The Cerefy
Brain Atlas Geometrical Models
Version 3.0

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Thieme Publishers, Stuttgart-New York

Singapore, 2009

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1. Definitions and Features

The Cerefy Brain Atlas Geometrical Models (C-BAGM) is a library which provides the user with suitable data and information for construction of his/her own two-dimensional (2D) or three-dimensional (3D) brain atlas-based applications.

C-BAGM has three major components:

- C-BAGM 2D Viewer.
- C-BAGM 2D Data
- C-BAGM 3D Data

C-BAGM 2D Viewer allows the user to display:

- 2D SW contours.

C-BAGM 2D Data contain:

- 2D axial, coronal, and sagittal contours of the electronic version of the Schaltenbrand-Wahren (SW) brain atlas, as specified in Appendices A1 and A2. The electronic version of the SW atlas [1,2] has been derived from the printed version of the SW atlas [11].
- There are two types of 2D SW contours:
  - Regular contours corresponding to those in the original atlas used for segmentation and labeling as specified in Appendices A1 and A2
  - Labeling contours, originally not available in the printed atlas, introduced to label those structures which are not segmented in the original atlas. These axilary contours are listed in Appendix A3.

C-BAGM 3D Data contain:

- 3D polygonal models of the electronic SW brain atlas as specified in Appendix B. The construction of the SW polygonal models has been addressed in [2].
- 3D polygonal models of the electronic Talairach-Tournoux (TT) brain atlas as specified in Appendix C. The electronic version of the TT atlas [1,2] has been derived from the printed version of the TT atlas [12]. The construction of the TT polygonal models has been addressed in [2].

Note that the 2D viewer itself in neither part of the brain atlas data nor a component of user's application. The viewer mainly provide means for browsing and understanding the 2D SW Contour Data, and facilitate the user to build his/her own atlas-assisted applications. The potential use of the C-BAGM Data is illustrated in [2-10].

2. C-BAGM 2D Viewer (Windows only)

2.1 Overview

C-BAGM 2D Viewer provides a new tool (developed specially for C-BAGM ver 2.0) that allows for displaying the 2D SW contours. The viewer allows the user to display and label all structures of any single plate from any of the three orientations (axial, coronal and sagittal). For every 2D SW contour plate, a corresponding 2D SW image plate is shown at the background. This is to facilitate the user to comprehend the contours better.

The user interface has three major components

- main view (2D contours and images are shown)
- control panel (basic functions are provided)
- anatomical index (a list of color-coded names are shown in the index corresponding to all the structures available in the chosen plate shown in the main view) along with its update with respect to version 1.0; to facilitate the updates made:

  Yellow denotes no update.
  Red denotes contour(s) that are meant for labeling only (see Appendix A3).
  Green denotes a new structure that has been added, taken from the existing contour by sub-dividing it.
  Blue denotes a name change; and
  Orange denotes labeling contour(s) whose name is changed.

2.2 Functions

The viewer provides five basic functions.

- Select contour orientation
- Scroll contour along with image within orientation
- Blend contour against image
- Label structure
- Clear label

Select contour orientation

Three buttons are provided to select the orientation:

- “Axial” (loads the axial data)
- “Coronal” (loads the coronal data)
- “Sagittal” (loads the sagittal data).

Scroll contour along with image within orientation

Three operations are provided for contour-image navigation:

- “Forward” (the next plate is displayed)
- “Backward” (the previous plate is displayed)

- “Goto” a selected image.

Blend contour against image
- This operation controls the transparency of the contours.

Label structure
There are two ways to label a structure:
- Find structure (click on the anatomical index to locate the structure in the main view)
- Get Name (click on the structure in the main view to get its name)

Clear label
Clears the highlight structure and its name.

2.3 System Requirement

The viewer is supported only on Windows. To run the 2D viewer, run “C-BAGM_2D_Viewer.exe” located under /C-BAGM 3.0/2D_VIEWER/

Note: make sure your monitor is set to 1280x1024 pixels.

3. C-BAGM 2D Data

All 2D SW contour files are arranged in a plate-centric fashion. The contours have been greatly enhanced and the database modified from its previous version (see Sections 6, 7, and Appendix A2). To view the 2D contours, see Section 2 of this document (C-BAGM 2D Viewer).

Note: The electronic 2D SW atlas have been built based on the original printed material as described in Section 1, i.e., the authors have not created any new atlases, but just developed electronic, extended and enhanced versions of the original printed atlases. Therefore, any defects and inaccuracies in the original printed material may be inherited in their electronic versions.

