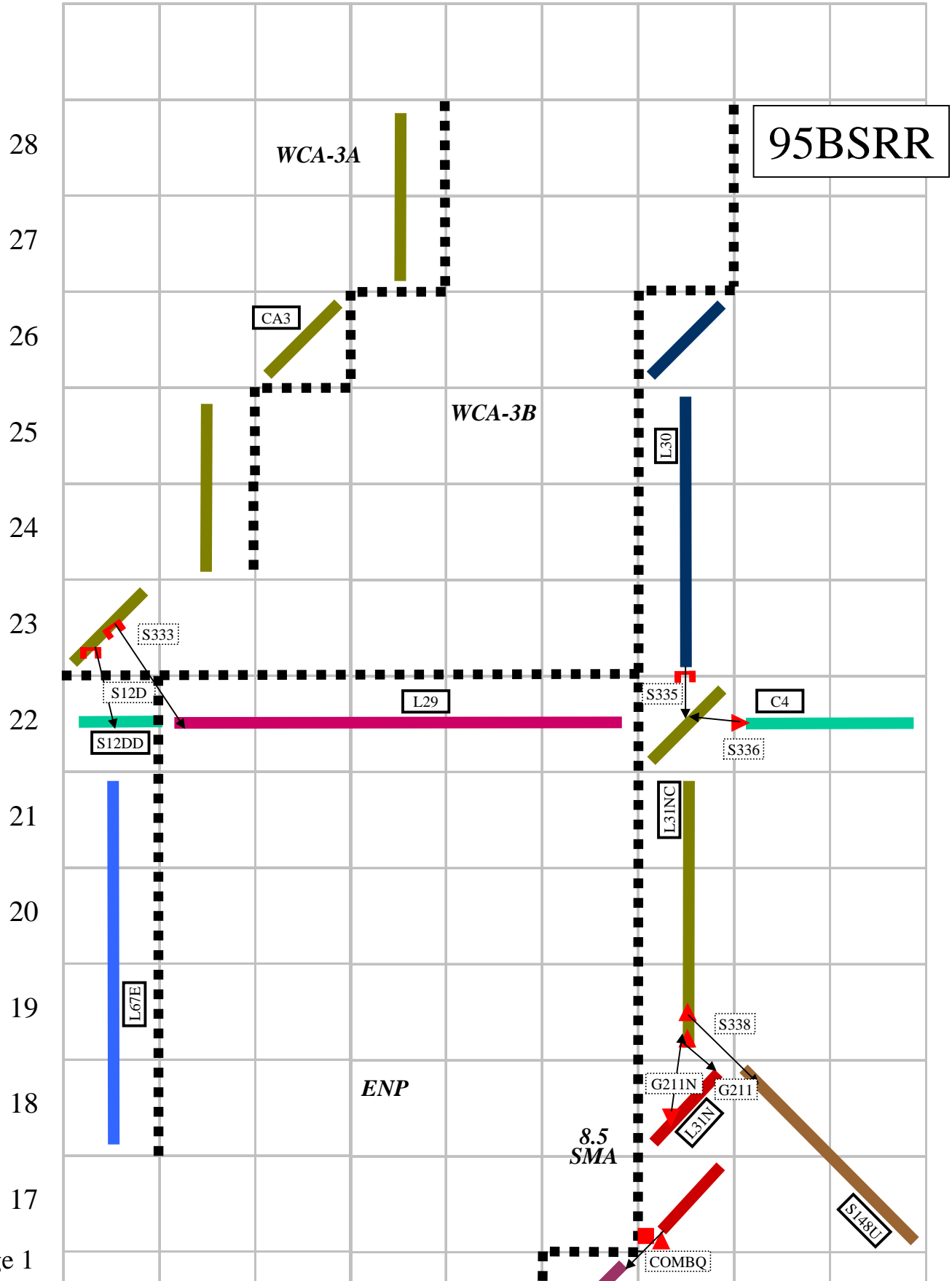
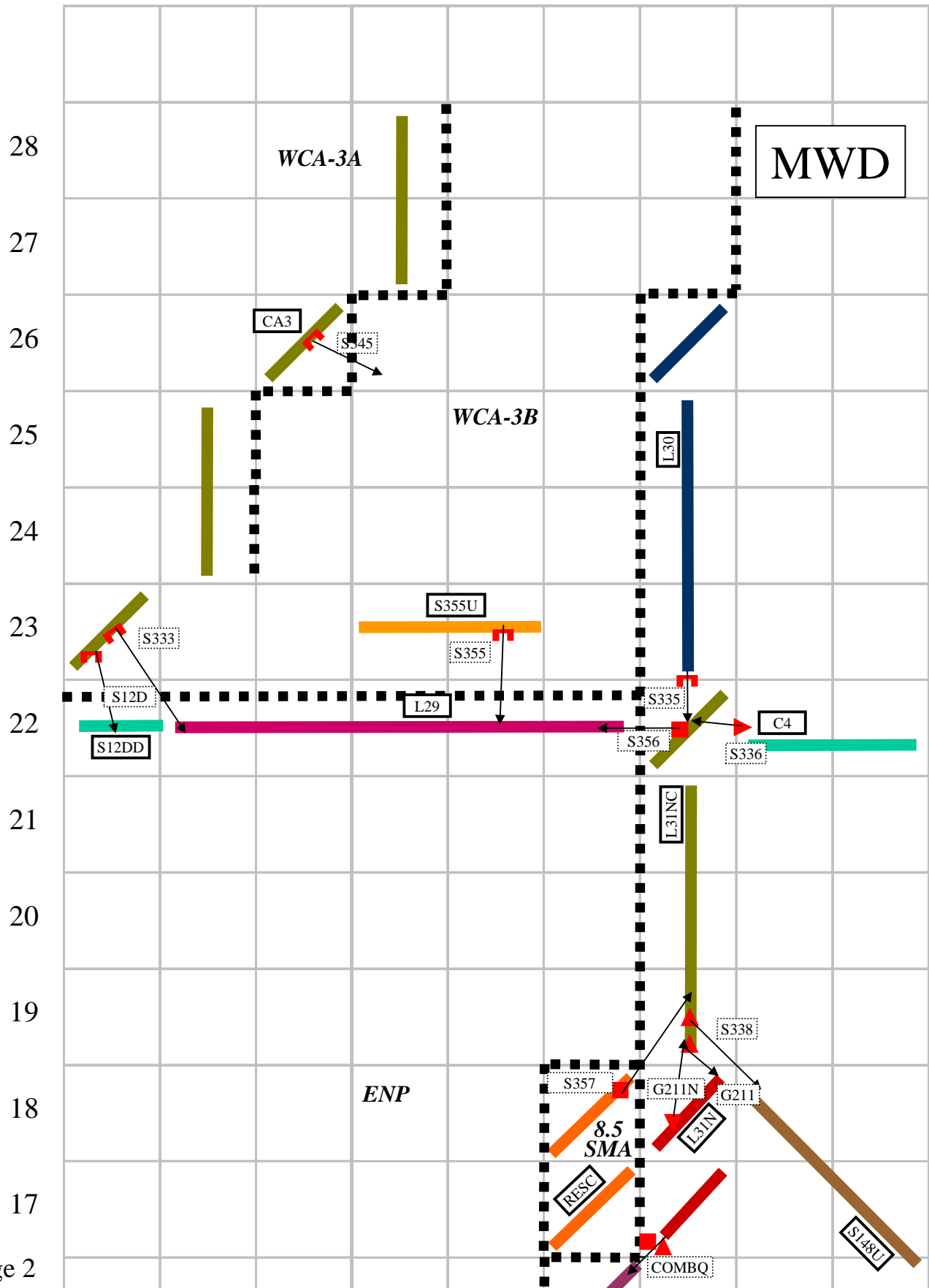


