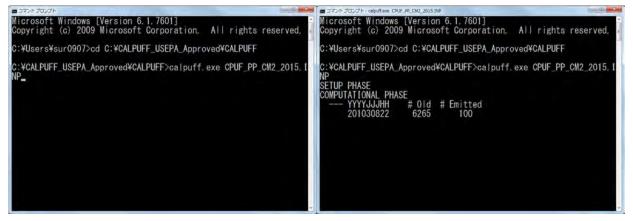
Set source name (SRCNAM), emission pattern type (IVARY) and emission pattern by substance for each source at "15c". For "IVARY", you can set "1" (for each time), "2" (for each month), "3" (for each season and time), etc. If not set "IVARY", emission pattern is regarded as constant.

ファイル(ド)	編集(E) 表示(V) 検索(S) ウィンドウ(W) マクロ(M) その他(O)		2114:
1 0	អាខ្លានដែលមហោចគេខ		
CPUF_N	KajorR_CM2_2015.1NP		
2091	1! IVARY = 3 !! 1! SO2 = 0.32756.0.20654.0.16825.0.12320.0.08789.0.08963.0.11138.0.63864.1.	32617.1	. 3510
2092 2093 2094 2095 2095 2096 2097 2098	1, 55385, 1, 55384, 1, 54479, 1, 49476, 1, 50714, 1, 64327, 1, 55806, 1, 41949, 0, 36253, 0, 24154, 0, 18133, 0, 12997, 0, 10381, 0, 10073, 0, 14174, 0, 75003, 1, 57228, 1, 54745, 1, 56326, 1, 54099, 1, 54505, 1, 90043, 1, 81161, 1, 64283, 0, 37660, 0, 25700, 0, 18607, 0, 13202, 0, 11090, 0, 10535, 0, 15590, 0, 79942, 1, 56410, 1, 53575, 1, 55521, 1, 54745, 1, 54730, 2, 01256, 1, 92288, 1, 74031, 0, 35889, 0, 23924, 0, 17946, 0, 12860, 0, 10283, 0, 09973, 0, 14050, 0, 74293, 1, 55502, 1, 53038, 1, 54610, 1, 52428, 1, 52830, 1, 88217, 1, 79430, 1, 62706	1.42988. 1.13379. 1.46760. 1.11549. 1.41514.	1.447 0.934 1.481 0.931 1.432
2099	END!↓ 2! SRCNAM = 1-Ln01 !↓ 2! IVARY = 3 !↓ 2! S04 = 0.32756.0.20654.0.16825.0.12320.0.08789.0.08963.0.11138.0.63864.1 1.55385.1.53634.1.54479.1.49476.1.50714.1.64327.1.55806.1.41949. 0.36253.0.24154.0.18133.0.12997.0.10381.0.10073.0.14174.0.75003.	32617, 1 1, 14438, 1, 42988, 1, 13379, 1, 46760, 1, 11549, 1, 41514,	. 3510 0. 920 1. 447 0. 934 1. 481 0. 931 1. 432
2112	31 IVARY = 3 1. 31 NOX = 0.32756, 0.20654, 0.16825, 0.12320, 0.08789, 0.08963, 0.11138, 0.63864, 1. J 55385, 1.53634, 1.54479, 1.49476, 1.50714, 1.64327, 1.55806, 1.41949, 0.36253, 0.24154, 0.18133, 0.12997, 0.10381, 0.10073, 0.14174, 0.75003, 1.57228, 1.54745, 1.56326, 1.54089, 1.54505, 1.90043, 1.81161, 1.64283, 1.57228, 1.54745, 1.56326, 1.54745, 1.55326, 1.54565, 1.54565, 1.90043, 1.81161, 1.54283, 1.57228, 1.54745, 1.55326, 1.54745, 1.55326, 1.54565, 1.54565, 1.50043, 1.81161, 1.54283, 1.57228, 1.54745, 1.55326, 1.54745, 1.55326, 1.54565, 1.54565, 1.54565, 1.54565, 1.54565, 1.54565, 1.5565, 1.54565, 1.5565, 1.54565, 1.556	1. 14438, 1. 42988, 1. 13379, 1. 46760	0.920

Set number of calculation point other than grid (NREC), and X coordinate, Y coordinate, elevation, and height above ground (X) for calculation point as necessary. Example of calculation point is ambient monitoring station.

, CPUF_2015_KT_CMET_UME_20150n26JNP - G#2	
文件(F) 編編(E) 権式(O) 重新(V) 解助(H)	
INPUT GROUPS 17a & 17b - Non-gridded (discrete) receptor information	
Subgroup (17a)	_
Number of non-gridded receptors (NREC). No default $+$ NREC = 6	
END	
Subgroup (17b)	
NON-GRIDDED (DISCRETE) RECEPTOR DATA	
X Y Ground Height b Receptor Coordinate Elavation Above Ground No. (km) (km) (m) (m)	
11 X = 691 3335931, 3093 3638209, 340, 151 [END 21 X = 69823514763, 30930 9926478, 340, 151 [END 31 X = 69842740, 3094581675, 340, 151 [END 41 X = 6777731069, 30948 91072780, 340, 151 [END 51 X = 6894792678, 30782 83988 3340, 151 [END 51 X = 6897392678, 30782 83988 3340, 151 [END 61 X = 6973,3034071, 30994251530, 340, 151 [END	
B Data for each receptor are treated as a separate input subgroup, and therefore must end with an input group terminator.	
b Receptor height above ground is optional. If no value is entered, the receptor is placed on the ground.	
	43
	第 5470 行, 第 52 列

Move the "CALPUFF" folder in command prompt, input "calpuff.exe <input file name>.INP", and press [Enter] (Here it is "CPUF_PP_CM2_2015.INP"). After starting the calculation, you can check this running progress.



When showing "TERMINATION PHASE" message and completing calculation, you check to make output files. Output file is "CPUF_PP_CM2_2015_CON" in this case.



6.2 Output of Calculation Result

6.2.1 <u>Outline</u>

Since the calculation result of CALPUFF is compressed data, it cannot be opened with a text editor such as Notepad. Therefore, extract the calculated concentration for each grid or each specified point from the compressed data using the CALPOST processor.

In CALPOST, set the input file, output file, calculation term, output target substance, output range, calculation result the period (1 hour average, daily average, annual average, etc.).

CALPUFF calculation is conducted with NOx, but the substance of environmental standard is NO2. Therefore, set the equation to convert NOx to NO2. The conversion formula in CALPOST is [NO2] = a[NOx] and value of "a" is specified as 0.75 according to the standard for environmental impact assessment in China¹⁰, but it is necessary to consider to set this value matching to the current situation of Mongolia.

6.2.2 Conducting Method

Open INP file in "CALPOST" folder.

整理 * 🗋 開く * 新しい	ハフォルダー				855 👻	(
🧯 ダウンロード 🔹	名前	更新日時	種類	サイズ	属性	
📃 デスクトップ	2015 20160621 CondensedDust	2016/06/21 13:51	ファイル フォル		D	
121 最近表示した場所	1 2015_20160625_primary_FD	2016/06/27 10:22	ファイル フォル		D	
	2015_20160627_primary_FD	2016/06/27 16:37	ファイル フォル		D	
(⇒ ライブラリ =	📕 old	2015/07/16 11:17	ファイル フォル		D	
F#1X2h	📕 v6.221	2015/03/19 15:50	ファイル フォル		D	
■ ピクチャ	Calpost.bat	2016/05/12 8:54	Windows バッチ	1 KB	A	
	calpost.exe	2015/03/20 18:17	アプリケーション	4,979 KB	A	
ビデオ	S calpost_2014.bat	2016/05/19 9:22	Windows バッチ	1 KB	A	
こユージック	Calpost_2015.bat	2016/06/27 10:09	Windows バッチ	1 KB	A	
	calpost_150319.exe	2015/03/19 15:49	アプリケーション	10,933 KB	A	
🌉 コンピューター	Calpost_PP_CM2_2015.inp	2016/06/20 10:36	INP ファイル	35 KB	A	
A Windows7 OS (C:)	calpostl_080724.exe	2008/07/24 16:25	アプリケーション	11,255 KB	A	
INF00X (¥¥mercury) (I	CALPUFF.CON	2008/08/04 16:13	CON ファイル	432 KB	A	
KK1205 (¥Ypluto) (1:)	README.TXT	2006/04/07 21:01	テキスト文書	4 KB	A	
		時: 2016/07/08 15:10				

Set the result file calculated by CALPUFF as input file (MODDAT).

CALPUFF_USEPA_ApprovedVCALPOSTVCelpost_PP_CM2_2015.inp :表丸	
ル(F) 編集(E) 表示(V) 検索(S) フィンドウ(W) マクロ(M) その他(O)	16:
تلوه، ۲۹۹۲ کی	195
9	
0	
1 INPUT GROUP: 0 Input and Output File Names	
2	
3 4	
4 Input Files	
5	
6 4	
7 File Default File Name	
9 Conc/Dep Flux File MODEL DAT ! MODDAT =/CALPU	UEE (ODUE DD ONO 0015 000 1
	UFF/CPUF_PP_CM2_2015. CON
20 Relative Humidity File VISB.DAT * VISDAT = *↓ 21 Background Data File BACK.DAT * BACKDAT = *↓	
22 Transmissometer or VSRN DAT * VSRDAT = *	
3 Nephelometer Data File or↓	
A DATSAV Weather Data File or	
5 Prognostic Weather File	
10 Progrosero meacher inte	
1/3 丁保護 次の結果 単語をま*- 分割201* 切り抜き ま*- 私り付け 575/507	7550幅 行番号表 日本語(Shift-JUS) 挿入モード

¹⁰ Guidelines for environmental impact assessment Atmospheric environment (in Chinese) (HJ2.2-2008)

Set output file name (PSTLST), and the destination folder of output result file (PLPATH).

C:#CALPU	SEPA_ApprovedVCALPOSTVCelpost_PP_CM2_2015.inp - 秀克	
ファイル(日)	E) 表示(V) 検索(E) ラインドラ(M) マクロ(M) その他(Q)	40:42
00		
Calpost	12_2015.inp	(<u>x</u>)
33 - 34 - 35 F 36 - 37 L 38 - 39 F 40 (41 P 42 - 43 F 44 (Image: Image	<u>. m</u>
46	where the set and the set of the	-
劳丸17~49	下機構 次の局間 単語を定っ 分割つい… 切り抜き 北*ー 胎り付け 975*737 75957編… 行番号表… 日本語(Shift)IS) 3	挿入モード

Set the part of output file (TUNAM).

器 C:%CALPUFF_USEPA_ApprovedWCALPOST%Calpost_PP_CM2_2015.inp - 秀丸	
ファイル(F) 編集(E) 表示(V) 検索(S) ウィンドウ(W) マクロ(M) その他(O)	50:1
Calpost_PP_CM2_2015.inp	
45 providing NON-BLANK character string)↓ 46↓	
40 User Character String (U) to augment default_filenames↓ 48 (activate_with_exclamation_points_only_if↓ 49 providing NON-BLANK character string)↓ 50 ↓	
51 Timeseries TSERIES_ASPEC_ttHR_CONC_TSUNAM.DAT 52 Peak Value PEAKVAL_ASPEC_ttHR_CONC_TSUNAM.DAT 53 4 * TSUNAM = *4	
55 ↓ 56 Top Nth Rank Plot RANK(ALL)_ASPEC_ttHR_CONC_TUNAM.DAT↓ 57 or RANK(ii)_ASPEC_ttHR_CONC_TUNAM.GRD↓ 58 ↓	
59	
61 Exceedance Plot EXCEED_ASPEC_ttHR_CONC_XUNAM_DATU 62 or EXCEED_ASPEC_ttHR_CONC_XUNAM_GRDU 63 U	
64 65 ↓ * XUNAM = *↓	
秀丸17(4 下候補 次の結果 単語を文"・ 分割から" 切り抜き 文"・ 一届り付け がいいか 7015(781 行番号表	日本語(Shift-JIS) 挿入モード

Set target calculation term (METRUN). When setting "0", you have to set the calculation starting date and time (ISYR, ISMO, ISDY, ISHR, ISMIN, and ISSEC) and calculation ending date and time (IEYR, IEMO, IEDY, IEHR, IEMIN, and IESEC). When setting "1", the calculated term by CALPUFF is target calculation term. In addition, set time zone (BTZONE).

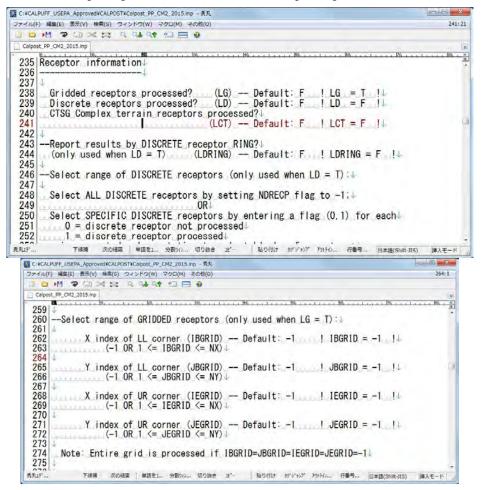
フイバ(E)	編集(E) 表示(V) 検索(S) ウィンドウ	(W) マクロ(M) その他(O)				125:7
	M 7 10 - 11 A 14						
Calpost	PP_CM2_2015.inp						
B	8 I 10 I k					· · · · · PA	. 80
	INPUT GROUP: 1 Ger	neral run con	trol para	meters			
109 -							
110		1	1.44				
111	Option to run a	Il periods to	und↓				
	in the met. file	e(s) (METRUN	Lingelt	Default: 0	! METRUN =	and have been	
113							
	METRUN = 0 -						
		- Run all per	lods in C	ALPUFF dat	a file(s)		
116			(1)			1000 11	
	Starting date:				It ! ISYR :		
	THE REAL PROPERTY AND ADDRESS OF THE REAL PROPERTY AND ADDRESS br>ADDRESS ADDRESS			No defau		and a second sec	
119		Day (IS	JY)			= 0 14	
	Starting time:				It I ISHR		
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	and brind broken	Second (IS	SEC)	No defau	It ! ISSEC :	= 0 !	
	*		-				
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	CANDON CA 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			No defau			
	Address of the second second		DY)	No defau		= 0 14	
	Ending time:			No defau		= 0 !!	
				No defau			
	21111111111111111111111111111111111111	Second (IE	SEC)	No defau	It ! IESEC :	= 0 !4	
130							
	(These are only	used if METR	$JN = 0) \downarrow$				
132		Carrie Constants		a la cina	in the second second		
	All times are in						
	CALPUFF Dataset						
	do not, and the						
136	number of hours					(or GMT) 1	
137	Identify the Bas						
	united and a second second second	(BT	ZONE)	No default	! BTZONE =	-8.0 !	
139	4						

Set outputted target species (ASPEC). When setting "NO2" as outputted target species, set the ratio for converting from NOx to NO2 (RNO2NOX). The value in "Guidelines for environmental impact assessment Atmospheric environment" in China is "RNO2NOX" = 0.75.