3.1 2D SW Contours

3.1.1 Overview

The contour file contains the sets of points forming the contour (or contours) for each structure available in a particular plate. Rendering the contour involves rendering a closed line loop with set of 2D points read from the contour file.

3.1.2 Contour Files

The contour files have been generated for axial (horizontal), coronal (frontal) and sagittal orientations. For a detailed description on the SW contours, see Appendices A1, A2, A3.

Note 1: Many structures labeled but not contoured in the printed SW atlas are additionally included into the contour files; see Appendix A3 for the list of them.

Note 2: Some structures in the printed SW atlas are labeled with multiple labels. Each multiple label (i.e., that label which components are connected with a sign "+") is included into the extended anatomical index as a separate item.

Shown below in the table are the resolutions of the 2D SW atlas images for all three orientations.

Atlas	**Orientation**	**Resolutions (WxH) in pixels**	
SW	Axial (Horizontal)	High	716 x 566
SW	Coronal (Frontal)	High	662 x 571
SW	Sagittal	High	864 x 946

All data are under (see Appendix D):
Axial 2D contours -- /C-BAGM 3.0/2D_DATA/SW.MICRO.HORIZONTAL/
Coronal 2D contours -- /C-BAGM 3.0/2D_DATA/ SW.MICRO.FRONTAL/
Sagittal 2D contours -- /C- BAGM 3.0/2D_DATA/ SW.MICRO.SAGITTAL/

3.1.3 File Format

The file format for the 2D SW atlas is the following.

Format for Contour File

```
/* Slice Number where this contour is to be drawn */
int slice

/* Z- Map in float */
float Z-map

/* Name of the contour */
Char *Name

/* Number of points in contour */
int numPoints

/* Actual points in X,Y */
        X1, Y1
        X2, Y2
        .....
        .....
        Xn, Yn
```

4. C-BAGM 3D Data

All 3D geometrical models are under /C-BAGM 3.0/3D_DATA, see Appendix C and D. The 3D models are in standard .obj format. It is widely used format, easy to validate by most 3D viewing software. Some free 3D viewers which support the .obj format are MeshLab (meshlab.sourceforge.net), Deep Exploration (www.righthemisphere.com) and Blender (www.blender.org)

Note: The 3D SW and 3D TT atlases have been built based on the original printed material as described in Section 1, i.e., the authors have not created any new atlases, but just developed electronic, extended and enhanced versions of the original printed atlases. Therefore, any defects and inaccuracies in the original printed material may be inherited in their electronic versions.

4.1 3D SW Models

4.1.1 Overview

The 3D SW files are under /C-BAGM 3.0/3D_DATA/3DSW. Each file is in .obj format.

4.1.2 File Format

The file format for the 3D SW atlas is as follows.

Syntax	Semantic
v *x y z*	Vertex point, where x, y, z are floating numbers
vn *x y z*	Normal vector, x, y, z are floting numbers
f *n1 n2 n3*	A triangle, n1, n2, n3 are positive integers indicating the vertex indices;
g *group-name*	Represents a group of graphics element with given name;
# *comments*	Is a comment line, will not be processed by standard .obj file interpreters;

- In .obj files, the array index starts from.

- A comment line will be put at the beginning of the .obj file to indicate if the origin is the AC point. In case AC is not defined, center point of the volume will be used as origin. If this line is not found at the beginning of the file, ORIGIN=AC is assumed.

  # ORIGIN=AC
  or
  # ORIGIN=VOLUME_CENTRE

- Orientation of data will follow the LAS convention (that is, x->Left, y->Anterior, z->Superior), origin at AC or VOLUME_CENTRE.

4.2 3D TT Models

4.2.1 Overview

The 3D TT files are under /C-BAGM 3.0/3D_DATA/3DTT. Each file is in .obj format.

4.2.2 File Format

See section 4.1.2

5. Difference in labeling between C-BAGM 1.0 and the current version

The enhancements to structure labeling done in the current version aimed to correct errors in previous version as well as to make it closer to the original material. Two errors only have been spotted and corrected: 1) on the coronal slice Fp 16.5 Ru.pc has been substituted by Rt.pu, and 2) on the sagittal slices S 9.0 (left and right) the more ventral of the two Rt.po contours has been changed to B.co.i. Several structures in the original atlas are labeled with the dominant label and some other labels. These additional labels have been included in the current version. Consider, for instance, the caudatum on the coronal slice 13.5. It is labeled as Cd in version 1.0 and as Cd+Po.st, i.e., along with the pontes striatales, in the current version. In addition, some compound structures, labeled in version 1.0 by their super structure name, are labeled in the current version by their components. For instance the corpus callosum, labeled in version 1.0 as C.c on several plates (e.g., plate S 9.0), is labeled in the current version with its components C.c.g+C.c.r+C.c.spl+C.ctr (e.g, plate S 9.0), similarly as in the original printed atlas. The difference in labeling between 1.0 and the current version are summarized in Tables 1 (axial orientation), 2 (coronal orientation) and 3 (sagittal orientation). Table 3 lists the changes for the left hemisphere only, and the right hemisphere plates shall be updated in a symmetrical way.