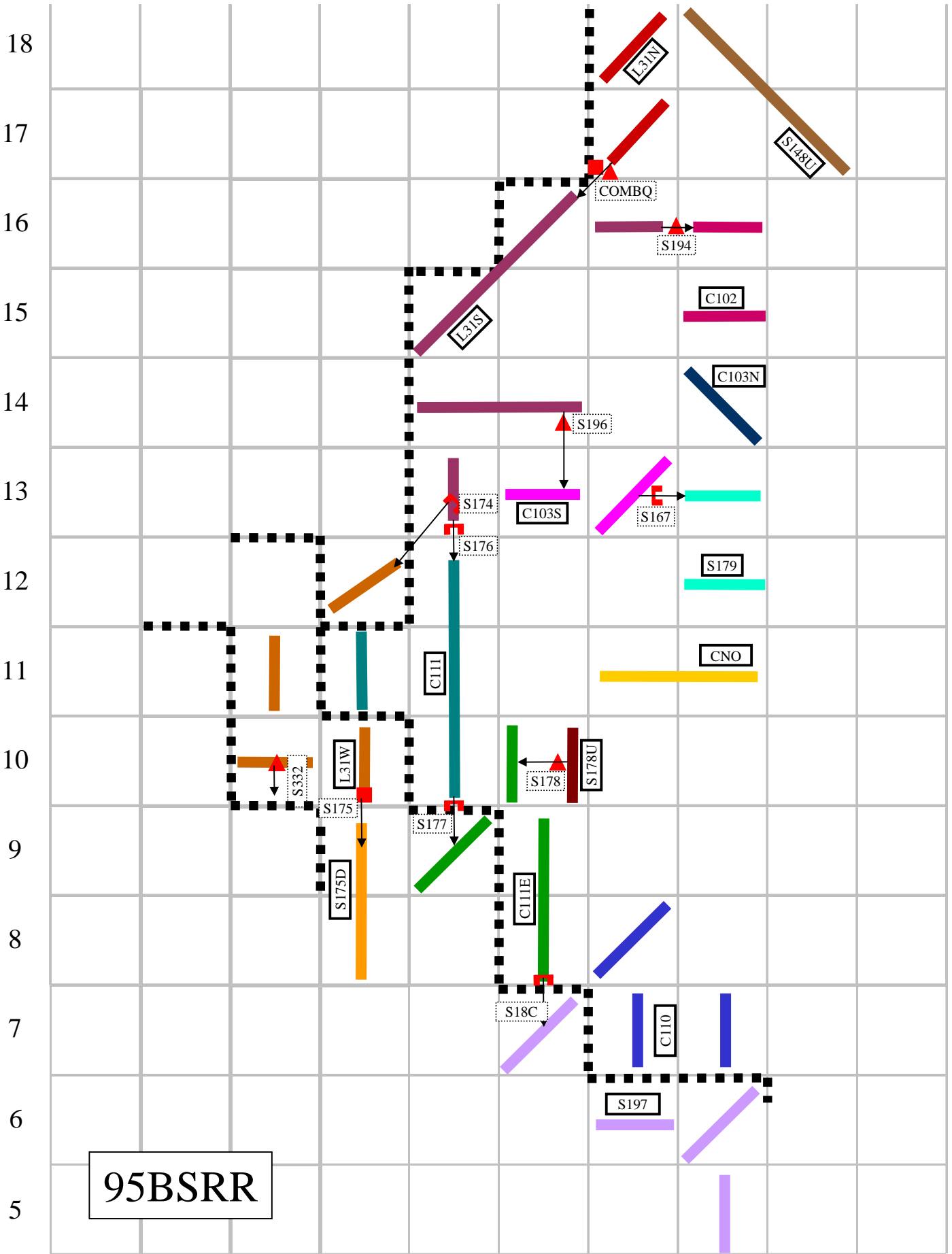
SFWMM GRID Maps

21 22 23 24 25 26 27 28 29



21 22 23 24 25 26 27 28 29

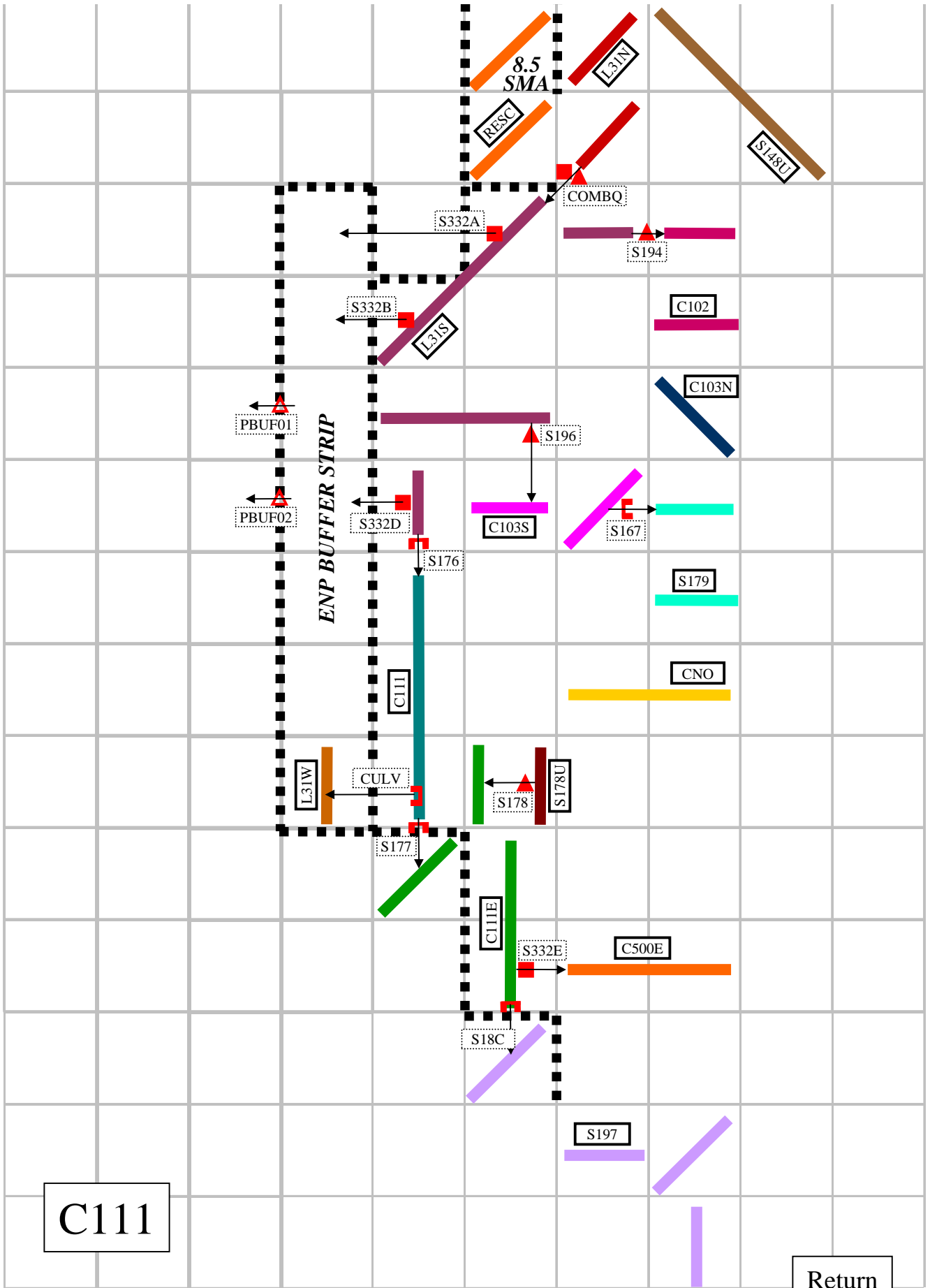




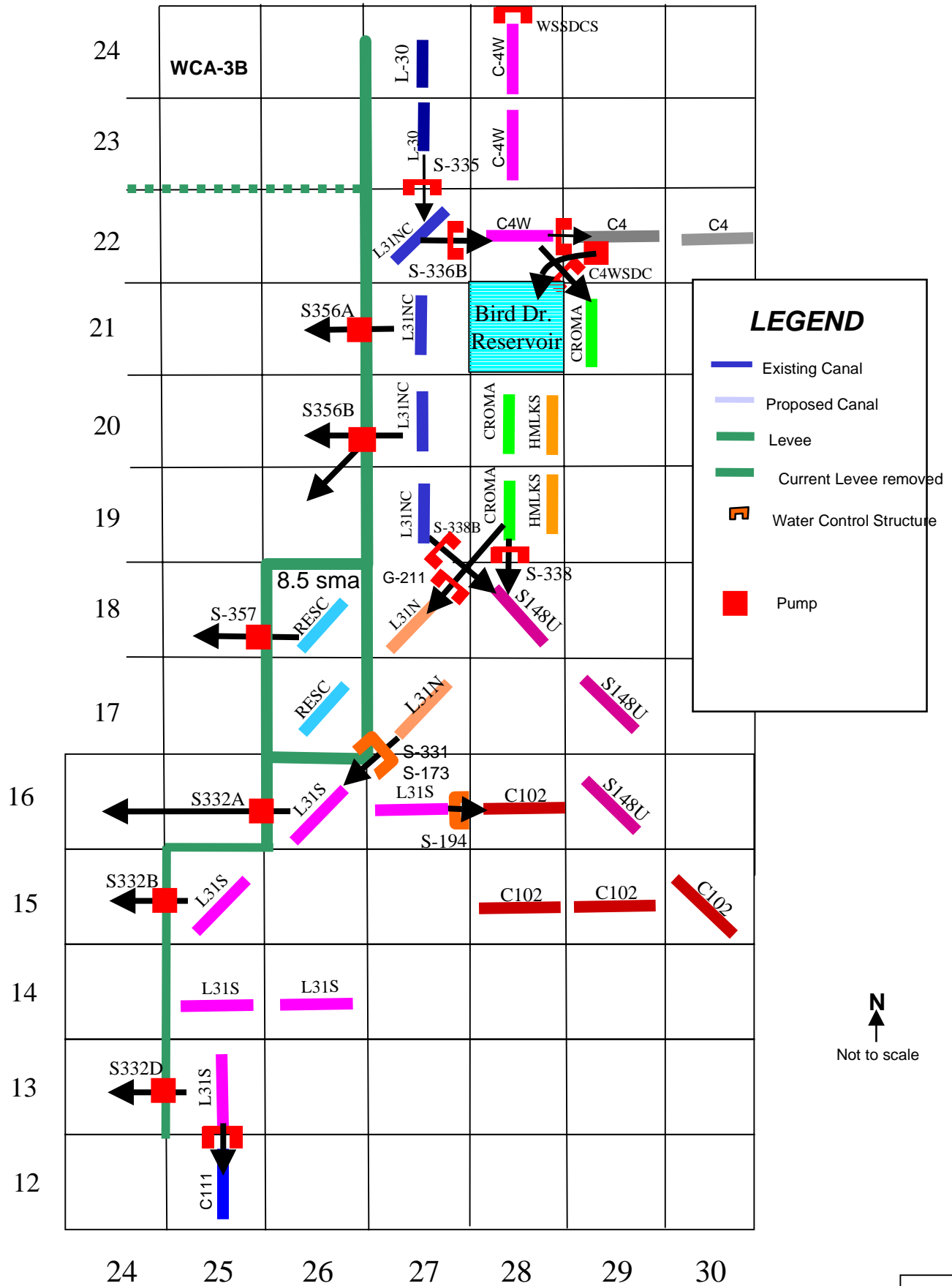
18
17
16
15
14
13
12
11
10
9
8
7
6
5

C111

Return



2010 Case Study



Notes: CBN = hydrologic basin number: Same value for cells sharing a common face --> overland flow is allowed across common face. Different value for cells sharing a common face --> NO overland flow is allowed across common face. Special CBNs: 44, 63, 64, 65