C:VCALPUFF_USEPA_ApprovedvCALPOST¥Calpodt_PP_CM2_2015.inp - 秀丸	163:70
ファイル(丘) 編集(丘) 表示(女) 検索(丘) ウィンドウ(山) マクロ(山) その信(Q)	103:70
Calpost_EP_CM2_2015.inp	12
147	1. M
148	
149 Species to process (ASPEC) No default ! ASPEC = PM10 !	
150 (ASPEC = VISIB for visibility processing)↓	
150 ASFEC - VISID FOR VISIDITILY processing/↓	
152 Layer/deposition code (ILAYER) Default: 1 ! ILAYER = 1 !	
155	
156	
158 Scaling factors of the form: Defaults: ! A = 0.0	
159 $X (new) = X (old) * A + B A = 0.0 ! B = 0.0 ! .$	
160 (NOT applied if A = B = 0.0) B = 0.0	
161 4	
162 Add Hourly Background Concentrations/Fluxes?4	
163 (LBACK) - Default: F ! LBACK = F !	
164	
秀丸13* 下破縄 次の編集 単語を2 分割9/0 切り抜き 11*- 鮎り付け がっとも2* 79540 行番号 日本語(Shift-315)	挿入モード

	PUFF_USEPA_Approved¥CALPOST¥Csipost_PP_CM2_2015.inp - 秀先) 編集(E) 表示(y) 核素(S) ウィンドウ(W) マクロ(M) その抱(Q)	179:3
		47914
	M > C > X = A A A C = O	
Calpos	it_PP_CM2_2015.inp	5
166	Source of NO2 when ASPEC=NO2 (above) or LVNO2=T (Group 2) may be	Live Mar
	from CALPUFF NO2 concentrations OR from a fraction of CALPUFF NOx	
	concentrations. Specify the fraction of NOx that is treated as NO24	
	either as a constant or as a table of fractions that depend on the	
	magnitude of the NOx concentration:4	
	(NO2CALC) Default: 1 ! NO2CALC = 1 !	
172	0 = Use NO2 directly (NO2 must be in file)	
	1 = Specify a single NO2/NOx ratio (RNO2NOX)	
	2 = Specify a table NO2/NOx ratios (TNO2NOX)	
	(NOTE: Scaling Factors must NOT be used with NO2CALC=2) 4	
176		
	Single NO2/NOx ratio (0.0 to 1.0) for treating some	
178		
179		
180		
181	+	
182	Table of NO2/NOx ratios that vary with NOx concentration.	
183		
BRIP	下標補 次の結果 単語を1 分割かつ 切り抜き 北・ 私り付け がアデャンプ 705/0 行番号 日本調(Shift-US)	挿入モード

Set the target calculation result for output. When outputting the calculation result of each grid, set "LG=T" and set the target output range of calculation result with grid number (IBGRID, JBGRID, IEGRID, and JEGRID). On the other hand, when outputting the calculation result of each point specified in CALPUFF, set "LD=T"



Set the unit of output concentration (IPRTU).

CI¥CAL	PUFF_USEPA_ApprovedWCALPOSTWCalpost_PP_CM2_2015.inp - 秀丸	
) 編集(E) 表示(Y) 株素(E) ウィンドウ(W) マクロ(M) その他(Q)	606:1
10	***************************************	
Calpos	t_PP_CM2_2015.inp	18
601	INPUT GROUP: 3 Output options↓	Line Bir a
602	INFOT acourt of tonst	
603		
	Documentation	
605	Documental Font	
606	1	
607	Providential provide contained in the booder of the line of the	
608	Documentation records contained in the header of the	
609	CALPUFF output file may be written to the list file.	
610	LDOC) Default: F ! LDOC = F !	
611	(LDOC) Derault. r. ! LDOC = r !+	
	Output Units	
613		
614	Units for All Output (IPRTU) Default: 1 ! IPRTU = 3 !	
615	for for	
616	Concentration Deposition	
617	1 = g/m**3 g/m**2/s	
618	2 = mg/m**3 mg/m**2/s	
619	3 = ug/m**3 ug/m**2/st	0
620	4 = ng/m**3 ng/m**2/s	
621	5 = Odour Units	
622	d d d d d d d d d d d d d d d d d d d	
623	Visibility: extinction expressed in 1/Mega-meters (IPRTU is ignored)	
624		
RIF		挿入モード

Set the flag to calculate one hour averages (L1HR), three hours averages (L3HR), 24 hours averages (L24HR), and run-length averages (LRUNL). Set the selecting averaged term to "T" and set the others to "F".

臺C:#CALPUFF_USEPA_Approved#CALPOST#Calpost_PP_CM2_2015.inp - 死死	
ファイル(E) 編集(E) 表示(V) 検索(E) ウィンドウ(W) マクロ(M) その物(Q)	626:27
Calpost_PP_CM2_2015.inp	1.5
625 4	and an arrived the state
626 Averaging time(s) reported	
627	
628 J	
629 1-pd averages (L1PD) Default: T ! L1PD = F !↓	
630 (pd = averaging period of model output)↓	
631 4	
6321-hr_averages(L1HR) Default: T!_L1HR = F!↓	
633 4	
634 3-hr averages (L3HR) Default: T ! L3HR = F !4	
635 4	
63624-hr_averages(L24HR)Default: T! L24HR = F _!↓	
637 1	
638 Run-length averages (LRUNL) Default: T ! LRUNL = T !!	
639 ↓	
640 User-specified averaging time in hours, minutes, seconds	
641 - results for this averaging time are reported if it is not zero	
642 1	6
643 (NAVGH) Default: 0 ! NAVGH = 0 !	
644 (NAVGM) Default: 0 ! NAVGM = 0 !	
645 (NAVGS) Default: 0 ! NAVGS = 0 !4	
646 4	
秀丸15° 下横捕 次の結果 単語を1 分割???	15) 挿入モード

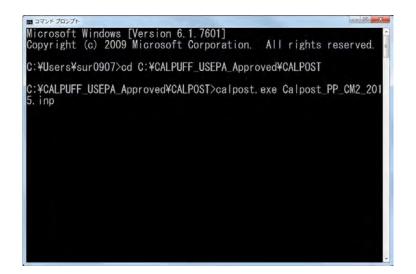
Set to output the concentration from top to Nth place among the concentration for each point.

C:¥CALPUFF_USEPA_Approved¥CALPOST¥Calpost_PP_CM2_2015.np - 秀丸 アイル(F) 編集(E) 表示(V) 検索(S) ウィンドウ(V) マクロ(M) その物(O)	659:27
Calpost_PP_CM2_2015.inp 8. 100 100 100 100 100 100 100 100 100 10	NS 1 100
658	lot i i i i i i i i i i i i i i i i i i i
659 2) Top 50 table for each averaging time selected↓ 660 [List file only]↓	
661	
663 3) Top 'N' table for each averaging time selected↓	
664 [List file or Plot file]↓ 665 (LTOPN) Default: F ! LTOPN = T !↓ 666 ↓	
667 — Number of 'Top-N' values at each receptor↓ 668 selected (NTOP must be <= 4)↓	
669 (NTOP) Default: 4 ! NTOP = 1 !	
670↓ 671 Specific ranks of Top-N' values reported↓	
672 (NTOP values must be entered) 673 (ITOP(4) array) Default: ! ITOP = 1 !↓	0
674 675 J	
丸171 下線補 次の結果 単語を1 分割の0 切り抜き ピー 「私り付け がゲわげ わわり 行番号 日本語	(Shift-JIS) 挿入モード

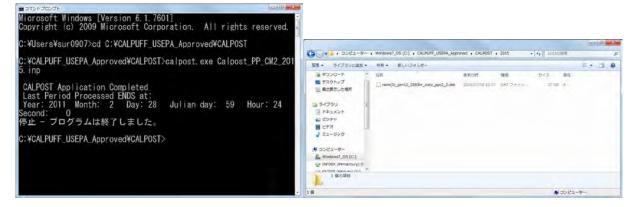
Set the format of output. Set either list format (LPLT) or grid format (LGRD) to "T".

器 C:WCALPUFF_USEPA_ApprovedWCALPOSTWCalpost_PP_CM2_2015.inp · 秀丸	
ファイル(E) 編集(E) 表示(Y) 検索(E) ウィンドウ(W) マクロ(M) その相(Q)	745:1
Calpost_PP_CMZ_2015.inp	13
729 Plot output_options↓ 730	Las es Barris
 Plot files can be created for the Top-N. Exceedance, and Echol tables selected above. Two formats for these files are available. DATA and GRID. In the DATA format, results at all receptors are listed along with the receptor location [x, y, vall, val2,]. In the GRID format, results at only gridded receptors are written. using a compact representation. The gridded values are written inl. rows (x varies), starting with the most southern row of the grid. The GRID format is given the .GRD extension, and includes headers. compatible with the SURFER(R) plotting software. 	
741 ↓ 742 A plotting and analysis file can also be created for the daily↓ 743 peak visibility summary output, in DATA format only.↓ 744 ↓	
745 Generate Plot file output in addition to writing tables↓ 746 to List file?↓	
747 748↓ (LPLT) Default: F ! LPLT = T !↓	
749 Use GRID format rather than DATA format,↓ 750 when available?↓	
751 (LGRD) — Default: F ! LGRD = F !↓ 752 ↓	
秀丸151	挿入モード

Move the "CALPOST" folder in command prompt, input "calpost.exe <input file name>.INP", and press [Enter] (Here it is "Calpost_PP_CM2_2015.INP").



When showing "Stop – Program terminated" message and completing calculation, you check to make output files. Output file is "rank(0)_pm10_2880hr_conc_ppc2_2.dat" in this case.



When opening the output file, the following figure is displayed. X coordinate, Y coordinate, and concentration by calculation point is outputted.

CACALART)S	204_ApprovedCaLPOTTABLETamole(0)_pm10_2000v_cove_pp22_8-xe + R4	1. C. M.
2 2 d 4 (5) # # (5)	[第2]13 第月13 (1-1-1-1-1) 本(1-1-1)	1/1
T to +M	7 (1) (3) (2) (4) (4) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	
(3)(3)	1801. January 2, Ann	Ĵ.
1	2880 HOUR AVERAGE CONCENTRATION VALUES AT EACH RECEPTOR (UE/IN++	3)
3	PM10 1-	
456	RECEPTOR (x, y) km VALUE	
7	623.500 5298.500 6.1384E-02 624.500 5298.500 7.4258E-02	
8	625. 500 5298. 500 1. 2471E-01	
10	626. 500 5298. 500 1. 4571E-01 627. 500 5298. 500 1. 7458E-01	
12	628, 500 5298, 500 3, 3884E-01	
13	629. 500 5298. 500 4. 0481E-01	
14	630 500 5298 500 2 7945E-01	
15	631.500 5298.500 3.0814E-01	
16	632.500 5298.500 4.7125E-01 633.500 5298.500 6.4384E-01	
18	634 500 5298 500 1 6027E+00	
19	635. 500 5298. 500 4. 0984E+00	
20	636. 500 5298. 500 5. 9486E+00	
RRUTH.	THE DOLE MELT - NEVER X- MONT WINE THESE THESE - HERES HERDINES	MAL-F .

6.3 Organizing Calculation Result

6.3.1 <u>Outline</u>

The results calculated for each source type output in 6.2 are summarized in the table below and the total concentration for each grid is calculated. For this tabulation, Excel or Access is used. The result of this

tabulation is used to confirm the accuracy of the model, to create a concentration distribution chart, etc. and to evaluate the emission reduction plan.

6.3.2 Conducting Method

Open the calculation result file of concentration by grid outputted by CALPOST and copy the relevant range.

			クロ(<u>M</u>) その他(<u>O</u>)			959:1
3 🗅 🕨			1 □ □ -			
	m10_2880hr_conc_ppc2_2.c					×
942	640, 500		00 2.	<u>5512F−01</u>	, 40, , , , , , , , , ,	50 «
040	641.500		00 3	6323E-01		· · · · · · · · · · · · · · · · · · ·
011	C10 E00		00 3.	7247E-01		
			00 5.	3536E-01		
040	C44 E00		00 7	0434E_01		
047		EARE E	~~ ~	3434L-01↓ 7555E_01↓		
040	CAC E00		00 8. 00 8.	7555E-01↓ 8473E-01↓		
	647 500		~~~~~~	0473E ⁻ 01↓		
	647.500	~~~~~	<u>9.</u>	2904E-01		
	648.500		008.	3187E-01↓		
	649.500		8.	8340E-01↓		
952	650.500		9.	UZ37E-01↓		
	651.500		00 8.	7720E-01↓		
	652.500		<u> </u>	1193E-01↓		
	653.500		00 5.	1002E-01↓		
	654. 500		00	7944E-01↓		
	655. 500	5325. 5	00 <u>6</u> .	6132E-01↓		
958	656. 500	<u>5325. 5</u>	<u>00 5.</u>	8485E-01↓		
959 [[E0F]					

Open excel file and paste the copied data.

x) 🖬	1 - Th + 1					Book1 - N	Scrosoft Excel					00	
File	Home	Insert Page	Layout	Formulas Dat	a Review	yiew D	eveloper A	crobat Team					- @ I
	A1	+ (°.	fx 1	623.500 5298.500	6.1384E-0	z							
1	A	В	С	D	E	F	G	н	1	1	K	L	
1	623.50	5298.500	6.138	34E-02									
2	624.50	5298.500	7.425	58E-02									
3	625.500	5298.500	1.247	1E-01									
4	626.50	5298.500	1.457	1E-01									
5	627.50	5298.500	1.745	8E-01									
6	628.50	5298.500	3.388	34E-01									
7	629.50	5298.500	4.048	B1E-01									
8	630.50	5298.500	2.794	I5E-01									
9	631.50	5298.500	3.081	4E-01									
10	632.50	5298.500	4.712	5E-01									
11	633.500	5298.500	6.438	34E-01									
12	634.50	5298.500	1.602	7E+00									
13	635.50	5298.500	4.098	84E+00									
14	636.50	5298.500	5.948	86E+00									
15	637.50	5298.500	7.159	8E+00									
16	638.500	5298.500	7.022	25E+00									
17	639.50	5298.500	7.261	LOE+00									
18	640.50	5298.500	8.227	9E+00									
19	641.50	5298.500	8.016	64E+00									
20	642.50	5298.500	7.511	19E+00									
21	643.50	5298.500	6.886	5E+00									
22	10000	5298.500		2E+00									
		Sheet2 She	tet3 P2	2				D*C		a dia constant	TR alar		*0
Ready	12								Cou	ML952	🛄 130% 💮		()

Select the pasted column and click [Data]-[Text to Columns].

Data	Review	View	Developer	Acrobat	Team	
ections arties links	A Z↓ AZ ZA Sort	Filter	K Clear Reapply Advanced	Text to Columns	Remove	Data Validation *
15		Sort & Fil	ter		Data	Tools

Select [Fixed width – Fields are aligned in columns with spaces between each field] in [Original data type] and click [Next].

The Text Wizard has determined that your data is Fixed Width. If this is correct, choose Next, or choose the data type that best describes your data. Original data type Choose the file type that best describes your data: ① Delimited · Characters such as commas or tabs separate each field. ② Pelimited · Characters such as commas or tabs separate each field. ③ Fixed width · Fields are aligned in columns with spaces between each field. Preview of selected data: 1 623.500 5298.500 7.42582-02 2 624.500 5298.500 1.24712-01 4 626.500 5298.500 1.74582-01		t Text to Colu	umns Wizard -	Step 1 of 3	8 X
Original data type Choose the file type that best describes your data:	he Tex	ct Wizard has de	termined that yo	ur data is Fixed Width.	
Choose the file type that best describes your data: Delimited Characters such as commas or tabs separate each field. Fixed width Fields are aligned in columns with spaces between each field. Preview of selected data:	f this is	correct, choose	e Next, or choose	e the data type that best describes your da	ita.
Choose the file type that best describes your data: Delimited Characters such as commas or tabs separate each field. Fields are aligned in columns with spaces between each field. Preview of selected data:	Origina	al data type			
Delimited - Characters such as commas or tabs separate each field. If ixed width - Fields are aligned in columns with spaces between each field. Preview of selected data:	1.0		that best describe	es vour data:	
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17	638.5	5298.5	7.02E+00	8.26E-01	1.92E-01	1.15E+01	1.88E-01	6.08E-02	6.39E-01	2.42E-01	1.64E+00	0.00E+00	2.23E+01			
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Insert three columns at the first column and name each column as "IXIY", "Column", and "Row" in order from the left.