Table 1: Difference in labeling between 1.0 and the current version: axial orientation

Atlas plate	Old label (version 1.0)	New label (current version)
Hd +9.5	La.m	La.m.ip+c+o
Hd +8.0	La.m	La.m.ip+c+o
Hd +7.0	La.m.ip+La.m.o	La.m.ip+o
Hd +6.5	Ce	Ce.pc
Hd +6.5	La.m.ip+La.m.o	La.m.ip+o
Hd +3.5	Ve.l	Ve.l+Fi.cb.m.B
Hd +3.5	Co+Edy+FM+sHb+S.p	Co+Edy+F.M+sHb+S.p
Hd +1.5	Rt	Rt+Rt.pu
Hd +0.5	Rt	Rt+Rt.pu
Hd +0.5	V.c.pc	V.c.pc.e+i
Hd +0.5	B.co.i	B.co.s
Hv -1.0	A.aq	Aq
Hv -1.5	V.c.pc.i	V.c.i+V.c.pc.i
Hv -1.5	Ru	F.M+Ru
Hv -4.5	Cd+Put	Cd+Fu.st+Put

Table 2: Difference in labeling between 1.0 and the current version: coronal orientation

Atlas plate	Old label (version 1.0)	New label (current version)
Fa 13.5	Cd	Cd+Po.st
Fa 13.5	Str.sep	Str.sep+St.t
Fa 11.5	L.h	L.h+Pd.th.if
Fa 11.5	If	If+Dm
Fa 11.5	La.m.c	broken into La.m.c and La.m
Fa 11.5	Cd+Put	Cd+Po.st+Put
Fa 7.5	S.pv	S.pv+St.t
Fa 5.5	A.p.l	A.p.l+A.p.v
Fa 5.0	Cd+Put	Cd+Po.st+Put
Fa 5.0	An.pd	An.pd+La.p.li
Fa 5.0	Tm	Cm.sII+Tm
Fa 4.0	La.p.l	broken into La.p.l and La.p.m
Fa 4.0	S.pv	Co+S.pv+Pt
Fa 4.0	Alv	Alv+Str.m.p
Fa 3.0	L.h	Dm+L.h
Fa 3.0	S.pv	Co+S.pv+Pt
Fp 4.0	Ru	Ru+F.M
Fp 5.0	Rt.c	Rt.im
Fp 5.0	Ru	Ru+F.M
Fp 7.0	Ru	Ru+F.M
Fp 10.0	Fi.fx	Fi.fx+Alv
Fp 13.0	L.m	L.m+L.l
Fp 13.0	Fi.fx	Fi.fx+Alv
Fp 14.0	Rt.pu	Rt.pu+prG
Fp 14.0	La.m.c	broken into La.m and La.m.c
Fp 14.0	L.m	L.m+L.l
Fp 16.5	Ru.pc	Rt.pu
Fp 16.5	Fi.fx	Fi.fx+Alv

Table 3. Difference in labeling between 1.0 and the current version: sagittal orientation