BEGCOMM-----

THIS FILE CONTAINS THE STATIC DATA INPUT FOR ALL GRID CELLS WITHIN MODEL DOMAIN. EACH RECORD IN THIS FILE CONTAINS THE FOLLOWING: 1. THREE CHARACTER ID OF TYPE OF DATA 2. ROW NUMBER FOR DATA INPUT IN RECORD 3. MINIMUM COLUMN NUMBER FOR DATA IN RECORD 4. MAXIMUM COLUMN NUMBER FOR DATA IN RECORD 5. DATA FOR EACH GRID CELL REPRESENTED IN RECORD

THE TYPE OF DATA INPUT (IDENTIFIED IN FIRST 3 CHARACTERS IN EACH RECORD) IS IN THE FOLLOWING ORDER:

Table with 2 columns: THREE CHARACTER ID, TYPE OF DATA. Rows include: 1. AEL LAND SURFACE ELEVATION (FT NGVD), 2. STC STORAGE COEFFICIENT, 3. BLU LAND USE TYPE INDEX (DESCRIPTION IN LECDEF FILE), 4. CBN HYDROLOGIC BASIN INDEX

ENDCOMM-----

Main data table with columns for CBN, row number, and grid cell values. A red box highlights a specific region of the data.

Note: Order of canals in canal22 should match order of canals in cndta22

V3.7

canal22

BEGCOMM-----

CANAL LOCATION DEFINITION FILE

THE FOLLOWING IS INPUT FOR EACH CANAL:

CHARACTER ID OF CANAL; NUMBER OF GRID CELLS
THROUGH WHICH THE CANAL PASSES; GRID LOCATIONS
IN THE FORM (COL,ROW,ORIENTATION) WHERE FOR
ORIENTATION - 1: CANAL ORIENTED EAST-WEST
AT GRID LOCATION
- 2: CANAL ORIENTED NORTH-SOUTH
AT GRID LOCATION
- 3: CANAL ORIENTED DIAGONALLY.

THE INDICES FOR ORIENTATION ARE USED TO CALCULATE
THE LENGTH OF SEGMENT OF CANAL WITHIN EACH GRID CELL.

THE CANALS ARE ASSUMED TO BE IN THE CENTER OF GRID CELLS.

ENDCOMM-----

```
L8W 1 23 62 1
C18 7 35 61 1 36 59 2 37 59 2 36 60 2 36 61 2 36 62 1
      37 62 3
C17 2 39 57 2 39 58 2
L10 13 22 60 1 23 59 3 24 58 1 25 58 1 26 57 3 27 56 3
      28 55 3 29 54 3 24 53 3 25 54 1 26 54 1 27 54 1 28 54 1

NNRFG 1 32 35 1
.
.
S355U 2 23 23 1 24 23 1
.
.
L31W 4 24 12 3 23 11 2 23 10 1 24 10 2
C111 43 25 12 2 24 11 2 25 11 2 25 10 2
L31W 1 24 10 2
.
.
S175D 2 24 9 2 24 8 2
L67E 4 21 21 2 21 20 2 21 19 2 21 18 2
.
.
C500E 2 27 8 1 28 8 1
.
.
C110 3 27 8 3 27 7 2 28 7 2
.
.
RESC 2 26 18 3 26 17 3
```

Due to WS/FC culvert from C111 to L31W

Note: Order of canals in cndta22 should match order of canals in canal22

V3.7

cndta22

BEGCOMM-----
THIS FILE CONTAINS CANAL AND STRUCTURE DEFINITION
DATA. DATA ARE USED IN THE CHANNEL FLOW SUBROUTINE.
DESCRIPTION OF THE DATA BELOW IS AS FOLLOWS WHICH REPEATS
FOR EACH CANAL INPUT:

- FIRST RECORD CONTAINS:
1. CHARACTER ID OF CANAL (MAX 5 CHARACTERS)
2. MEAN HEAD DROP FOR DRY, THEN WET SEASON (IN FEET), OF WATER SURFACE
ALONG THE CANAL FROM UPSTREAM TO DOWNSTREAM END
3. AVERAGE WIDTH OF CANAL (FT).
4. CHANNEL HYDRAULIC CONDUCTIVITY COEFFICIENT (FT/DAY/FT HEAD DIFF)
5. DESIRED MINIMUM STAGE AT DOWNSTREAM END OF CANAL MAINTAINED
DURING DRY PERIODS BY EXISTING OR PROPOSED STORAGE SYSTEMS
WHEN SUFFICIENT WATER IS AVAILABLE
6. INITIAL STAGE AT DOWNSTREAM END OF CANAL (FT NGVD)
7. CHARACTER ID OF CANAL IMMEDIATELY UPSTREAM THAT DELIVERS
WATER TO CANAL FOR WATER SUPPLY (NOCNL MEANS NO CANAL
UPSTREAM DELIVERS WATER TO CANAL FOR WATER SUPPLY)
8. NUMBER OF BRANCHES (OUTLET STRUCTURES) IN CANAL USED
FOR WATER SUPPLY PURPOSES (DEFAULT IS 1)
9. HYDROLOGIC BASIN IDENTIFIER CANAL IS LOCATED. THIS IDENTIFIER
DETERMINES WHETHER CANAL HAS SURFACE WATER INTERACTION WITH THE
GRID CELL(S) THROUGH WHICH CANAL PASSES. IF IDENTIFIER IS
THE SAME AS IDENTIFIER INPUT FOR GRID CELL IN STATDTA FILE, THEN
SURFACE WATER INTERACTION EXISTS BETWEEN CANAL AND GRID CELL;
OTHERWISE, NO SURFACE WATER INTERACTION EXISTS.
10. NUMBER OF OUTLET STRUCTURES SIMULATED AS FIXED CREST WEIRS.
FORMAT OF RECORD IS (A5,2X,F4.1,5F7.1,2X,A5,3I5)

.
.
.
.
.
.