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Draw cross-section diagram of concentration by source using this table, and draw concentration distribution map by importing the table into Access.

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631.5 5298.5	3.08E-01 9.50E-01 1.22E-01	6.73E+00 9.97E-02 3.75E-0	2 3.24E-01 1.49E-01 1.14E+00 0	00E+00 9.86E+00
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634.5 5298.5	1.60E+00 8.91E-01 1.70E-01	9.83E+00 1.51E-01 5.00E-0	2 4.90E-01 1.95E-01 1.53E+00 0	.00E+00 1.49E+01
635.5 5298.5	4.10E+00 8.73E-01 1.78E-01	1.05E+01 1.73E-01 5.28E-0	2 5.64E-01 2.06E-01 1.58E+00 0	.00E+00 1.82E+01
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637.5 5298.5	7.16E+00 8.41E-01 1.89E-01	1.15E+01 1.81E-01 5.76E-0	2 6.12E-01 2.29E-01 1.62E+00 0	.00E+00 2.24E+01
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641.5 5298.5	8.02E+00 7.84E-01 1.88E-01	1.14E+01 1.97E-01 6.66E-0	2 7.04E-01 2.70E-01 1.65E+00 0	.00E+00 2.33E+01
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6.4 Comparing between Calculated Value and Measured Value and Considering the Improvement Accuracy of Dispersion Simulation Model

To evaluate the accuracy of dispersion simulation model, draw correlation diagram between the calculation value by dispersion simulation and the measurement value in ambient monitoring stations. However, if the number of monitoring station whose measured value is more than the number of effective measurement time is less than three stations, this value by this method become reference value and cannot use to evaluate. Draw scatter diagram with the horizontal axis as calculated value and the vertical axis as measured value and draw the approximation straight line with intercept zero. If there is the data of the ambient monitoring station that assumes not to be affected by source, the concentration at that station is taken as the value of intercept. This value is called the background concentration.

When slope of approximation straight line is close to 1 as much as possible within the range of 0.8 to 1.2 and correlation coefficient is 0.71 or more, it means that the calculation result by dispersion simulation model can reproduces the actual situation more accurately. On the other hand, when correlation coefficient is less than 0.71, it means that there is no consistency between calculated value and measured value.

Also, when slope of approximation straight line is larger than 1.2 or smaller than 0.8, it means that the calculation result by dispersion simulation model is underestimated or overestimated for measured value. In either case, the accuracy of the calculation result of dispersion simulation model is not good, so after modifying the setting of input data such as meteorological data and emission data etc., dispersion simulation needs to be conducted again.

If possible, it is recommended to verify not only correlation between monitoring stations but also correlation of hourly concentrations at the same monitoring station. For example, by comparing the measured value with the calculated value with respect to temporal change of one hour concentration and monthly change of monthly average concentration, correlation of concentration change at a monitoring station can be verified. Figure 6.4-1 shows an example of comparing measured values and calculated values of monthly average concentrations.

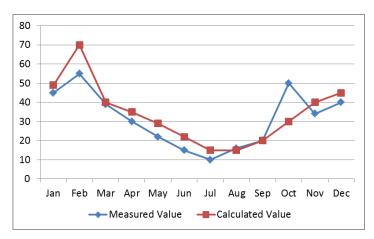
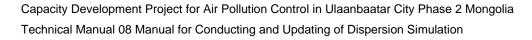
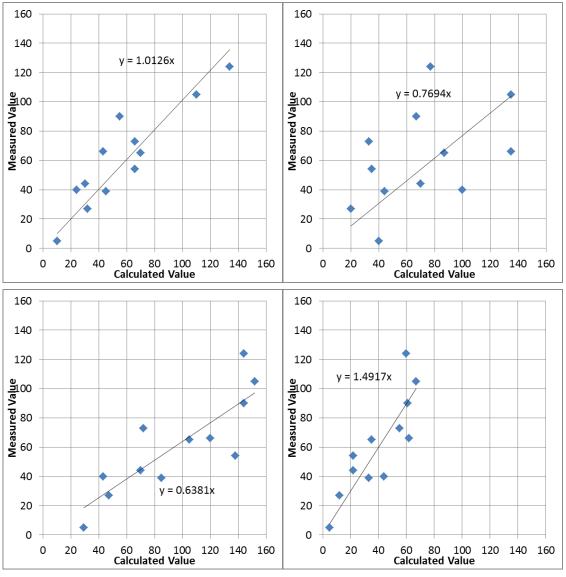


Figure 6.4-1 Example of Comparing Measured Values and Calculated Values of Monthly Average concentrations





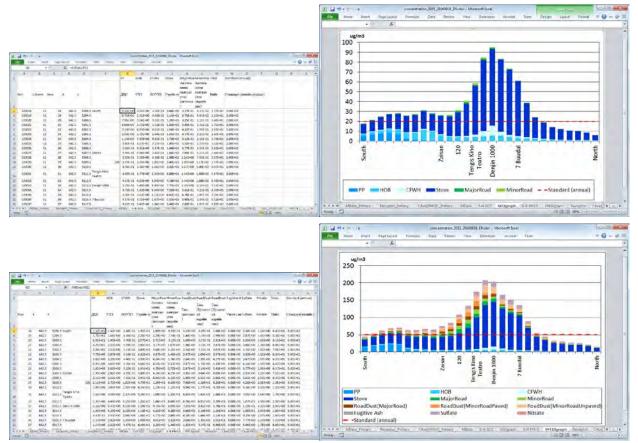
Upper left: dispersion simulation model with good accuracy (correlation coefficient: 0.909) Upper right: correlation is not good (correlation coefficient: 0.471) Bottom left: calculation result is overestimated (correlation coefficient: 0.839) Bottom right: calculation result is underestimated (correlation coefficient: 0.851)

Figure 6.4-2 Comparison Example between Measured Value and Calculated Value

6.5 Drawing Cross-section Diagram of Concentration by Sources

When updating the calculation result in "AllData" sheet, the update is reflected on "S-N SO2" sheet and "S-N PM10" sheet. These sheets are data lists for preparing cross-section diagram of concentration by sources and when updating the values of these sheets, cross-section diagram of concentration by sources is redrawn on "SO2 graph" and "PM10 graph" sheet.

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1	XIY 🔽 C	olumr 👻 Row	× X	Ψ Υ	Y	PP_SO2 -	HOB_S(-	CFWH	Ger_SC 🔻	MajorR 💌	MinorR *	Total_S 💌	PP_PM 👻	HOB_P(💌	CFWH_	Ger_PN 💌	MajorR 💌	MinorR 👻	MajorR 💌	MinorR
2	130018	13	18	623.5	5298.5	3.48E-02	4.77E-01	7.08E-02	1.95E+00	2.27E-02	1.27E-02	2.57E+00	1.12E-01	8.56E-01	6.70E-02	3.93E+00	2.05E-01	1.04E-01	1.22E-01	5.87E-0
3	140018	14	18	624.5	5298.5	4.22E-02	6.60E-01	9.42E-02	2.53E+00	3.15E-02	1.64E-02					5.08E+00	2.88E-01	1.34E-01	1.67E-01	7.87E-0
4	150018	15	18	625.5	5298.5	7.11E-02	1.10E+00	1.35E-01	3.53E+00	4.93E-02	2.42E-02	4.91E+00	2.28E-01	2.03E+00	1.27E-01	7.08E+00	4.46E-01	1.96E-01	2.64E-01	1.39E-0
5	160018	16	18	626.5	5298.5	8.14E-02	1.29E+00	1.54E-01	3.96E+00	5.79E-02	2.70E-02	5.57E+00	2.66E-01	2.36E+00	1.45E-01	7.92E+00	5.27E-01	2.19E-01	3.08E-01	1.55E-0
6	170018	17	18	627.5	5298.5						3.02E-02					8.84E+00	6.37E-01	2.45E-01	3.66E-01	1.72E-0
7	180018	18	18	628.5	5298.5						3.46E-02					1.00E+01	8.00E-01	2.80E-01	4.57E-01	1.97E-0
8	190018	19	18	629.5	5298.5	1.90E-01	1.49E+00	2.14E-01	5.35E+00	9.76E-02	3.80E-02					1.06E+01	8.99E-01	3.07E-01	5.09E-01	2.15E-0
9	200018	20	18	630.5	5298.5	1.26E-01	1.32E+00	2.21E-01	5.49E+00	9.78E-02				1.89E+00		1.09E+01	9.02E-01	3.26E-01	5.04E-01	2.26E-0
10	210018	21	18	631.5	5298.5	1.29E-01	1.28E+00	2.37E-01	5.92E+00	1.03E-01	4.39E-02	7.71E+00	5.62E-01	1.73E+00	2.23E-01	1.17E+01	9.45E-01	3.56E-01	5.28E-01	2.43E-0
1	220018	22	18	632.5	5298.5	1.80E-01	1.38E+00	2.64E-01	6.76E+00	1.17E-01	4.90E-02	8.75E+00	8.60E-01	1.68E+00	2.48E-01	1.32E+01	1.07E+00	3.97E-01	5.97E-01	2.72E-0
12	230018	23	18	633.5	5298.5	2.30E-01	1.44E+00	2.95E-01	7.79E+00	1.31E-01	5.35E-02	9.94E+00	1.18E+00	1.62E+00	2.77E-01	1.52E+01	1.21E+00	4.32E-01	6.64E-01	2.95E-0
L3	240018	24	18	634.5	5298.5	5.75E-01	1.59E+00	3.30E-01	8.72E+00	1.57E-01	5.85E-02	1.14E+01	2.92E+00	1.63E+00	3.10E-01	1.71E+01	1.43E+00	4.73E-01	7.98E-01	3.19E-0
L4	250018	25	18	635.5	5298.5	1.81E+00	1.66E+00	3.45E-01	9.17E+00	1.81E-01	6.19E-02	1.32E+01	7.48E+00	1.59E+00	3.24E-01	1.82E+01	1.64E+00	5.00E-01	9.18E-01	3.36E-0
15	260018	26	18	636.5	5298.5	3.09E+00	1.72E+00	3.58E-01	9.61E+00	1.91E-01	6.43E-02	1.50E+01	1.09E+01	1.56E+00	3.36E-01	1.93E+01	1.72E+00	5.19E-01	9.72E-01	3.53E-0
L6	270018	27	18	637.5	5298.5	4.12E+00	1.78E+00	3.68E-01	9.92E+00	1.94E-01	6.75E-02	1.65E+01	1.31E+01	1.54E+00	3.45E-01	2.00E+01	1.71E+00	5.45E-01	9.96E-01	3.74E-0
L7	280018	28	18	638.5	5298.5	3.99E+00	1.82E+00	3.74E-01	9.99E+00	2.03E-01	7.12E-02	1.64E+01	1.28E+01	1.51E+00	3.51E-01	2.01E+01	1.78E+00	5.76E-01	1.04E+00	3.95E-0
18	290018	29	18	639.5	5298.5	4.33E+00	1.87E+00	3.74E-01	1.00E+01	2.09E-01	7.48E-02	1.69E+01	1.33E+01	1.48E+00	3.51E-01	2.01E+01	1.81E+00	6.04E-01	1.08E+00	4.17E-0
19	300018	30	18	640.5	5298.5	5.53E+00	1.92E+00	3.69E-01	1.00E+01	2.14E-01	7.62E-02	1.81E+01	1.50E+01	1.45E+00	3.46E-01	2.01E+01	1.83E+00	6.16E-01	1.10E+00	4.31E-0
20	310018	31	18	641.5	5298.5	5.55E+00	1.98E+00	3.66E-01	9.92E+00	2.22E-01	7.80E-02	1.81E+01	1.46E+01	1.43E+00	3.44E-01	1.99E+01	1.87E+00	6.31E-01	1.15E+00	4.41E-0
21	320018	32	18	642.5	5298.5	5.33E+00	2.05E+00	3.70E-01	9.66E+00	2.27E-01	8.17E-02	1.77E+01	1.37E+01	1.42E+00	3.48E-01	1.93E+01	1.89E+00	6.61E-01	1.19E+00	4.65E-0
22	330018	33	18	643.5	5298.5	4.98E+00	2.10E+00	3.67E-01	9.38E+00	2.35E-01	8.41E-02	1.72E+01	1.26E+01	1.41E+00	3.44E-01	1.88E+01	1.94E+00	6.79E-01	1.24E+00	4.85E-0
23	340018	34	18	644.5	5298.5	4.63E+00	2.13E+00	3.59E-01	9.18E+00	2.38E-01	8.43E-02	1.66E+01	1.15E+01	1.40E+00	3.37E-01	1.84E+01	1.93E+00	6.82E-01	1.28E+00	4.88E-0
24	350018	35	18	645.5	5298.5	4.31E+00	2.11E+00	3.58E-01	9.02E+00	2.41E-01	8.65E-02	1.61E+01	1.07E+01	1.40E+00	3.36E-01	1.80E+01	1.92E+00	6.99E-01	1.31E+00	5.00E-
5	360018	36	18	646.5	5298.5	4.13E+00	2.07E+00	3.59E-01	8.88E+00	2.36E-01	8.74E-02	1.58E+01	1.01E+01	1.39E+00	3.37E-01	1.77E+01	1.87E+00	7.06E-01	1.28E+00	5.05E-
6	370018	37	18	647.5	5298.5	3.98E+00	2.01E+00	3.56E-01	8.69E+00	2.30E-01	8.64E-02	1.54E+01	9.66E+00	1.38E+00	3.34E-01	1.72E+01	1.80E+00	6.98E-01	1.25E+00	4.98E-
27	380018	38	18	648.5	5298.5	3.86E+00	1.95E+00	3.42E-01	8.48E+00	2.17E-01	8.42E-02	1.49E+01	9.28E+00	1.37E+00	3.21E-01	1.68E+01	1.69E+00	6.81E-01	1.19E+00	4.85E-0
8	390018	39	18	649.5	5298.5	3.77E+00	1.88E+00	3.27E-01	8.29E+00	2.06E-01	8.07E-02	1.46E+01	8.93E+00	1.35E+00	3.08E-01	1.64E+01	1.60E+00	6.52E-01	1.13E+00	4.58E-0
4	► N AliDa	ata_Primary 🦯	Recepto	r_Primary	CAve	(PM10)_Pri	mary Al	Data / S-N	i so2 🖉 so	2graph 🦯	S-N PM10	PM10grap	oh / Rece	otor / CAve	e(SO2) / 0	CAve(PM10)		01511-02	<u> </u>	
lead	ly 🎦																	100% (=)	



6.6 Drawing Concentration Distribution Map

6.6.1 Import to Calculation Result Organization File to Access File

Open "Simulation.mdb" and select [Excel] button of [Import & Link] in [External Data] tab.



After click [Browse], select the calculation result organization file and click [OK].

					Get External Data - Excel Spreadsheet
					Select the source and destination of the data
File Open	KKJ1505 + Simulation + OrganizingData		69 OrganizingDo	ataの検索 P	Specify the source of the data. Bie name: (c:/workloc)1505/smulatonW0rganengDataKeoncentration_2015_2016/6/27_2.xlox Browse
登理・ 新しいフォルタ	7-				 For any more standing and the filler subsequence of the subsection of t
■ デスクトップ ・	名前	更新日時	粮油	サイズ	Specify how and where you want to store the data in the current database.
 ■ 最近表示した場野 ライブラリ ドキュメント ビクテャ ビデオ ミュージック コンピューター 	2015_Narmandakh 2015_2016605.xlsx concentration_2015_2016665.xlsx concentration_2015_2016601.xlsx concentration_2015_20160620.xlsx concentration_2015_20160620.xlsx concentration_2015_20160627_1.xlsx concentration_2015_20160627_2.xlsx	2016/07/01 17:37 2016/06/05 14:12 2016/06/14 19:04 2016/06/21 14:21 2016/06/21 16:02 2016/06/27 11:17 2016/06/27 16:41	ファイル フォル Microsoft Excel Microsoft Excel Microsoft Excel Microsoft Excel Microsoft Excel	1,356 KB 1,352 KB	Import the source data into a new table in the current database. If the specified table does not exist, Access will create L. If the specified table aready exist, Access might overwrite its contents with the imported data. Chooses must be source data will not be reflected in the database. Append a copy of the records to the table: [concentination_hysicalition_2010m_] If the specified table exist, Access will add the records to the table. If the table does not exist. Access will create it. Changes made the source data in table. [concentination_hysicalition_2010m_] If the specified table exist, Access will add the records to the table. If the table does not exist. Access will create it. Changes made to the source data will create it. Changes made to the source data in Excel will be reflected in the database. [Link to the data source by creating a linked table. Access will create a table that will mentain a link to the source data in Excel will be reflected in the level table cores.
Mindows7_05 INFOOX (Wimer File par	me: concentration_2015_20160627_2.vbsx	Tools	Microsoft Excel Open	(*.xls;*.xlsb;*.xls ▼ Cancel	OK Canal

Select result organization sheet, and click [Next] (Here it is "AllData" sheet.).

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mple	e data for	worksheet 's	AllData										
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1	30018	13	18	623.	5	5298.5	3.48E-02	4.77E-01	7.08E-02	1.87E+00	2.27E-02	1.27E-0	_
1	40018	14	18	624.	5	5298.5	4.22E-02	6.60E-01	9.42E-02	2.43E+00	3.15E-02	1.64E-0	
1	50018	15	18	625.	5	5298.5	7.11E-02	1.10E+00	1.35E-01	3.39E+00	4.93E-02	2.42E-0	
	60018	16	18	626.	5	5298.5	8.14E-02	1.29E+00	1,54E-01	3.80E+00	5.79E-02	2.70E-0	
1	70018	17	18	627.		5298.5	9.42E-02		1.72E-01	4.24E+00	6.96E-02	3.02E-0	
		18	18			5298.5	1.69E-01		1.98E-01		8.72E-02	3.46E-0	
	90018	19	18	629.		5298.5	1.90E-01	1.49E+00	2.14E-01	5.13E+00	9.76E-02	3.80E-0	
		20	18			5298.5	1.26E-01		2.21E-01	5.26E+00	9,78E-02	4,02E-0	
	10018	21	18	631.		5298.5	1.29E-01		2.37E-01	5.67E+00	1.03E-01	4.39E-0	
	20018	22	18	632.		5298.5			2.64E-01	6.48E+00	1.17E-01	4.90E-0	
		23	18				2.30E-01		2.95E-01	7.47E+00	1.31E-01	5.35E-0	
310	10010	28	10	601	E	E000 E	E 700 01	1 505.00	9 90E 01	0.002.00	1 592 01	E OFF O	1-

Check [First Row Contains Column Headings] is checked and click [Next].

U	First Ro	w Contains	Column	Headings								
		-								-	-	
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	130018	13	18		5298.5	3.48E-02	4.77E-01	7.08E-02	1.87E+00	2.27E-02	1.27E-0	*
	140018	14	18	624.5	5298.5	4.22E-02	6.60E-01	9.42E=02		3.15E-02	1.64E-0	_
3	150018	15	18	625.5	5298.5	7.11E-02	1.10E+00	1.35E-01	3.39E+00	4.93E-02	2.42E-0	
ŀ	160018	16	18	626.5	5298.5	8.14E-02	1.29E+00	1.54E-01	3.80E+00	5.79E-02	2.70E-0	
5	170018	17	18	627.5	5298.5	9.42E-02	1.39E+00	1.72E-01	4.24E+00	6.96E-02	3.02E-0	
3	180018	18	18	628.5	5298.5	1.69E-01	1.53E+00	1.98E-01	4.82E+00	8.72E-02	3.46E-0	
7	190018	19	18	629.5	5298.5	1.90E-01	1.49E+00	2.14E-01	5.13E+00	9.76E-02	3.80E-0	
3	200018	20	18	630.5	5298.5	1.26E-01	1.32E+00	2.21E-01	5.26E+00	9.78E-02	4.02E-0	
3	210018	21	18	631.5	5298.5	1.29E-01	1.28E+00	2.37E-01	5.67E+00	1.03E-01	4.39E-0	
0	220018	22	18	632.5	5298.5	1.80E-01	1.38E+00	2.64E-01	6.48E+00	1.17E-01	4.90E-0	
1	230018	23	18	633.5	5298.5	2.30E-01	1.44E+00	2.95E-01	7.47E+00	1.31E-01	5.35E-0	
2		24	18	634.5	5298.5	5.75E-01	1.59E+00	3.30E-01	8.36E+00	1.57E-01	5.85E-0	
1	230018 240018	23	18	633.5	5298.5	2.30E-01	1.44E+00	2.95E-01	7.47E+00	1.31E-01	5.35E-0	

Select [Let Access add primary key.] and Click [Next].

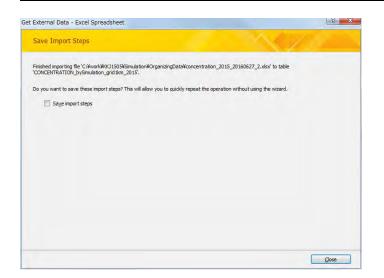
Import Spreadshold Wicani	Import	Spreadsheet Witzen)	(met)
You can epoch unformation about acts in the final you are recording. Select fields in the an information in the Tried Optional area. I read Optional Tesh lingger 2010 Date Type: Double (* I denesit: line *) Drived Type: Double (*)		Microsoft Aucean recommends that you define a parkery key for your new lable. A primary key is used to analyze whether predimension in your table, if allow you is referre and more subthy.	
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Cantal < 0	ing gents gran	Cantal < Quel (jext >) [pr	•

Input the table name in the [Import to Table:] textbox and click [Finish].

(Here it is "CONCENTRATION_bySimulation_grid1km_2015".)



Click [Close].



6.6.2 Drawing Concentration Distribution Map

Open template file, click [File]-[Save As], and saved as other name.

File	Edit	View	Bookmarks	Insert	Sele
B	New	-		Ctrl+N	t
B	Open			Ctrl+0	
	Save			Ctrl+S	4
	Save As				
	Save A	Сору			
	Add Dat	ta			•

Join the table of emission by grid to "SO2 Concentration" layer

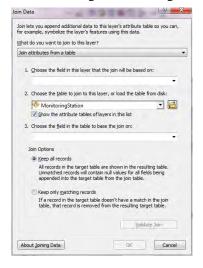
If the table is already a joined table, select [Joins and Relates]-[Remove Join(s)]-[Remove All] and remove the existing join of table.

20111210_StationarySo	Remove Open Attribute Table	0	omize Windows Help]‰ k? =
	Joins and Relates		Join	
🔍 🔍 🖤 🥥 💥 😒 🧄	Zoom To Layer		Remove Join(s)	CONCENTRATION_bySimulation_2011
able Of Contents	Zoom To Make Visible		Relate	Remove All Joins
	Visible Scale Range		Remove Relate(s)	
🛛 🥌 Country	Use Symbol Levels			
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District Bounda	Data	+		
🖃 🗹 SO2 Concentrat 🧇	Save As Layer File			
Conc	Create Layer Package			
4.230001 - 14	Properties		and the second second	

Right-click "SO2 Concentration" layer and select [Joins and Relates]-[Join].

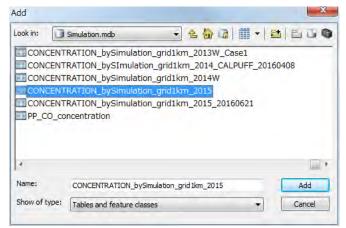
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Table Of Contents	80	Zoom To Layer Zoom To Make Visible Visible Scale Range		Re	move Join(s) late move Relate(s)	•
☐ Sountry ☐ MonitoringStatic		Use Symbol Levels Selection	•			
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SO2 Concentrati		Save As Layer File Create Layer Package				
	r	Properties]		

When showing the following dialog, click is button.



Select the table of emission by grid to join and click [Add].

(Here it is "CONCENTRATION_bySimulation_grid1km_2015" table)



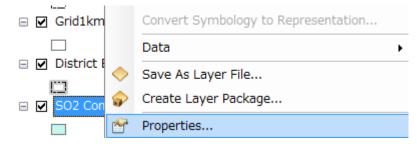
Show the selected table in the dropdown textbox of "2.". When clicking the dropdown button of "1." and selecting "IXIY", show "IXIY" in "3." automatically. After then, click [OK].

hat	do you want to join to this layer?
-	attributes from a table
-	
1.	Choose the field in this layer that the join will be based on:
	IXIY
	OBJECTID_1
2.	Column_
	Row MinX
	MinX
	MaxX
	MaxY
	CentreX
3.	CentreY
	Z_SRTM TXTY
	Shape Length
3	Shape_Area
	Keep all records
	All records in the target table are shown in the resulting table. Unmatched records will contain null values for all fields being appended into the target table from the join table.
	C Keep only matching records
	If a record in the target table doesn't have a match in the join table, that record is removed from the resulting target table.

If the following dialog may be shown, click [No].



Right-click "SO2 Concentration" layer and click [Properties].



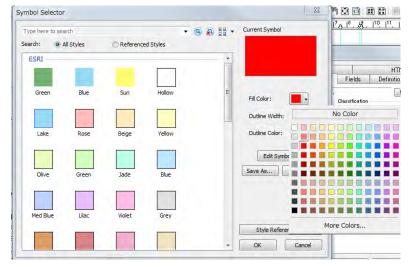
Click [Symbology] tab and select [Quantities]-[Graduated colors]. Click and select the target column name at the drop down button of [Value] (Here it is [Total_SO2].).

	Joins	& Relates			Time			HTML Popup	_
General So	urce	Selection		Display	Symbology		Fields	Definition Query	Labels
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Select the color pattern in [Color Ramp] to use for the distribution map. Click the value in [Range] and input the upper limit value of rank.

Symbol	Range	Label	
	10.000000	2.491287 - 10.000000	
	10.000001 - 20.000000	10.000001 - 20.000000	
	20.000001 - 30.000000	20.000001 - 30.000000	
	30,000001 - 50,000000	30,000001 - 50,000000	
	50,000001 - 100,000000	50.000001 - 1.00.000000	

When double-clicking color in [Symbol] column, since the following dialog is shown, select color.



The results of selecting rank and color are as follows.

	Joir	ns & Relates	-		Time		-		HTML Popup	
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ihow: Features Dategories Quantities Unantities Graduated Proportio Dot densi Gharts Multiple Att	l symbols nal symbols ty	100 200 300	Total_SO2 none se 1287 - 10.0 00001 - 20 00001 - 30 00001 - 50 00001 - 10	000000 000000 000000 000000 000000	0	• La 2.4 10 20 30	Diessific Diesses: abel 191287 - 1 000001 - 000001 - 000001 -	Manut 5 -	Olessify	

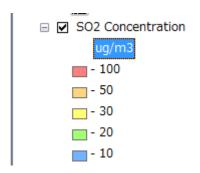
When click [Reverse Sorting] after you right-click on the [Range] column, the display order of rank changes.

Symbol	Range	Label
	2491287 - 10.009 10.000001 - 20.0 20.000001 - 30.0 30.000001 - 50.0 50.000001 - 100	Flip Symbols Ramp Colors Properties for Selected Symbol(s) Properties for All Symbols
Show c	lass ranges using f	Reverse Sorting Remove Class(es) Combine Classes Format Labels Edit Description

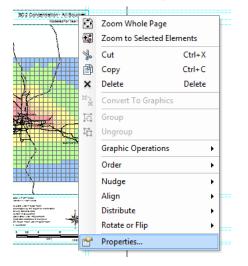
Input label to display in legend by rank. When all setting completed, click [OK].

	Join	ns & Relates		Time		HTML Popup			
General	Source	Selection	Display	Symbology	Fields	Definition Query	Labels		
how Features Datepories Graduated Graduated Proportion Dot density Multiple Attr	symbols al symbols /	Fields Value: Normalization: Dolor Ramp: Symbol Ram 3000 2000 2000 2000 2000 2000 2000	Total_SO2 none	0 - 50 0 - 30 0 - 20 - 10	Classification Classes: 5 pel 00 0	Import Manual Classify			

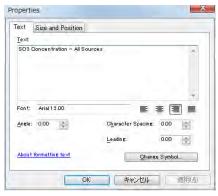
Click "Total_SO2" of "SO2 Concentration" layer and make it editable and change to "ug/m3".



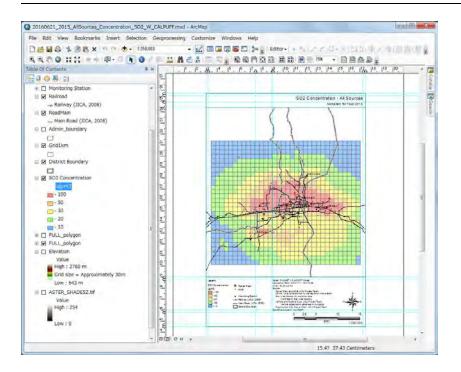
Change the title of this map. Move the cursor to the textbox of title, right-click it, and click [Properties].



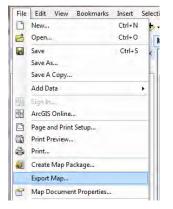
Input a title in [Text] (Here it is "SO2 Concentration – All Sources".).



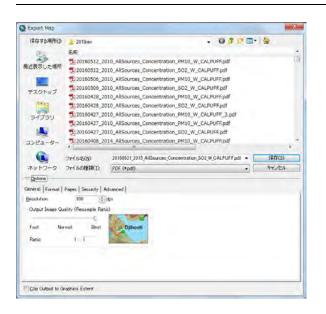
Complete drawing the concentration distribution map by ArcGIS.



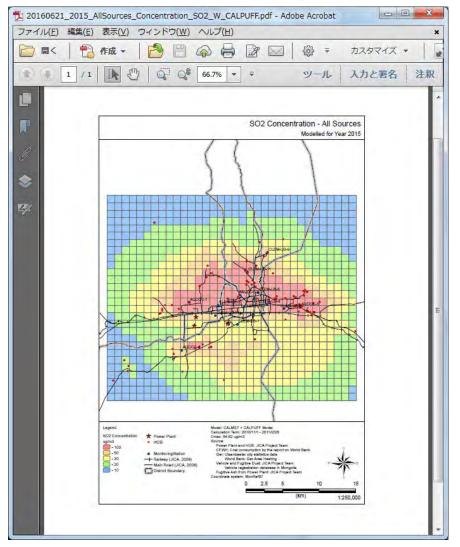
To export the distribution map to PDF file, click [File]-[Export Map].