ENDCOMM-----
0 !number of structures with downstream
nodal stage targets as limit to flow ; names of structure,
fraction of flow released when stage is above target stage
for each structure (FREE FORMAT)

.
.
.

C14DR 0.1 0.1 35.0 2.5 -9.5 -9.5 3.3 NOCNL 1 0 1
C14DRQ POMP 38 39 38 38 13.22 3.5 30.0
0 0
S355U 0.0 0.0 20.0 0.1 6.5 6.5 7.70 NOCNL 1 5 0
0 1

BEGCOMM-----
S-355

ENDCOMM-----
S355

24 23 24 22
1
1
L29
0
8.50 8.50
6.50 6.50
0.00
0
1 L29 8.00
1
1 17.15
1 8.00
1
2 1 2000. 3000. 0.50 -901.00

.
.

Note: Order of canals in cndta22 should match order of canals in canal22

V3.7

cndta22

CA3 0.8 0.8 50.0 3.0 7.5 7.5 9.9 NOCNL 1 3 0

0 7

BEGCOMM-----

S-333

ENDCOMM-----

S333

21 23 22 22

1

1

L29

0

10.00 10.00

6.50 6.50

0.00

0

1 L29 8.00

1

1 ~~7.15~~ 17.15

1 8.00

1

3 1 1350. 1909. 0.50 -901.00

L31NC 0.1 0.1 80.0 5.0 -9.5 -9.5 5.3 L30 3 13 0 3

0 ~~3~~ 4

BEGCOMM-----

S-336

ENDCOMM-----

S336

27 22 28 22

0

1

C4

0

~~5.80 5.80~~ 6.00 6.00

~~5.50 5.50~~ 5.80 5.80

0.00

0

0

1

1

3 1 145. 221. 0.50 -901.00

BEGCOMM-----

S-338

ENDCOMM-----

S338

27 19 28 18

0

1

S148U

0

~~5.80 5.80~~ 6.00 6.00

~~5.50 5.50~~ 5.80 5.80

0.00

0

0

1

1

3 1 305. 390. 0.50 -901.00

.
. .
. .
. .
. .
. .

Note: Order of canals in cndta22 should match order of canals in canal22

V3.7

cndta22

```

.
.
.
BEGCOMM-----
  G-211
ENDCOMM-----
G211
  27   19   27   18
  0
  1
L31N
  0
  6.00  6.00  6.20  6.20
  5.50  5.50  5.70  5.70
  0.00
  0
  0
  1
  1
  3   1  -901.  890.  0.50 -901.00

```

```

BEGCOMM-----
  S-356
ENDCOMM-----
S356
  27   22   26   22
  1
  1
L29
  0
  6.00  6.00
  5.50  5.50
  0.00
  0
  1  L29      8.00
  1
  1
  2   2   900.  900.  0.00  5.00
  0  1.00

```

```

.
.
.
L31N  0.0  0.0  80.0  5.0  -9.5  -9.5  4.2  L31NC  1  13  0  3
  0  2

```

```

BEGCOMM-----
  S-331 AND S-173
ENDCOMM-----
COMBQ
  27   17   26   16
  1
  1
L31S
  1
  5.20  5.20
  4.80  4.80
  0.00
  0
  2  L31S      5.50  C111E      3.30
  1
  3   6.00  5.70  5.50
  2   5.00  4.50
  3
  3   1  -901.  390.  0.41 -901.00
  3   1   150.  175.  0.50 -901.00
  3   2  1160.  1160.  0.00   4.00
  0  1.00

```

!number of stage triggers at Angel's Well for determination of flood control discharges ; values of stage triggers - FORMAT (I6,2x,5(F6.2,1x))
!number of headwater stages used to limit flood control discharges (input of 2 means seasonal variation); dry season,wet season stages. - FORMAT (I6,2x,2(F6.2,1x))

Note: Order of canals in cndta22 should match order of canals in canal22

V3.7

cndta22

```

.
BEGCOMM-----
  NORTHWARD FLOW THRU G-211
ENDCOMM-----
G211N
  27      18      27      19
  0
  1
L31NC
  2
  6.00  6.00  5.70  5.70
5.50  5.50
  0.00
  0
  0
  1
  1
  2      1  -901.  890.  0.50 -901.00
L31S  0.2  0.2  65.0  6.0  4.0  4.0  4.3  L31N  43  0  0  3
  0  46
BEGCOMM-----
  S-194
ENDCOMM-----
S194
  27      16      28      16
  0
  1
C102
  0
5.30  5.30  5.70  5.70
4.80  4.80  5.30  5.30
  0.00
  0
  1  C102      5.60
  1
  1
  3      1  -901.  450.  0.50 -901.00
BEGCOMM-----
  S-196
ENDCOMM-----
S196
  26      14      26      13
  0
  1
C103S
  0
5.50  5.50  5.70  5.70
4.80  4.80  5.30  5.30
  0.00
  0
  1  C103S      5.60
  1
  1
  3      1  200.  236.  0.50 -901.00
BEGCOMM-----
  S-176
ENDCOMM-----
S176
  25      13      25      12
  0
  1
C111
  0
5.00  5.00  6.00  6.00
4.75  4.75  5.30  5.30
  0.00
  0
  0
  1
  1
  3      1  630.  1023.  0.50 -901.00