Setting the destination and file name and click [Save].



Create the PDF file of concentration distribution map.



7 <u>Method of Estimating the Emission of PM10 Considering</u> Condensed Dust and Conducting Dispersion Simulation

7.1 Background

Among the various pollutants, the only PM concentration measured at the measuring station was significantly higher than the calculated concentration using the previous dispersion simulation model. Various causes were thought such as error of the equipment of the measuring station, error of the emission factor, and contribution of generating the secondary particle, so in order to make it clear, the dust in the air was collected using the FRM sampler and component analysis of the collected dust was also conducted. As a result, it was shown that POM (Particulate Organic Matter) and sulfate are major source factor in the dust collected in winter and the main source is volatile organic matter due to fuel combustion (Figure 7.1-1). From these results, it is thought that these sources are greatly affected by condensed dust.

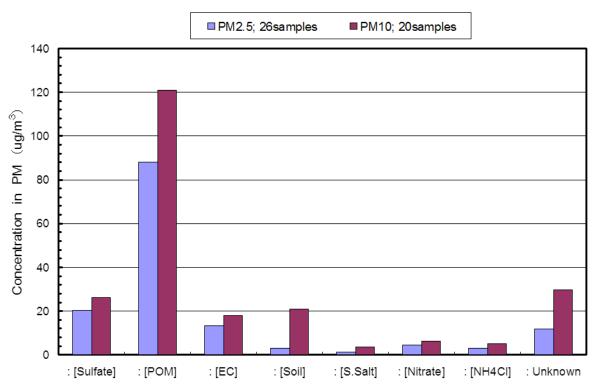


Figure 7.1-1 Comparing the origin source concentration in PM10 and PM2.5 sample from Dec.15,'14 to Jan.06,'15

In addition, Dr. Mizohata attempted PMF (Positive Matrix Factorization) analysis using the seasonal PM chemical composition analysis data obtained by previous observations and announced the obtained results at the seminar in February 2016. The number of source factors was unknown, but as a result of trial and error for 4 to 8 factors, source profiles consisting of 7 source factors and their contribution concentrations were finally derived.

7.2 Calculation Method of the Emission Considering Condensed Dust

7.2.1 Outline of PM10 Generating Process

The image of generating processes of PM10 is shown in Figure 7.2-1. The generating processes of PM10 consist of the following three processes.

1. Generating Process of Primary Particle

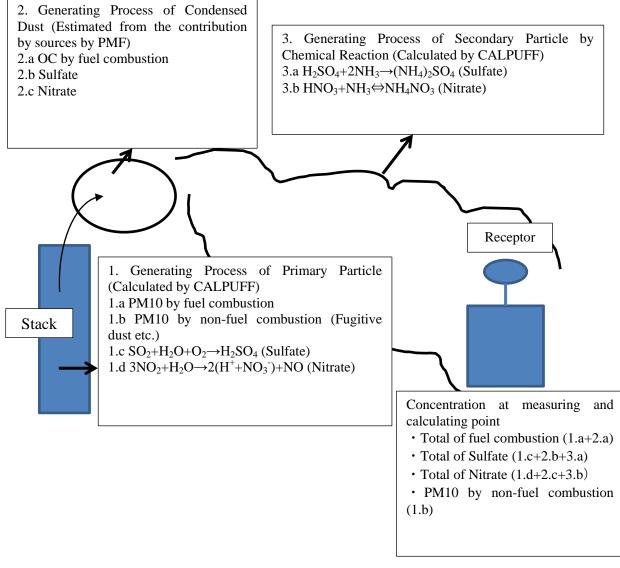
Primary particles are generated by fuel combustion or fugitive dust. The particle generated through condensation of product in the process of moisture in the stack gas reacting with SO2 or NO2 is also included as the primary particle.

2. Generating Process of Condensed Dust

Condensed Dust is produced through gas or liquid (volatile matter or vapor etc.) in the stack is condensed into particles by rapid cooling and/or mixing in the air after the stack gas is emitted.

3. Generating Process of Secondary Particle by Chemical Reaction

Secondary particles are generated by chemical reaction in the air after the stack gas is emitted.



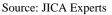


Figure 7.2-1 Image of Generating Process of PM10

7.2.2 Estimation Method of the Emission of PM10 Considering Condensed Dust

The calculation of PM10 emission can only be done by using emission factor from the result of flue gas measurement and monitoring survey described previously in 1.a and 1.b. Also in CALPUFF, generating process for condensed dust is not considered in. Therefore, to estimate PM10 emission considering the condensed dust, the PM10 emission estimation method by the process of 1.c, 1.d, and 2.a to 2.c is set as following.

1. PM10 emission calculated by using emission factor from the result of flue gas measurement and monitoring survey (1.a, 1.b)

PM10 emission by source was calculated by multiplying activity data such as coal consumption to emission factor based on the result of flue gas measurement and monitoring survey.

2. Process of gas condensation and become particles in the stack (1.c, 1.d)

PM10 emission generated by chemical reaction from SO2 to SO4 (1.c) and from NO2 to NO3 (1.d) in stack were calculated.

Conversion ratio of reaction from SO2 to SO4 in stack was set as 5.0^{11} , SO2 and SO4 emission were estimated by the following formulas

SO4 Emission after reaction = SO2 Emission of emission inventory * 5/100 * 98/64

SO2 Emission after reaction = SO2 Emission of emission inventory *(1-5/100)

Also, NO3 emission included in PM10 was estimated using the NO3 ratio by the component analysis of the sample taken from sources (Table 7.2-1). These calculation results were added to PM10 concentration.

NO3 Emission = PM10 Emission * NO3 Ratio of each source / 100

Source	Ratio (%)
Power plant	0.07
НОВ	0.18
CFWH	0.04
Small stove for household	0.08
Vehicle exhaust gas	0.00

Source: JICA Experts

3. Generating process of condensed dust (2.a~2.c)

To estimate the emission of each source with consideration of generating process for the condensed dust, 1) the calculated concentration with consider ratio of generating process of primary and secondary particle, 2) average concentration of PM10at monitoring station, and 3) the PM10 contribution ratio of each source estimated by PMF were utilized.

When calculated concentration with consideration of generating process of primary and secondary particle is set as C1, PM10 average concentration at monitoring station is set as C_{AQ} , and the PM10 contribution ratio of

¹¹ Prediction Manual of SPM Committee of SPM Control Measure 1997 (in Japanese)

each source estimated by PMF is set as A, Cs that is PM10 average concentration of each source at monitoring station and R, the ratio to estimate the emission considered generating process for condensed dust are calculated by the following formula. PM10 emission considering the condensed dust was estimated by multiplying R to PM10 emission of emission inventory every source (Figure 7.2-2 and Figure 7.2-3).

$$C_{S} = C_{AQ} \times A/100$$
$$R = C_{S}/C_{1}$$

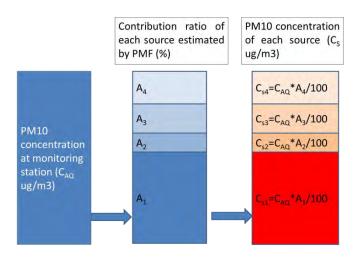
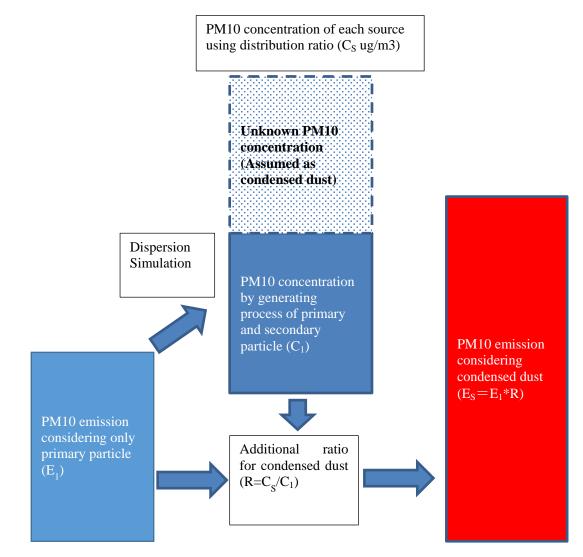


Figure 7.2-2 Estimation Image of PM10 Concentration of Each Source at Monitoring Stations using the result of PMF



Source: JICA Experts

Figure 7.2-3 Estimation Image of PM10 Emission Considering Condensed Dust

For PM10 contribution ratio of each source estimated by PMF in winter, Dr. Mizohata presented the ratio in the seminar on February 2, 2016, as shown in Table 7.2-3. The emission Es (the emission virtually added condensed dust) was estimated by multiplying E_1 (emission of each sources in emission inventory) to R.

In 7 source factors in Table 7.2-2, since LF7-3 and LF7-7 are particle matters and do not generate condensed dust, and the contributions of LF7-2 and LF7-3 are low, these source factors are excluded from the source of condensed dust. Regarding LF7-2, UB city does not have refuse incineration and general waste is burned in the open air. On the other hand, LF7-2 may include tire combustion in ger stove, but further discussion of this cause is needed.

JICA Experts pointed out that there are many buildings under construction and the contribution of cement composition may enlarge, however, since the contribution is low (1.6%), this source factor is also excluded from the source of condensed dust.

According to these reason, the sources of condensed dust are set to coal combustion, vehicle exhaust gas, sulfate, and nitrate.

Source Factor by PMF	Concentration				
	ug/m3	%			
LF7-4: Motor Vehicle	30.3	13.1			
LF7-1: Coal Combustion	146.3	63.6			
LF7-2: Refuse Incineration	3.6	1.6			
LF7-3: Cement	3.4	1.5			
LF7-7: Crustal	20.6	9.0			
LF7-5: Sulfate	10.9	4.8			
LF7-6: Nitrate	15.2	6.6			
Total	230.3	100.0			

 Table 7.2-2
 Concentration and Ratio of Each Source Factor Estimated by PMF

Source: JICA Experts

Sum of ratio do not become the Total values because each value is rounded at the first decimal place.

	Coal Combusti on	Vehicle Exhaust Gas	Crustal	Sulfate	Nitrate	Refuse Incinerati on	Cement
$\begin{array}{c} Averaged & PM10 \\ Concentration at monitoring \\ station (C_{AQ}) \end{array}$				161.34			
PM10 distribution ratio of source estimated by PMF (A, %)	63.60	13.10	9.00	4.80	6.60	1.60	1.50
PM10 concentration of each source (Cs=C _{AQ} *A/100, ug/m3)	102.61	21.14	14.52	7.74	10.65	2.58	2.42
Concentration by CALPUFF (C1, ug/m3)	58.51	2.23	31.81	5.15	2.81		
R=Cs/C1	1.754	9.469		1.503	3.791		

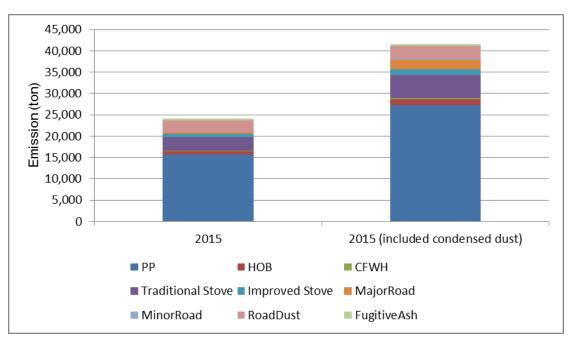
Source: JICA Experts

The condensed dust with considering PM10 emission is shown in Table 7.2-4, Figure 7.2-4, and Figure 7.2-5.

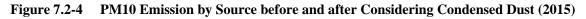
		v			0		· · /	
	PM	I10	SC	04	N	03	То	tal
	Before	After	Before	After	Before	After	Before	After
PP	14,786.62	25,935.72	908.98	1,366.19	10.35	39.24	15,705.94	27,341.15
НОВ	623.25	1,093.18	114.75	172.48	1.12	4.25	739.13	1,269.91
CFWH	145.10	254.51	23.03	34.62	0.06	0.22	168.19	289.34
Smallstoveforhousehold(Traditional stove)	3,007.86	5,275.78	104.01	156.32	2.41	9.12	3,114.27	5,441.23
Smallstoveforhousehold(Improved stove)	629.17	1,103.57	142.89	214.76	0.50	1.91	772.56	1,320.23
Vehicle exhaust gas (Major road)	235.04	2,225.56	22.54	33.87	0.00	0.00	257.57	2,259.43
Vehicle exhaust gas (Minor road)	36.72	347.72	3.52	5.29	0.00	0.00	40.24	353.01
Fugitive dust from road	2,860.51	2,860.51					2,860.51	2,860.51
Fugitive ash from ash pond in PPs	409.64	409.64					409.64	409.64
Total	22,733.90	39,506.18	1,319.71	1,983.53	14.44	54.74	24,068.05	41,544.44

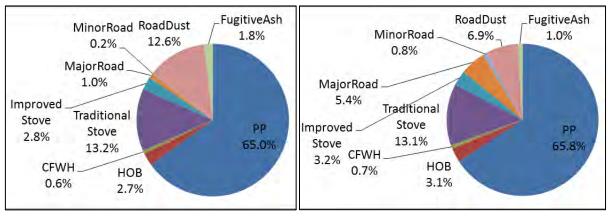
 Table 7.2-4
 Emission by Source before and after Considering Condensed Dust (2015)

Unit: ton Source: JICA Experts

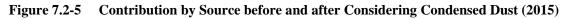


Source: JICA Experts





Source: JICA Experts



7.3 Estimation Method of PM10 Concentration

Flow diagram of dispersion simulation by using the emission considering condensed dust is shown inFigure 7.3 1.

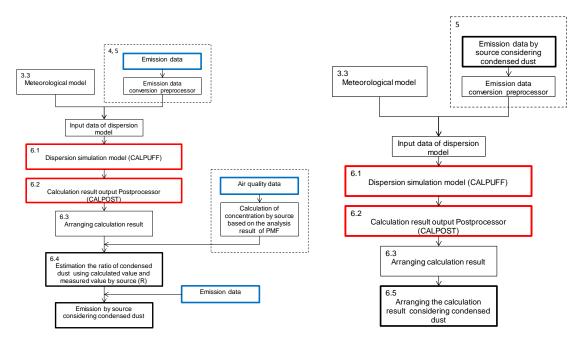


Figure 7.3-1 Flow diagram of dispersion simulation by using the emission considering condensed dust

1. Generating Process of Primary Particle Considering Condensed Dust (1.a to 1.d and 2.a to 2.c)

Based on the above, the dispersion simulation of CALPUFF was conducted using the emission with consideration of generating process for condensed dust as input data. On this occasion, concentrations calculated from SO4 and NO3 emission in generating process of primary particle were added to PM10 concentration (Figure 7.3-2).

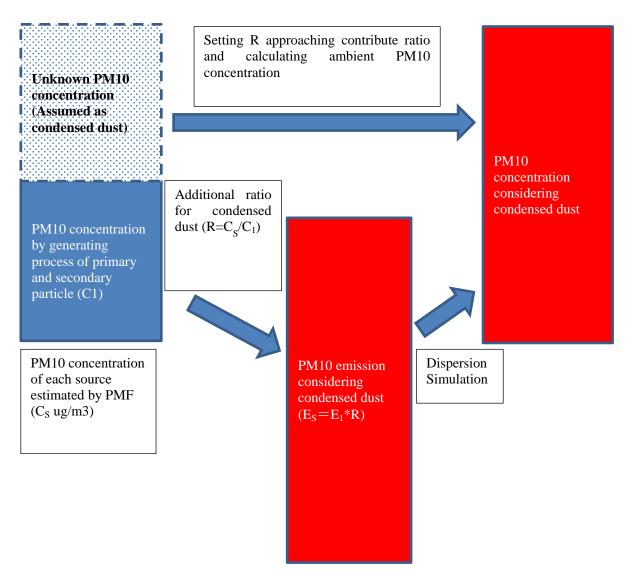


Figure 7.3-2 Estimation Image of PM10 Concentration Considered Condensed Dust

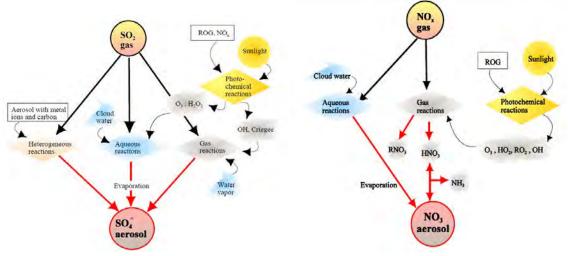
2. Generating Process of Secondary Particle by Chemical Reaction (3.a~3.b)

A pseudo-first-order chemical reaction model is applied as a chemical reaction model of CALPUFF. This chemical model considers the following generating process from SO2 to SO4, and from NOx to NO3 and HNO3.

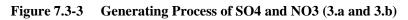
After reactant SO2 is emitted into the air, SO4 ion is generated by the reaction to moisture, ozone and hydrogen peroxide etc. in the air, and product particle of ammonium sulfate is produced by reaction of SO4 ion and ammonia.

After reactant NOx is emitted to the air, NOx reacts in two different processes. The first process is NO3 generating process by the reaction between NOx and moisture in the air. The second process is ammonium nitrate generating process by the reaction between ammonia and the nitric acid gas to be generated by the reaction to OH radical and so on by ozone or the photochemical reaction. Besides, since this reaction is a reversible reaction depending on temperature and relative humidity, nitric acid gas and ammonium nitrate are in the equilibrium state.

The image of each generating process is shown in Figure 7.3-3. SO4, NO3 and HNO3 concentration were calculated by CALPFF dispersion simulation using SO2 and NOx emission as input data, and were added to PM10 concentration.



Source: A User's Guide for the CALPUFF Dispersion Model (Ver 5)



7.3.1 Converting to the Source Input Format for CALPUFF

Copy excel file created in Chapter 5 and save as new file. Open saved file and cancel the filtering function.

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4	70027	7	2	7 617000	5307000	0.06765	0.06426	0.00518	0.01617	0.13836	0.08993	7.2E-05	1.19593		
5	70028	7	2	8 617000	5308000	0.72186	0.68576	0.05527	0.17251	1.47642	0.95967	0.00077	12.7618		
6	80025	8	2	5 618000	5305000	0.68444	0.65021	0.0524	0.16357	1.39989	0.90993	0.00073	12.1003		
7	80026	8	2	6 618000	5306000	1.40096	1.33091	0.10726	0.33481	2.8654	1.86251	0.00149	24.7678		
8	80027	8	2	7 618000	5307000	2.25095	2.1384	0.17234	0.53795	4.60389	2.99253	0.00239	39.7949		
9	80028	8	2	8 618000	5308000	0.3026	0.28747	0.02317	0.07232	0.61891	0.40229	0.00032	5.34972		
10	90013	9	1	3 619000	5293000	0.10863	0.1032	0.00832	0.02625	0.21095	0.13712	0.00011	1.87947		
11	90026	9	2	6 619000	5306000	18.7668	17.8285	1.43683	5.00217	52.3754	34.0451	0.02724	417.398		
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14	100013	10	1	3 620000	5293000	1.96901	1.87055	0.15075	0.47576	3.8235	2.48528	0.00199	34.0653		

Update the formula to calculate SO4 and NO3 emission. This update is reflected to all rows.

SO4 Emission = SO2 Emission x conversion ratio from SO2 to SO4 x 96/64 x Additional ratio of condensed dust (R)

NO3 Emission =PM10 Emission x NO3 contribution ratio by composition analysis of PM10 x Additional ratio of condensed dust (R)

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3	70026	7	26	617000	5306000	0.31098	0.29544	0.02381	0.07432	0.63606	0.41344	0.00033	5.49795		
4	70027	7	27	617000	5307000	0.06765	0.06426	0.00518	0.01617	0.13836	0.08993	7.2E-05	1.19593		
5	70028	7	28	617000	5308000	0.72186	0.68576	0.05527	0.17251	1.47642	0.95967	0.00077	12.7618		
5	80025	8	25	618000	5305000	0.68444	0.65021	0.0524	0.16357	1.39989	0.90993	0.00073	12.1003		
7	80026	8	26	618000	5306000	1.40096	1.33091	0.10726	0.33481	2.8654	1.86251	0.00149	24.7678		
8	80027	8	27	618000	5307000	2.25095	2.1384	0.17234	0.53795	4.60389	2.99253	0.00239	39.7949		
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.0 Fil 1 2 3 4 5	90013 Home STDEV.S A IXIY 70025 70026 70027	9	13 Page Layout ★ ✔ fx C Row 25 26 27	Formulas =K2*0.08/100 MinX 617000 617000 617000 617000	GerEm Data 0*3.791 E MinY 5305000 5306000 5307000	isByKhoroo_20 Review V F TPY_SO2 0.43347 0.31098 0.06765	015_ByGrid_Co iew Devel G SO2_corr 0.4118 0.29544 0.06426	ndensedDust. oper Acro H SO4 0.04988 0.03579 0.00778	dsx - Microso bat Team I TPY_NOx 0.10359 0.07432 0.01617	J TPY_TSP 0.88659 0.63606 0.13836	K TPY_PM10 0.57628 0.41344 0.08993	L NO3 =K2*0.08/ 0.00033 7.2E-05	M TPY_CO 100*3.791 5.49795 1.19593	♥ 🕜 🗆	
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Add one column at the right of Dust (or TSP) and PM10 column. This calculation result is reflected to all rows. TSP Emission = TSP Emission x Additional ratio of condensed dust (R)

PM10 Emission = PM10 Emission x Additional ratio of condensed dust (R)

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	А	В	С	D	E	F	G	Н	I.	J	К	L	М	N	0	Р
1	IXIY	Column_	Row	MinX	MinY	TPY_SO2	SO2_corr	SO4	TPY_NOx	TPY_TSP	TSP_corr	TPY_PM1	PM10_cor	NO3	TPY_CO	
2	70025	7	25	617000	5305000	0.43347	0.4118	0.04988	0.10359	0.88659	= <mark>J2</mark> *1.754			0.00175	7.66343	
	70026	7	26	617000	5306000	0.31098	0.29544	0.03579	0.07432	0.63606		0.41344		0.00125	5.49795	
	70027	7	27	617000	5307000	0.06765	0.06426	0.00778	0.01617	0.13836		0.08993		0.00027	1.19593	
	70028	7	28	617000	5308000	0.72186	0.68576	0.08307	0.17251	1.47642		0.95967		0.00291	12.7618	
	80025	8	25	618000	5305000	0.68444	0.65021	0.07876	0.16357	1.39989		0.90993		0.00276	12.1003	
	80026	8	26	618000	5306000	1.40096	1.33091	0.16121	0.33481	2.8654		1.86251		0.00565	24.7678	
	80027	8	27	618000	5307000	2.25095	2.1384	0.25902	0.53795	4.60389		2.99253		0.00908	39.7949	
	80028	8	28	618000	5308000	0.3026	0.28747	0.03482	0.07232	0.61891		0.40229		0.00122	5.34972	
	90013	9	13	619000	5293000	0.10863 GerEmisE	0.1032 ByKhoroo_2015	0.0125 5_ByGrid_Cond	0.02625	0.21095 × - Microsoft	Excel	0.13712		0.00042	1.87947	
	a ") • (* •	-	Page Layout	619000 Formulas =L2*1.754		GerEmisE	1	5_ByGrid_Cond	lensedDust.xls		Excel	0.13712		0.00042		
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(Home STDEV.S	Insert	Page Layout ★ ✔ ƒx C Row	Formulas =L2*1.754 D MinX	Data E MinY	GerEmisE Review V F TPY_SO2	ByKhoroo_2015 iew Devel G SO2_corr	5_ByGrid_Conc oper Acro H SO4	lensedDust.xlsp bat Team I TPY_NOx	x - Microsoft J TPY_TSP	K TSP_corr	L TPY_PM10	PM10_cor	N NO3	© 0 TPY_C0	3 - 6
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	A Home STDEV.S 70025 70026 70027 70028 80025 80026	▼ Insert ▼ B Column_ 7 7 7 7 7 8 8 8	Page Layout × ✓ fx C Row 25 26 27 28 25 26 25 26	Formulas =L2*1.754 D MinX 617000 617000 617000 617000 618000 618000	Data E MinY 5305000 5306000 5307000 5308000 5305000 5306000	GerEmisE Review V F TPY_SO2 0.43347 0.31098 0.06765 0.72186 0.68444 1.40096	ByKhoroo_2015 iew Devel SO2_corr 0.4118 0.29544 0.06426 0.68576 0.65021 1.33091	ByGrid_Conc oper Acro H SO4 0.04988 0.03579 0.00778 0.08307 0.07876 0.16121	I TPY_NOX 0.10359 0.07432 0.01617 0.17251 0.16357 0.33481	J TPY_TSP 0.88659 0.63606 0.13836 1.47642 1.39989 2.8654	K TSP_corr 1.55507 1.11565 0.24268 2.58964 2.4554 5.02592	L TPY_PM1(0.57628 0.41344 0.08993 0.95967 0.90993 1.86251	PM10_cor	N NO3 0.00125 0.00027 0.00291 0.00276 0.00565	0 TPY_C0 7.66343 5.49795 1.19593 12.7618 12.1003 24.7678	3 - 6
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44	130019	13	19	623000	5299000	0.03413	0.03242	0.00393	0.00843	0.06081	0.10666	0.03953	0.06933	0.00012	0.57226		
45	130020	13	20	623000	5300000	3.50941	3.33394	0.40384	0.86703	6.25358	10.9688	4.06483	7.12971	0.01233	58.8499		
46	130021	13	21	623000	5301000	0.6681	0.63469	0.07688	0.16506	1.19052	2.08816	0.77384	1.35731	0.00235	11.2035		
47	130027	13	27	623000	5307000	0.19457	0.18484	0.02239	0.0465	0.39795	0.69801	0.25867	0.45371	0.00078	3.43982		
48	130028	13	28	623000	5308000	0.46816	0.44476	0.05387	0.11188	0.95754	1.67953	0.6224	1.09169	0.00189	8.27674		
54	140020	14	20	624000	5300000	2.41406	2.29336	0.27779	0.59642	4.30173	7.54524	2.79613	4.9044	0.00848	40.4819		
55	140021	14	21	624000	5301000	4.12818	3.92177	0.47504	1.01991	7.3562	12.9028	4.78153	8.3868	0.0145	69.2263		
56	140022	14	22	624000	5302000	0.53858	0.51165	0.06198	0.13306	0.95972	1.68335	0.62382	1.09418	0.00189	9.03157		
57	140024	14	24	624000	5304000	1.13164	1.07506	0.13022	0.27958	2.01653	3.53699	1.31074	2.29904	0.00398	18.9767		
58	140025	14	25	624000	5305000	0.00231	0.0022	0.00027	0.00057	0.00412	0.00723	0.00268	0.0047	8.1E-06	0.03878		
59	140033	14	33	624000	5313000	0.87453	0.83081	0.10064	0.23733	1.81999	3.19226	1.18303	2.07503	0.00359	16.7232		

Add the filtering function and specify the range of coordinate values of X and Y.

Add one column at the right of Dust (or TSP) and PM10 column in "13b", "14b", and "15b" sheet.

	a 🔊 • (° -	-				GerEmisE	yKhoroo_2015	_ByGrid_Cond	lensedDust.xls	x - Microsoft	Excel					
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	Α	G	H	- I	J	K	L	M	N	0	Р	Q	R	S	Т	
1	IXIY	MinY	GridX	GridY	Altitude	TPY_SO2	SO2_corr	SO4	TPY_NOx	TPY_TSP	TSP_corr	TPY_PM10	PM10_cor	NO3	TPY_CO	=
2	130019	5299000	623	5299	1234	0.03413	0.03242	0.00261	0.00843	0.06081		0.03953		3.2E-05	0.57226	1 ! SRCN/
3	130020	5300000	623	5300	1480	3.50941	3.33394	0.26869	0.86703	6.25358		4.06483		0.00325	58.8499	2 ! SRCN/
4	130021	5301000	623	5301	1234	0.6681	0.63469	0.05115	0.16506	1.19052		0.77384		0.00062	11.2035	3 ! SRCN/
5	130027	5307000	623	5307	1292	0.19457	0.18484	0.0149	0.0465	0.39795		0.25867		0.00021	3.43982	4 ! SRCN/
6	130028	5308000	623	5308	1332	0.46816	0.44476	0.03584	0.11188	0.95754		0.6224		0.0005	8.27674	5 ! SRCN/
7	140020	5300000	624	5300	1584.5	2.41406	2.29336	0.18483	0.59642	4.30173		2.79613		0.00224	40.4819	6 ! SRCN/
8	140021	5301000	624	5301	1245	4.12818	3.92177	0.31606	1.01991	7.3562		4.78153		0.00383	69.2263	7 ! SRCN/
9	140022	5302000	624	5302	1238.7	0.53858	0.51165	0.04124	0.13306	0.95972		0.62382		0.0005	9.03157	8 ! SRCN/
10	140024	5304000	624	5304	1382	1.13164	1.07506	0.08664	0.27958	2.01653		1.31074		0.00105	18.9767	9 ! SRCN/

Copy the value of emissions from the above calculation sheets and paste them the relevant part of "13b", "14b", and "15b" in CALPUFF input file.