```

Note: Order of canals in cndta22 should match order of canals in canal22

V3.7

cndta22

```

BEGCOMM-----
S-332A
ENDCOMM-----
S332A
  26   16   24   16
  0
  2
    1   24   16
  0
  5.50 5.50
  5.10 5.10
  0.00
  1 ENPBUF   1.0 NOTRG
  0
  1
  1
  2   2   300.  300.  0.00 -901.00
  0   1.00
BEGCOMM-----
S-332B
ENDCOMM-----
S332B
  25   15   24   15
  0
  2
    1   24   15
  0
  5.50 5.50
  5.10 5.10
  0.00
  1 ENPBUF   1.0 NOTRG
  0
  1
  1
  2   2   400.  400.  0.00 -901.00
  0   1.00
BEGCOMM-----
S-332D
ENDCOMM-----
S332D
  25   13   24   13
  0
  2
    1   24   13
  0
  5.00 5.00
  4.80 4.80
  0.00
  1 ENPBUF   1.0 NOTRG
  0
  1
  1
  2   2   500.  500.  0.00 -901.00
  0   1.00
BEGCOMM-----
S-174
ENDCOMM-----
S174
  25   13   24   12
  1
  1
L31W
  0
  4.85 4.85
  4.65 4.65
  0.00
  0
  0
  1
  1
  3   1   500.  970.  0.50  4.00

```

Note: Order of canals in cndta22 should match order of canals in canal22

V3.7

cndta22

C111 0.0 0.0 80.0 8.0 3.0 3.0 3.1 L31S 2 0 0 3
0 ~~1~~ 2

BEGCOMM-----
S-177

ENDCOMM-----
S177

25 10 25 9
0

1
C111E

0
~~4.20 4.20~~ 5.20 5.20
~~3.60 3.60~~ 4.30 4.30

0.00
0
0
1
1
3 1 1400. 1350. 0.50 -901.00

BEGCOMM-----
CULV

ENDCOMM-----
CULV

25 10 24 10
0

1
L31W

0
4.80 4.80
4.30 4.30
0.00

0
0
1
1
3 1 -901. 233. 0.50 -901.00

L31W 0.0 0.0 35.0 5.0 3.0 3.0 3.5 C111 1 6 0 3
0 ~~2~~ 0

~~BEGCOMM-----~~
~~S-332~~

~~ENDCOMM-----~~
~~S332~~

~~23 10 -901 -901~~

~~1~~
~~2~~

~~1 23 10~~

~~0~~
~~4.70 4.70~~
~~4.30 4.30~~

~~0.00~~
~~0~~
~~0~~

~~1~~
~~1~~

~~1 2 500. 500. 0.00 3.00~~
~~0 1.00~~

Note: Order of canals in cndta22 should match order of canals in canal22

V3.7

cndta22

```
.
.
.
BEGCOMM-----
S-175
ENDCOMM-----
S175
  24   10   24   9
  0
  1
S175D
  0
  4.70  4.70
  4.30  4.30
  0.00
  0
  0
  1
  1
  3   1   500.  660.  0.50 -901.00
HW29  10.5 10.5  40.0  2.0  -9.5  -9.5  0.2  NOCNL  1  6  1
HW29Q  BNDRY  1  27  -901  -901  19.22  1.0  35.0
  0  0
C111E  0.0  0.0  90.0  5.0  1.8  1.8  2.3  C111  1  0  0  3
  0  12
BEGCOMM-----
S-18C
ENDCOMM-----
S18C
  26   8   26   7
  0
  1
S197
  0
2.60  2.60  2.40  2.40
2.30  2.30  1.60  1.60
  0.00
  0
  0
  1
  1
  3   1  2100.  3000.  0.50 -901.00
BEGCOMM-----
S-332E
ENDCOMM-----
S332E
  26   8   27   8
  0
  1
C500E
  0
  2.40  2.40
  1.60  1.60
  0.00
  0
  0
  1
  1
  2   2   50.  50.  0.00  2.20
  0  1.00
.
.
.
S175D  0.0  0.0  60.0  5.0  -9.5  -9.5  3.0  L31W  1  6  0
  0  0
L67E  0.0  0.0  50.0  4.0  -9.5  -9.5  5.0  NOCNL  1  44  0
  0  0
.
.
```



```

5  -23 !number of STAs plus Rotenberger Tract if treated as reservoir;
      number of other proposed reservoirs. Total number of
      reservoirs is sum of these two numbers. Format (2i5)
LC101 STA1W STA5 ROTEN STA6 L8RES ENPBUF L37L33 NORES
      !character string(max 6 characters) identifiers of reservoirs
      1 to total number of reservoirs,including STAs.
      3 STA1W STA1E STA5 STA6 !number of reservoirs maintained at desired minimum
      levels during dry periods ; character string identification
      (max 6 characters) of the reservoirs
.
.
.
BEGCOMM-----
      ENP BUFFER FOR PROPOSED GRR PUMPS L31N
ENDCOMM-----
ENPBUF !character string identification of reservoir
27 !basin number identifying location of reservoir
6720. !actual area of reservoir (in acres)
17.0 !maximum stage allowed for structural INFLOW (ft NGVD)
-901. !minimum depth of water to be maintained during dry periods
      (source of water is Lake Okeechobee). Input of -901 means
      reservoir is not maintained.
      24 14 !grid location (col row) of reference cell for reservoir
BEGCOMM-----
      DATA FOR INFLOW STRUCTURES
ENDCOMM-----
3 !number of INFLOW structures
300. 400. 500. !discharge coefficient for each INFLOW structure
-901. -901. -901. . !crest elevation (ft NGVD) of each INFLOW structure
      (-901 means does not apply)
0.0 0.0 0.0 !exponent in equation to determine capacity of each
      INFLOW structure
1 1 !number of recipients of flow thru INFLOW structure #1;
      option for type of recipient (1 - grid cell , 0 - canal)
      of INFLOW structure #1
24 16 !name of canal or grid cell location (col row) depending
      on option for INFLOW structure #1
1 1 !number of recipients of flow thru INFLOW structure #3;
      option for type of recipient (1 - grid cell , 0 - canal)
      of INFLOW structure #3
24 14 !name of canal or grid cell location (col row) depending
      on option for INFLOW structure #3
1 1 !number of recipients of flow thru INFLOW structure #4;
      option for type of recipient (1 - grid cell , 0 - canal)
      of INFLOW structure #4
24 13 !name of canal or grid cell location (col row) depending
      on option for INFLOW structure #4
BEGCOMM-----
      DATA FOR OUTFLOW STRUCTURES
ENDCOMM-----
2 !number of OUTFLOW structures
PBUFO1 PBUFO2 !name assigned to each OUTFLOW structure
GEN GEN !identification of type of code used in simulating structure
      flow (GEN - use general code , SPC - use special code)
225.0 675.0 !discharge coefficient for each OUTFLOW structure
7.40 7.10 !crest elevation of each OUTFLOW structure(ft NGVD)
0.0 0.0 !exponent in equation to determine capacity of each OUTFLOW
      structure
1.0 1.0 !depth of water above the minimum stage allowed for OUTFLOW
      design discharges occur (used for calculation of available
      storage in reservoir for structural INFLOW)
NORES NORES !name of downstream reservoir (NORES means no reservoir is
      recipient of OUTFLOW from structure)
GRAVITY GRAVITY !type of OUTFLOW thru structure (GRAVITY - gravity OUTFLOW,
      PUMPED - pumped OUTFLOW)
FLDC FLDC !purpose of OUTFLOW thru each structure (FLDC - flood control,
      WSPLY - water supply to meet urban or agric demands)
NOTRG NOTRG !identification of stage target trigger (NOTRG means have no
      stage trigger as condition for OUTFLOW)
.
.