Capacity Development Project for Air Pollution Control in Ulaanbaatar City Phase 2 Mongolia Technical Manual 08 Manual for Conducting and Updating of Dispersion Simulation

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1	IXIY 👻	Column 🚽	Row 💌	MinX 🖵	MinY 🖵	TPY_SO 👻	SO2_co 👻	SO4 👻	TPY_NO -	TPY_TSF -	TSP_cor -	TPY_PN -	PM10_(-	NO3 🔽	TPY_CO -	
507	420029	42	29	652000	5309000	1.94661	1.84928	0.224	0.45559	4.21446	7.39217	2.7394	4.80491	0.00831	35.1221	
508	420030	42	30	652000	5310000	13.8444	13.1522	1.59313	3.24022	29.9736	52.5737	19.4828	34.1729	0.05909	249.791	
509	420031	42	31	652000	5311000	19.0562	18.1034	2.19286	4.45999	41.2571	72.365	26.8171	47.0372	0.08133	343.825	
510	420032	42	32	652000	5312000	1.76151	1.67343	0.2027	0.41227	3.81371	6.68924	2.47891	4.34801	0.00752	31.7823	
511	430030	43	30	653000	5310000	0.99476	0.94502	0.11447	0.23305	2.14689	3.76564	1.39548	2.44767	0.00423	17.9256	
512	430031	43	31	653000	5311000	7.24417	6.88196	0.83361	2.05218	5.18421	9.0931	3.36973	5.91051	0.01022	95.7997	
513	430032	43	32	653000	5312000	1.21939	1.15842	0.14032	0.3536	0.63245	1.10931	0.41109	0.72105	0.00125	15.3272	
514	440027	44	27	654000	5307000	1.7766	1.68777	0.20444	0.42808	3.48491	6.11254	2.26519	3.97315	0.00687	30.8529	
515	440028	44	28	654000	5308000	3.56841	3.38999	0.41063	0.85983	6.99968	12.2774	4.54979	7.98034	0.0138	61.9702	
212	110020															
515	440031	44	31		5311000	7.72061	7.33458	0.88844	2.23882	4.00434	7.02361	2.60282	4.56535	0.00789	97.0445	
516			31		5311000					4.00434 × - Microsoft		2.60282	4.56535	0.00789		. D X
516	440031		31 Page Layout			GerEmisE		_ByGrid_Cond	lensedDust.xls			2.60282	4.56535	0.00789		· □ ×
516 🕅	440031	· -	Page Layout	654000	Data	GerEmisE	yKhoroo_2015	_ByGrid_Cond	lensedDust.xls			2.60282	4.56535	0.00789		
516 🕅	440031	r ↓ Insert	Page Layout	654000 Formulas	Data	GerEmisE	yKhoroo_2015	_ByGrid_Cond	lensedDust.xls			2.60282	4.56535	0.00789		
516 🕅	440031	r ↓ Insert	Page Layout	654000 Formulas	Data	GerEmisE	yKhoroo_2015	_ByGrid_Cond	lensedDust.xls			2.60282 Q	4.56535 R	0.00789 S		
516	440031 Home K2 A IXIY	r ↓ Insert ▼ (G MinY	Page Layout	654000 Formulas 0.0341255613 I GridY	Data 1728872 J	GerEmisE Review V K TPY_SO2	ByKhoroo_2015 iew Devel L SO2_corr	_ByGrid_Conc oper Acro M SO4	lensedDust.xls bat Team	x - Microsoft	Excel	Q	R PM10_cor	S NO3	T TPY_CO	
516	440031 47 • (* • Home K2 A IXIY 420029	₹ Insert ▼ (* G MinY 5309000	Page Layout fr d H GridX 652	654000 Formulas 0.034125561: I GridY 5309	Data 1728872 J	GerEmisE Review V K TPY_SO2 1.94661	kyKhoroo_2015 iew Devel L SO2_corr 1.84928	_ByGrid_Conc oper Acro M SO4 0.224	lensedDust.xls bat Team N	 Microsoft O TPY_TSP 4.21446 	P TSP_corr 7.39217	Q TPY_PM10 2.7394	R PM10_cor 4.80491	S NO3 0.00831	▼ ▼ T TPY_CO 35.1221	386 ! SRC
516	440031 440031 Home K2 A IXIY 420029 420030	₹ Insert	Page Layout free of H GridX 652 652	654000 Formulas 0.034125561: I GridY 5309 5310	Data 1728872 J Altitude 1313 1325	GerEmisE Review V K TPY_SO2 1.94661	ByKhoroo_2015 iew Devel L SO2_corr	_ByGrid_Conc oper Acro M SO4 0.224	lensedDust.xls: bat Team N TPY_NOx	O TPY_TSP 4.21446	Excel P TSP_corr	Q TPY_PM10 2.7394 19.4828	R PM10_cor	S NO3 0.00831 0.05909	▼ ▼ T TPY_CO 35.1221	3 □ □ Σ
516	440031 440031 Home K2 A IXIY 420029 420030 420031	G MinY 5309000 5311000	Page Layout fr d GridX 652 652 652	654000 Formulas 0.034125561: GridY 5309 5310 5311	Data 1728872 J Altitude 1313	GerEmisE Review V K TPY_SO2 1.94661 13.8444	kyKhoroo_2015 iew Devel L SO2_corr 1.84928	ByGrid_Conc oper Acro M SO4 0.224 1.59313 2.19286	lensedDust.xls bat Team N TPY_NOx 0.45559	 Microsoft O TPY_TSP 4.21446 	P TSP_corr 7.39217	Q TPY_PM10 2.7394	R PM10_cor 4.80491	S NO3 0.00831	▼ T TPY_CO 35.1221 249.791	386 ! SRC
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516	440031 40031 Home K2 A IXIY 420029 420030 420031 420032	G MinY 5309000 5311000	Page Layout fr d GridX 652 652 652	654000 Formulas 0.0341255613 GridY 5309 5310 5311 5312 5310	Data 1728872 J Altitude 1313 1325 1422.5	GerEmisE Review V K TPY_SO2 1.94661 13.8444 19.0562	kyKhoroo_2015 iew Devel 502_corr 1.84928 13.1522 18.1034 1.67343	ByGrid_Conc oper Acro M SO4 0.224 1.59313 2.19286	lensedDust.xls bat Team N TPY_NOx 0.45559 3.24022 4.45999	0 TPY_TSP 4.21446 29.9736 41.2571	P TSP_corr 7.39217 52.5737 72.365	Q TPY_PM10 2.7394 19.4828 26.8171	R PM10_cor 4.80491 34.1729 47.0372	S NO3 0.00831 0.05909 0.08133	T TPY_CO 35.1221 249.791 343.825 31.7823	 ? □ □ 2 386 ! SRC 387 ! SRC 388 ! SRC
516	440031 40031 Home K2 A IXIY 420029 420030 420031 420032	G MinY 5309000 5310000 5311000 5312000 5310000	Page Layout fr d GridX 652 652 652 652 652	654000 Formulas 0.034125561: GridY 5309 5310 5311 5312	Data 1728872 J Altitude 1313 1325 1422.5 1439	GerEmisE Review V K TPY_SO2 1.94661 13.8444 19.0562 1.76151	kyKhoroo_2015 iew Devel SO2_corr 1.84928 13.1522 18.1034 1.67343	_ByGrid_Conc oper Acro M SO4 0.224 1.59313 2.19286 0.2027	lensedDust.xls bat Team N TPY_NOx 0.45559 3.24022 4.45999 0.41227	0 TPY_TSP 4.21446 29.9736 41.2571 3.81371	P TSP_corr 7.39217 52.5737 72.365 6.68924	Q TPY_PM10 2.7394 19.4828 26.8171 2.47891	R PM10_cor 4.80491 34.1729 47.0372 4.34801	S NO3 0.00831 0.05909 0.08133 0.00752	T TPY_CO 35.1221 249.791 343.825 31.7823 17.9256	386 ! SRC 387 ! SRC 388 ! SRC 388 ! SRC 389 ! SRC
516	440031 40031 40 C C C Home K2 A IXIY 420029 420030 420031 420032 430030	G MinY 5309000 5310000 5311000 5312000 5310000 5311000	Page Layout <i>f</i> (1) H GridX 652 652 652 652 653	654000 Formulas 0.0341255613 GridY 5309 5310 5311 5312 5310	Data 1728872 J Altitude 1313 1325 1422.5 1439 1317.5	GerEmisE Review V TPY_SO2 1.94661 13.8444 19.0562 1.76151 0.99476	L SO2_corr 1.84928 13.1522 18.1034 1.67343 0.94502 6.88196	ByGrid_Conc oper Acro M SO4 0.224 1.59313 2.19286 0.2027 0.11447	N TPY_NOx 0.45559 3.24022 4.45999 0.41227 0.23305	0 TPY_TSP 4.21446 29.9736 41.2571 3.81371 2.14689	P TSP_corr 7.39217 52.5737 72.365 6.68924 3.76564	Q TPY_PM10 2.7394 19.4828 26.8171 2.47891 1.39548	R PM10_cor 4.80491 34.1729 47.0372 4.34801 2.44767	S NO3 0.00831 0.05909 0.08133 0.00752 0.00423	T TPY_CO 35.1221 249.791 343.825 31.7823 17.9256 95.7997	 2
516 X File 1 387 388 389 390 391 392	440031 40031 40031 Home K2 A IXIY 420029 420030 420031 420032 430030 430031	↓ Insert ↓ </td <td>Page Layout f (H GridX 652 652 652 653 653</td> <td>654000 Formulas 0.0341255613 GridY 5309 5310 5311 5312 5310 5311</td> <td>Data J 1728872 Altitude 1313 1325 1422.5 1422.5 1439 1317.5 1382.5</td> <td>GerEmisE Review V TPY_SO2 1.94661 13.8444 19.0562 1.76151 0.99476 7.24417</td> <td>L SO2_corr 1.84928 13.1522 18.1034 1.67343 0.94502 6.88196 1.15842</td> <td>ByGrid_Conc opper Acro SO4 0.224 1.59313 2.19286 0.2027 0.11447 0.83361</td> <td>N TPY_NOx 0.45559 3.24022 4.45999 0.41227 0.23305 2.05218</td> <td> Microsoft 0 TPY_TSP 4.21446 29.9736 41.2571 3.81371 2.14689 5.18421 </td> <td>P TSP_corr 7.39217 52.5737 72.365 6.68924 3.76564 9.0931</td> <td>Q TPY_PM10 2.7394 19.4828 26.8171 2.47891 1.39548 3.36973</td> <td>R PM10_cor 4.80491 34.1729 47.0372 4.34801 2.44767 5.91051</td> <td>S NO3 0.00831 0.05909 0.08133 0.00752 0.00423 0.01022</td> <td>T TPY_CO 35.1221 249.791 343.825 31.7823 17.9256 95.7997 15.3272</td> <td> 2</td>	Page Layout f (H GridX 652 652 652 653 653	654000 Formulas 0.0341255613 GridY 5309 5310 5311 5312 5310 5311	Data J 1728872 Altitude 1313 1325 1422.5 1422.5 1439 1317.5 1382.5	GerEmisE Review V TPY_SO2 1.94661 13.8444 19.0562 1.76151 0.99476 7.24417	L SO2_corr 1.84928 13.1522 18.1034 1.67343 0.94502 6.88196 1.15842	ByGrid_Conc opper Acro SO4 0.224 1.59313 2.19286 0.2027 0.11447 0.83361	N TPY_NOx 0.45559 3.24022 4.45999 0.41227 0.23305 2.05218	 Microsoft 0 TPY_TSP 4.21446 29.9736 41.2571 3.81371 2.14689 5.18421 	P TSP_corr 7.39217 52.5737 72.365 6.68924 3.76564 9.0931	Q TPY_PM10 2.7394 19.4828 26.8171 2.47891 1.39548 3.36973	R PM10_cor 4.80491 34.1729 47.0372 4.34801 2.44767 5.91051	S NO3 0.00831 0.05909 0.08133 0.00752 0.00423 0.01022	T TPY_CO 35.1221 249.791 343.825 31.7823 17.9256 95.7997 15.3272	 2
516 X Fill 1 387 388 389 390 391 392 393	440031 40031 Home K2 A IXIY 420029 420030 420031 420032 430030 430031	G MinY 5309000 5310000 5312000 5312000 5312000 5312000 5312000	Page Layout f (H GridX 652 652 652 653 653 653	654000 Formulas 0.0341255613 GridY 5309 5310 5311 5312 5310 5311 5312	Data J 1728872 Altitude 1313 1325 1422.5 1422.5 1423 1317.5 1382.5 1382.5 1488	GerEmisE Review V K TPY_SO2 1.94661 13.8444 19.0562 1.76151 0.99476 7.24417 1.21939 1.7766	L SO2_corr 1.84928 13.1522 18.1034 1.67343 0.94502 6.88196 1.15842	ByGrid_Conc oper Acro SO4 0.224 1.59313 2.19286 0.2027 0.11447 0.83361 0.14032	N TPY_NOx 0.45559 3.24022 4.45999 0.41227 0.23305 2.05218 0.3536	0 TPY_TSP 4.21446 29.9736 41.2571 3.81371 2.14689 5.18421 0.63245	P TSP_corr 7.39217 52.5737 72.365 6.68924 3.76564 9.0931 1.10931	Q TPY_PM10 2.7394 19.4828 26.8171 2.47891 1.39548 3.36973 0.41109	R PM10_cor 4.80491 34.1729 47.0372 4.34801 2.44767 5.91051 0.72105	S NO3 0.00831 0.05909 0.08133 0.00752 0.00423 0.00423 0.01022 0.00125	T TPY_CO 35.1221 249.791 343.825 31.78236 95.7997 15.3272 30.8529	 2

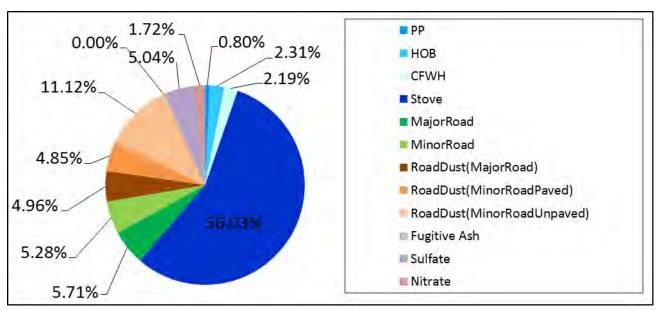
Regarding the formula in the column that creates the string of source information to be inserted in CALPUFF input file, correct the cell that specifies TSP and PM10 emission to the cell of the value considering condensed dust.