```

Note: Text has been wrapped to fit comments

V3.7

reservoir_input.dat

```
.
.
.
BEGCOMM-----
INPUT DATA BELOW FOR OUTFLOW STRUCTURES DISCHARGING FOR
WATER SUPPLY PURPOSES(WSPLY is input for purpose of OUTFLOW)
IF NO STRUCTURES ARE FOR WATER SUPPLY PURPOSES,THEN NO
INPUT IS NEEDED.
ENDCOMM-----
BEGCOMM-----
End of DATA for structures for WATER SUPPLY Purposes.
ENDCOMM-----
BEGCOMM-----
BELOW IS MORE DETAILED INFORMATION NEEDED
TO APPROPRIATELY ROUTE WATER THRU THE
OUTFLOW STRUCTURES
ENDCOMM-----
1 1 !number of upstream points of flow thru OUTFLOW structure #1;
option for origin of flow (1 - grid cell , 0 - canal) for
OUTFLOW structure #1
24 14 !name of canal or grid cell location (col row) depending on
option for origin of flow thru OUTFLOW structure #1
1 1 !number of recipients of flow thru OUTFLOW structure #1;
option for type of recipient (1 - grid cell , 0 - canal) of
OUTFLOW structure #1
23 14 !name of canal or grid cell location (col row) depending on
type of recipient for OUTFLOW structure #1
1 1 !number of upstream points of flow thru OUTFLOW structure #2;
option for origin of flow (1 - grid cell , 0 - canal) for
OUTFLOW structure #2
24 13 !name of canal or grid cell location (col row) depending on
option for origin of flow thru OUTFLOW structure #2
1 1 !number of recipients of flow thru OUTFLOW structure #2;
option for type of recipient (1 - grid cell , 0 - canal) of
OUTFLOW structure #2
23 13 !name of canal or grid cell location (col row) depending on
type of recipient for OUTFLOW structure #2
```

BEGCOMM-----

This file contains input data for structures simulated in ROUTE subroutine. ROUTE subroutine computes discharges for structures that are dependent on stages at one or group of grid cells. Only structures discharging from areas outside the WCAs (e.g. S-8,S-140A,S-3) are included.

The Input Data for each structure comprises the following:

record#1: character id of structure(max 6 characters)
 option indicating if additional data need to be input(DATA-need additional data
 NODATA-no additional data
 name of STA flow generally goes to
 NOSTA means NO STA
 record#2: option for code used (GEN - general code
 which applies to all GEN structures,
 or SPC - special code unique to structure)
 discharge coefficient
 exponent used in discharge coefficient
 note: discharge = discharge coeff * (hw - tw) * exponent
 record#3: option for headwater (1 - grid cell,0 - canal)
 record#4: identification of headwater
 if option is 1, (col,row) of grid cell
 if option is 0, canal name (5 characters)
 record#5: identification of tailwater
 if option is 1, (col,row) of grid cell
 if option is 0, canal name (5 characters)
 record#6: number of breakpoints in nodal stages used
 in calculating discharge; breakpoint stages(ft NGVD)
 record#7: number of breakpoints in canal stages used
 in calculating discharge; canal stages(ft. NGVD)
 record#8: number of additional canals used as triggers
 for outflow; names of the canals
 record#9: number of additional grid cell locations used
 as triggers for outflow; (col,row) of grid locations
 record#10: number of additional structures whose outflow
 help dictates the outflow of structure; names of
 the additional structures

ENDCOMM-----

BEGCOMM-----

DATA

ENDCOMM-----

~~20~~ 21

!number of structures simulated in ROUTE subroutine

.
 .
 .

BEGCOMM-----

S-357

ENDCOMM-----

S357 DATA NOSTA

SPC 400.0 0.0 PUMP

0

RESC

0

L31NC

3 6.5 5.5 5.0

2 6.5 4.5

0

2 26 18 26 17

0

BEGCOMM-----
 DATA INPUT REQUIRED FROM WCAOUT SUBROUTINE
 NOTE: THE NAMES ASSIGNED TO ALL STRUCTURES
 INPUT IN THIS FILE MUST APPEAR IN THE
 MASTER LIST OF STRUCTURE NAMES IN
 LECDEF FILE.
 ENDCOMM-----

.
 .
 BEGCOMM-----

DATA SPECIFICALLY FOR WATER CONSERVATION AREA 3A
 ENDCOMM-----

WCA3A !name of WCA (max 5 characters)

BEGCOMM-----
 Input data so Model can compute available water
 to meet LEC Demands and LEC Demands to be met
 by WCA. For WCA the Data is input for
 each of interior canals simulated.
 ENDCOMM-----

BEGCOMM-----
 WCA-3A Conveyance Canal
 ENDCOMM-----

1	C304	!number of canals receiving water supply directly from WCA-3A ; names of canals
2	S8 S150	!number of inflow structures for WCA-3A contributing water for water supply to LEC Service Area (backflow from S9 and portion of S-11 flow directly into WCA-3A conveyance canal is handled internally in model and need not be input) ; names of structures

BEGCOMM-----
 OUTFLOW Structure Data for each structure will contain general information
 applicable to all the outflow structures from WCA followed by structure
 specific data. BELOW are data for the outlet structures from WCA-3A
 ENDCOMM-----

BEGCOMM-----
 General Information for WCA-3A OUTLET Structures
 ENDCOMM-----

7 ⁸	1	!number of outlet structures simulated for WCA-1-FREE Format !priority option for meeting water supply needs in LECSA (1 - prorating, equal adversity, 0 - priority in order structures are simulated)
	10.0	- FREE Format !minimum stage (ft NGVD) conveyance canal is allowed for regulatory releases (non rain driven operations only)