Z	L) - (2 -	1=				GerEmisB	vKhoroo 2015	i ByGrid Cond	ensedDust.xl	sx - Microsoft Excel					- 0	×
File		Insert	Page Lavout	Formulas	Data		iew Devel								∞ (?)	-
	STDEV.S										E*34*3600\ "	00000510			-	_
	STDEV.S	• (E			D"),",",TEXT(5 <mark>2/</mark> (365*24*)	3600),"0.000	00E+00"),",0,		+00"),",",TEXT(M2/(36 (365*24*3600),"0.000						
	А	N	0	P	0	R	S	Т		U	V	W	X	Y	Z	
1	IXIY	TPY NOx	-	TSP corr	-			TPY CO		0			X		-	-1
2	130019	0.00843	_	-	_	0.06933		_	1 SRCN	AM = grd00001 !	=CONCAT	ENATE(D2	," ! X = 5,",J	2 " 50 " TE	XT(12/(3)	65*
3	130020	0.86703		10.9688	4.06483	7.12971				AM = grd00002 !			E+00"),",",T			
4	130021	0.16506		2.08816		1.35731				AM = grd00003 !			0"),",",TEXT))
5	130027	0.0465			0.25867	0.45371				AM = grd00004 !			TEXT(S2/(3			"
- 6	130028	0.11188			0.6224	1.09169				AM = grd00005 !			,",TEXT(O2/			
7	140020	0.59642				4.9044	0.00848			AM = grd00006 !			TEXT(Q2/(3			
8	140021	1.01991	7.3562		4.78153	8.3868	0.0145			AM = grd00007 !			TEXT(T2/(3			
9	140022	0.13306			0.62382	1.09418				AM = grd00008 !	"0.00000				//	
10	140024	0.27958		3.53699	1.31074	2.29904	0.00398			AM = grd00009 !			40899E-08	.4.12931F-	-09.8.865	51F
11	140025	0.00057				0.0047	8.1E-06			IAM = grd00010 !			5.96610E-1			
!!</td <td></td> <td> ↓</td> <td></td> <td>1</td> <td></td> <td>GerEmisB</td> <td>yKhoroo_2015</td> <td>i_ByGrid_Cond</td> <td>ensedDust.xl</td> <td>sx - Microsoft Excel</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>X</td>		↓		1		GerEmisB	yKhoroo_2015	i_ByGrid_Cond	ensedDust.xl	sx - Microsoft Excel				-		X
File		Insert	Page Layout	Formulas	Data	Review Vi	iew Devel	oper Acrol	bat Tean	1					∞ 🕜 🗆	æ
	STDEV.S		-	=CONCATEN	ATE(D2." ! X	= 5.".J2.".50	.".TEXT(L2/(3	365*24*3600	."0.00000E	+00"),",",TEXT(M2/(36	55*24*3600)."	0.00000E+0	D").".".TEXT(N2/(365*24*	*3600).	
					D"),",",TEXT(<mark>52/(</mark> 365*24*	3600),"0.000	00E+00"),",0,		(365*24*3600),"0.000						
	А	N	0	Р	Q	R	S	Т		U	V	W	Х	Y	Z	
1	IXIY	TPY NOx	TPY TSP	TSP corr	TPY PM1	PM10 cor	NO3	TPY CO								
2	130019	0.00843	0.06081	0.10666	0.03953	0.06933	0.00012	0.57226	1 ! SRCN/	AM = grd00001 !	=CONCAT	ENATE(D2	," ! X = 5,",J	12,",50,",TE	XT(L2/(3	65*
3	130020	0.86703	6.25358	10.9688	4.06483	7.12971	0.01233	58.8499	2 ! SRCN/	AM = grd00002 !	24*3600)	,"0.00000	E+00"),",",1	EXT(M2/(365*24*	
4	130021	0.16506	1.19052	2.08816	0.77384	1.35731	0.00235	11.2035	3 ! SRCN/	AM = grd00003 !	3600),"0.0	00000E+0	0"),",",TEX1	(N2/(365*	*24*3600)),
5	130027	0.0465	0.39795	0.69801	0.25867	0.45371	0.00078	3.43982	4 ! SRCN/	AM = grd00004 !	"0.00000	E+00"),",",	TEXT(S2/(3	65*24*36	00),	
6	130028	0.11188	0.95754	1.67953	0.6224	1.09169	0.00189	8.27674	5 ! SRCN/	AM = grd00005 !	"0.00000	E+00"),",0	,",TEXT(P2/	(365*24*3	3600),	
7	140020	0.59642	4.30173	7.54524	2.79613	4.9044	0.00848	40.4819	6 ! SRCN/	AM = grd00006 !	"0.00000	E+00"),",",	TEXT(R2/(3	65*24*36	.00),	
8	140021	1.01991	7.3562	12.9028	4.78153	8.3868	0.0145	69.2263	7 ! SRCN/	AM = grd00007 !	"0.00000	E+00"),",",	TEXT(T2/(3	65*24*36	00),	
9	140022	0.13306	0.95972	1.68335	0.62382	1.09418	0.00189	9.03157	8 ! SRCN/	AM = grd00008 !	"0.00000	E+00")," !	!END!")			
10	140024	0.27958	2.01653	3.53699	1.31074	2.29904	0.00398	18.9767	9 ! SRCN/	AM = grd00009 !	9 ! X = 5,1	382,50,3.	40899E-08	,4.12931E	-09,8.865	5 1 1
11	140025	0.00057	0.00412	0.00723	0.00268	0.0047	8.1E-06	0.03878	10 ! SRCM	IAM = grd00010 !	10 ! X = 5,	1354,50,0	5.96610E-1	1,8.43804	E-12,1.81	16
	- 19 - (11 -	-				GerEmisB	yKhoroo_2015	5_ByGrid_Cond	ensedDust.xl	sx - Microsoft Excel						X
Fil	Home	Insert	Page Layout	Formulas	Data	Review Vi	iew Devel	oper Acrol	bat Tean	1					∞ 🕜 🗆	æ
	V2	• (8	f _x	=CONCATEN	ATE(D2," ! X	= 5,",J2,",50	,",TEXT(L2/(3	365*24*3600),"0.00000E	+00"),",",TEXT(M2/(36	55*24*3600),"	0.00000E+0	D"),",",TEXT(N2/(365*24*	*3600),	
				"0.00000E+00 TEXT(T2/(365					,",TEXT(P2/	(365*24*3600),"0.000	00E+00"),",",T	EXT(R2/(36	5*24*3600),'	'0.00000E+00)"),",",	
	А	N	0	Р	Q	R	S	Т		U	V	W	Х	Y	Z	
1	IXIY	TPY_NOx	TPY_TSP	TSP_corr	TPY_PM1(PM10_cor	NO3	TPY_CO								
2	130019	0.00843	0.06081	0.10666	0.03953	0.06933	0.00012	0.57226	1 ! SRCN	AM = grd00001 !	1 ! X = 5,1	234,50,1.	02801E-09	,1.24523E	-10,2.673	\$47
3	130020	0.86703	6.25358	10.9688	4.06483	7.12971	0.01233	58.8499	2 ! SRCN/	AM = grd00002 !	2 ! X = 5,1	480,50,1.	05718E-07	,1.28057E	-08,2.749	34
4	130021	0.16506	1.19052	2.08816	0.77384	1.35731	0.00235	11.2035	3 ! SRCN/	AM = grd00003 !	3 ! X = 5,1	234,50,2.	01260E-08	,2.43786E	-09,5.234	i01
5	130027	0.0465	0.39795	0.69801	0.25867	0.45371	0.00078	3.43982	4 ! SRCN	AM = grd00004 !	4 ! X = 5,1	292,50,5.	86127E-09	,7.09975E	-10,1.474	48
6	130028	0.11188	0.95754	1.67953	0.6224	1.09169	0.00189	8.27674	5 ! SRCN/	AM = grd00005 !	5 ! X = 5,1	832,50,1.	41031E-08	,1.70831E	-09,3.547	/84
7	140020	0.59642	4.30173	7.54524	2.79613	4.9044	0.00848	40.4819	6 ! SRCN/	AM = grd00006 !	6 ! X = 5,1	584.5,50,	7.27219E-0	8,8.80880)E-09,1.89	912
8	140021	1.01991	7.3562	12.9028	4.78153	8.3868	0.0145	69.2263	7 ! SRCN/	AM = grd00007 !	7 ! X = 5,1	245,50,1.	24358E-07	,1.50635E	-08,3.234	10
9	140022	0.13306	0.95972	1.68335	0.62382	1.09418	0.00189	9.03157	8 ! SRCN/	AM = grd00008 !	8 ! X = 5,1	238.7,50,	1.62244E-0	08,1.96526	5E-09,4.21	193
10	140024	0.27958	2.01653	3.53699	1.31074	2.29904	0.00398	18.9767	9 ! SRCN/	AM = grd00009 !	9 ! X = 5,1	882,50,3.	40899E-08	,4.12931E	-09,8.865	51
1	140025	0.00057	0.00412	0.00723	0.00268	0.0047	8.1E-06	0.03878	10 ! SRCM	IAM = grd00010 !	10 ! X = 5	1354.50.0	5.96610E-1	1.8.43804	F-12.1.81	16

7.3.2 <u>Conducting Dispersion Simulation and Organizing the Calculation Result by Using the</u> <u>Emission Considering Condensed Dust</u>

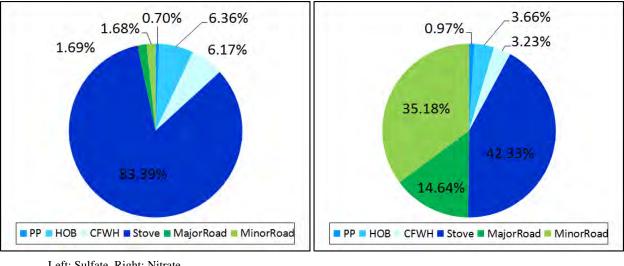
Repeat step 5 and 6.1 to 6.3 using the estimated emissions.

The result of dispersion simulation using the emission of PM10 considering condensed dust is shown in Figure 7.3-4. Also, the concentration ratio by source in sulfate and nitrate is shown in Figure 7.3-5.



Source: JICA Experts





Left: Sulfate, Right: Nitrate Source: JICA Experts



8 Evaluation of Air Pollution Control Measure Plan

8.1 Conducting the Dispersion Simulation Based on Air Pollution Control Measure Plan

Figure 8.1-1 shows the flow diagram of estimation of emission and conduct of dispersion simulation based on control measures. Two calculation methods are assumed depending on whether the reduction of PM emission in emission inventory and the reduction of condensed dust in PM emission are proportional to each other when estimating the emissions considering condensed dust after control measure.

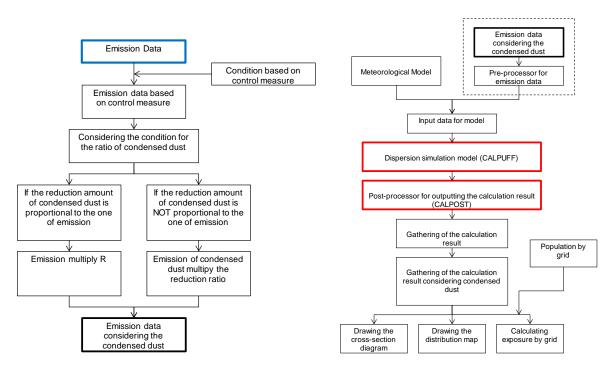


Figure 8.1-1 Flow Diagram for Estimation of Emission and Conduct of Dispersion Simulation Based on Air Pollution Control Measures

8.1.1 In the Case of Proportion

In this case, condensed dust will be assumed to decrease at the same ratio as the emission reduction in emission inventory. Therefore, estimate the emissions considering condensed dust according to the following formula. The image of the estimate of emissions is shown in Figure 8.1-2. An example of control measure is the case that coal consumption expected to decrease by replacement to a boiler or a stove with high efficiency combustion.

$$\mathbf{Es'} = \mathbf{E_1'} * \mathbf{R}$$

Es': Emission considering condensed dust after control measures

E1': Emission considering only primary particle after control measures

R: Additional ratio of condensed dust (Value of each source calculated in 7.2)

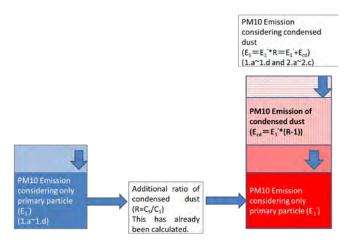


Figure 8.1-2 Image of the Estimate of Emissions in the Case of Proportion

8.1.2 In the Case of Not Proportion

In this case, the reduction of condensed dust will be assumed to change due to different factors from the emission reduction in emission inventory. Estimate the emissions considering condensed dust according to the following formula. The image of the estimate of emissions is shown in Figure 8.1-3. An example of control measure is the case that since the installation of cyclone in HOB reduces the emission of particulate matter, especially primary particles, but the volatile matter from which condensed dust is produced does not decrease, the emission of condensed dust is the same as before control measure.

$$Es' = E'_1 + E_{cd}$$
$$E_{cd} = E_1 * (R - 1) * X$$

Es': Emission considering condensed dust after control measures

E1': Emission considering only primary particle after control measures

E_{cd}: Emission of condensed dust after control measures

E1: Emission considering only primary particle before control measures

R: Additional ratio of condensed dust (Value of each source calculated in 7.2)

X: Reduction ratio of condensed dust (X=1: Not reduction of condensed dust, X=0: Condensed dust disappears)

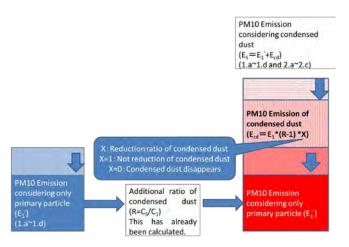


Figure 8.1-3 Image of the Estimate of Emissions in the Case of Not Proportion

8.2 Evaluation of Air Pollution Control Measure Plan

Compare emissions and concentrations (maximum concentration, average concentration) before and after implementation of control measures plan, and verify the reduction effect of emissions and concentration. On the other hand, when narrowing down the areas to which control measure is applied, the reduction effect of emission and concentration in the applicable area should be verified.

To evaluate the influence to citizens in UB city, the exposure that PM10 concentration weighted by population (PWE; Population-Weighted Exposure) was calculated. Using PWE, the concentration considered the size of population can be calculated. The method in WB $(2011)^{12}$ was used as calculation method of PWE.

$$PWE = \frac{\sum (C_i \times P_i)}{PT}$$

PWE: PWE in calculation area (µg/m3)

Ci: Concentration in grid i (μ g/m3)

Pi: Population in grid i

PT: Total population in calculation area

In addition, obtain information on costs for implementing control measures and estimate the cost for implementing control measures based on this information. Estimate the cost to reduce 1ton or $1\mu g/m3$ by dividing the estimated cost by the reduction amount of emission or concentration. The smaller this amount is, the more cost-effectiveness is.

Obtain information on costs by interviewing administrative organizations such as ministries and agencies that control measure jurisdiction and companies that produce improved fuels and flow gas treatment equipment.

As examples of utilization of these methods, a case where a cyclone is installed into a HOB without a flow gas treatment equipment is shown.

¹² Air Quality Analysis of Ulaanbaatar Improving Air Quality to Reduce Health Impacts, WB 2011

Example: Installation of cycleon for control measure to HOB

In the case of cyclone is installed to all boilers without stack gas treatment equipment (164 units) in HOB emission inventory for 2015, emission estimation and dispersion simulation were conducted.

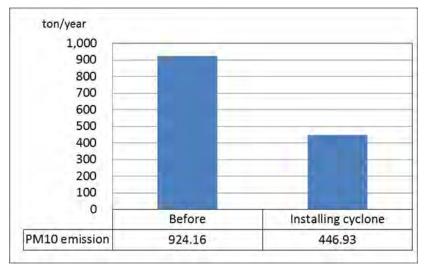
1. Setting

Dust collection efficiency of cyclone was set to 60%. Since only particle matter can be collected by cyclone, amount of condensed dust was set to be the same as before control measure.

2. Chenge PM10 emission

Change of emission is the following figure. Reduction ratio was 51.64%.

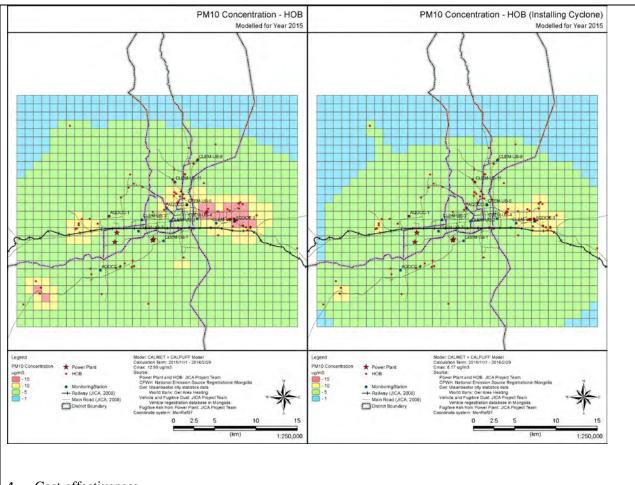
排出量の変化は以下の Figure の通りである。削減率は 51.64% であった。



3. Change PM10 concentration

PM10 concentration distribution is shown in the following figures. In addition, Maximum PM10 concentration and PWE is shown in the following table.

	Before	After	Reduction amount
Maximum concentration	12.99	8.17	4.72
PWE	4.85	3.10	1.76



4. Cost-effectiveness

Since many boilers without cyclone are relatively small capacity boilers, the installment cost of a cyclone was set as the average costs for 0.4 MW and 0.7 MW (5,940,000Tg).

5,940,000Tg x 164units / 477.23ton = 2,041,000 Tg/ton