BEGCOMM-----
 Specific Information for WCA-3A OUTLET Structures
 ENDCOMM-----

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ENDCOMM-----

S345 SPC REG

!character id of structure(max 6 characters); type of code used to simulate structure(GEN - general code common to structures simulated with code, SPC - code is unique to structure); option in operation of structure (ENV - rain-driven operations, REG - calendar based operational schedule): FORMAT(A6,2(2X,A3))

BEGCOMM-----

The following names of components of outflow are needed ONLY IF general code is used to simulate operations of structure

ENDCOMM-----

BEGCOMM-----

End of Names of Components of Outflow

ENDCOMM-----

0					!option for headwater (0 - canal,1 - grid cell) - FREE Format.
CA3					!Upstream canal name(max 5 characters) if option for headwater is 0, (col,row) if option is 1 (FORMAT (2I5)).
1					!option for tailwater (0 - canal,1 - grid cell) - FREE Format.
24	26				!Downstream canal name (max 5 characters) if option for TW is 0, (col,row) if option is 1 (FORMAT (2I5)).
3	MIAMI				!LEC service area served by structure(1-SA1,2-SA2, 3-SA3; name of EAA conduit used to bring runoff/LOK water directly or indirectly to structure(max 5 characters)
1500.	-901.				!Discharge Coefficient(-901 input if data not needed); exponent used in discharge equation - FREE Format
0					!option for tailwater constraint trigger (1-trigger is grid cell(s),no of cells and corresponding col,row must be input in next record in addition to maximum downstream canal stage, 0-trigger is canal which is assumed to be the same as TW)
999.					!Maximum Downstream stage (ft NGVD) allowed for outflow (999 means no maximum stage is used) - FREE Format
-901.	1.0				!Design Capacity (cfs) of structure ; Multiplier for the structure capacity (1.0 - use present capacity, > 1.0 - if proposed capacity is greater than present capacity, < 1.0 - if proposed capacity is less than present capacity)
0					!Number of breakpoints in stage used in simulated operation of structure(FORMAT (I3); The breakpoint stages (ft NGVD) - FREE Format
0					!Number of canals immediately downstream receiving water supply discharges from structure ; names of the canals - FORMAT(I5,<number of canals>(2X,A5))
NORES					!Name of Reservoir(Max 6 characters) that could limit discharge from structure
NOTRG					!Name of upstream target area for environmental (rain driven) operations (NOTRG means no stage target is used)
0					!Number of Environmental (presently NSM) target areas met by structure :FORMAT(I5) ,character ids of the target areas: FORMAT (<number of target areas>(2X,A5))
CA3					!name of upstream conveyance canal in WCA delivering water thru structure(max 5 characters)
0					!Number of additional canals triggering operations of structure; names of the canals - FORMAT (I5,<no of additional canals>(2X,A5))
2	25	27	24	26	!Number of additional grid locations used in determining discharge; location (col,row) of cells - FREE Format
0					!Number of additional structure flows directly used in determining discharge; names of the structures - FORMAT (I5,<no of additional strucs>(2X,A5))

BEGCOMM-----

THIS FILE CONTAINS THE KNOWN FLOW SPECIFICATION DATA. THESE DATA ARE USED TO ROUTE MEASURED (HISTORICAL) DISCHARGES OR SIMULATED DISCHARGES COMPUTED IN ROUTE, LAKEWCA, AND WCAOUT SUBROUTINES TO APPROPRIATE LOCATIONS SPECIFIED IN DATA BELOW. EACH STRUCTURE CONTAINS TWO OR MORE RECORDS OF DATA, DEPENDING ON THE NUMBER OF DESTINATION POINTS. THE TWO RECORDS DESCRIBED BELOW REPEAT FOR EACH DESTINATION POINT OF FLOW.

FIRST RECORD CONTAINS:

- 1. STRUCTURE IDENTIFICATION (MAX 6 CHARACTERS)
- 2. FLOW OPTION: 1 - TO A GRID CELL
 - 2 - TO A CANAL
 - 3 - GRID CELL TO GRID CELL
 - 4 - GRID CELL TO CANAL
 - 5 - CANAL TO GRID CELL
 - 6 - CANAL TO CANAL
 - 7 - BASIN TO CANAL
 - 8 - BASIN TO GRID CELL

OPTIONS 7 AND 8 ARE RESERVED FOR STRUCTURES ROUTING WATER TO/FROM AGRICULTURAL BASINS

- 3. NUMBER OF DESTINATION POINTS OF FLOW

FORMAT IS (A6,2x,2I5).

DATA INPUT FOR THE SECOND RECORD FOR STRUCTURE DEPEND ON THE FLOW OPTION INPUT IN FIRST RECORD.

THE SECOND RECORD CONTAINS THE FOLLOWING:

- IF FLOW OPTION IS 1: GRID LOCATION OF DESTINATION OF FLOW (COL ROW)
 - FORMAT (5x,2i5)
- 2: CHARACTER IDENTIFICATION OF CANAL DESTINATION
 - FORMAT(5x,A5)
- 3: GRID LOCATION OF SOURCE OF FLOW (COL ROW) AND DESTINATION OF FLOW (COL ROW)
 - FORMAT(5x,4I5)
- 4: GRID LOCATION OF SOURCE OF FLOW (COL ROW) AND NAME OF DESTINATION CANAL
 - FORMAT(5x,2i5,2x,A5)
- 5: NAME OF SOURCE CANAL AND GRID LOCATION (COL ROW) OF DESTINATION OF FLOW
 - FORMAT(5x,A5,2x,2i5)
- 6: NAME OF SOURCE AND NAME OF DESTINATION CANAL
 - FORMAT(5x,A5,2x,A5)
- 7: HYDROLOGIC BASIN NUMBER ASSIGNED TO BASIN(e.g. 7 FOR MIAMI CANAL BASIN IN EAA) AND NAME OF DESTINATION CANAL.
 - FORMAT(5x,I5,2x,A5)
- 8: HYDROLOGIC BASIN NUMBER ASSIGNED TO BASIN(e.g. 7 FOR MIAMI CANAL BASIN IN EAA) AND GRID LOCATION OF FLOW DESTINATION (COL ROW)
 - FORMAT(3i5)

ENDCOMM-----

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