Atlas plate	Old label (version 1.0)	New label (current version)
Sl 20.0	D.im.i+Z.im	D.im+Z.im
Sl 20.0	Alv+Fx.p+La.m.sf	Alv+Fx.p+La.m.p
Sl 17.0	C.c	C.c.spl+C.c.tr
Sl 17.0	P.m.i	P.m.e+P.m.i
Sl 17.0	A.tb	A.tb+B
Sl 17.0	Fx	Fx+Fim
Sl 16.0	C.c	C.c.spl+C.c.tr
Sl 16.0	An.l+La.p.li+P	An.l+La.p.li+P.m
Sl 14.5	C.c	C.c.spl+C.c.tr
Sl 13.0	C.c	C.c.g+C.c.r+C.c.spl
Sl 13.0	V.c.pc.i	V.c.pc
Sl 12.0	C.c	C.c.g+C.c.r+C.c.spl
Sl 12.0	Fx	Fx+Fim
Sl 12.0	r(=C.c.r)	C.c.r
Sl 10.5	C.c	C.c.g+C.c.spl
Sl 10.5	Li+Pul.l	Li
Sl 10.5	Cd	Cd+Fu.st
Sl 9.0	Rt.po	broken into Rt.po and B.co.i
Sl 9.0	C.c	C.c.g+C.c.r+C.c.spl+C.c.tr
Sl 6.5	C.c	C.c.r+C.c.spl+C.c.tr
Sl 6.5	Str.sf	Str.sf+Ar
Sl 6.5	Cd	Cd+Fu.st
Sl 6.5	Ol.i	Ol.i+Hi
Sl 5.5	C.c	C.c.g+C.c.r+C.c.spl+C.c.tr
Sl 5.0	Ol.i	Ol.i+Hi
Sl 3.5	B+C.c+Hpth+II	B+C.c.g+C.c.r+C.c.spl+C.c.tr+Hpth+II
Sl 3.5	Ol.i	Ol.i+Hi
Sl 2.5	C.c	C.c.r+C.c.spl+C.c.tr
Sl 2.5	St.m	St.m+Cm.hb
Sl 2.5	X.d.m	X.d.m+Str.ac
Sl 2.5	A.pol	A.pol+Pth.p.v
Sl 1.5	C.c	C.c.r+C.c.spl+C.c.tr
Sl 1.5	Fx	Fx.lb+Fx.tc
Sl 1.5	Gr.po	Gr.po+Str.m+Str.p+Str.sf
Sl 1.5	Ru.pc	Ru.mc+Ru.pc

6. Differences between the original SW atlas and the current version

The major difference between the original Schaltenbrand-Wahren (SW) atlas and the current version is in closing several contours which are open in the original atlas. Some of the contours have been closed based on the Schaltenbrand-Bailey (SB) atlas. Contour closing facilitates an automatic generation of color-coded atlas (by filling the contour in) and interactive labeling (by identifying the contour containing the pointed location). In addition, a single contour inaccuracy has been spotted (but not corrected) for the recessus praeopticus (R.prO) on the coronal plate Fa 13.5. The differences in contouring and labeling between the original SW atlas and the current version are summarized in Tables 4 (axial orientation), 5 (coronal orientation), and 6 (sagittal orientation). Table 6 lists the differences for the left hemisphere only, and the right hemisphere plates shall be updated in a symmetrical way.

Table 4. Differences between original SW and the current version: axial orientation

Atlas plate/structure(s)	**SW**	**C-BAGM (current version)**
Hd +1.5/V.o.a, Vo.m, V.o.p	contours not closed	contours closed based on the SB atlas
Hd + 1.5/ Co+Edy+F.M+sHb+S.p	contoured	not contoured
Hd +1.5/ A.prtc+B.co.s+Co.s+Cm.p	contoured as one structure	broken into two contours: B.co.s and A.prtc+Co.s+Cm.p
Hd +0.5/F.M	contour not closed	contour closed
Hd +0.5/F.Fo	contour not closed	contour closed
Hd +0.5/B.co.s	contour not closed	contour closed
Hd +0.5/Rt.pu	contour not closed	contour closed
Hv -1.5/Cd, Put	Cd and Put not separated	Cd and Put separated
Hv -1.5/L.m	contour not closed	contour closed
Hv -1.5/B.co.s, Z.i	B.co.s and Z.i not separated	B.co.i and Z.i separated
Hv -3.5/Cd, Put	Cd and Put not separated	Cd and Put separated
Hv -4.5/Q+Z.i	contour not closed	contour closed
Hv -4.5/L.m	contour not closed	contour closed
Hv -6.0/L.m	contour not closed	contour closed
Hv -6.0/St.t	contour not closed	contour closed
Hv -9.5/A.tr.W	contour not closed	contour closed

Table 5. Differences between original SW and the current version: coronal orientation

Atlas plate/structure	SW	C-BAGM (current version)
Fa 16.5/Cd+Fu.st+Put	contoured as one structure	contoured as one and additionally three individual structures Cd, Fu.st, and Put
Fa 16.5/Fx.lo	contoured	not contoured
Fa 13.5/C.c	contour not closed	contour closed
Fa 13.5/R.prO	contoured	upper part of the contour contains additional, originally unlabeled structure
Fa 13.5/Fx.lb.g	contoured	not contoured
Fa 11.5/C.c	contour not closed	contour closed
Fa 13.5/Fx	labeled but not fully contoured	not contoured
Fa 11.5/C.c	contour not closed	contour closed
Fa 11.5/Cd+Po.st+Put	contoured as one structure	contoured as one structure and additionally as two individual structures Cd and Put
Fa 7.5/C.c	contour not closed	contour closed
Fa 7.5/Cp.i.g	contour not closed	contour closed
Fa 7.5/La.p.i	contour not closed	contour closed
Fa 5.5/Cp.i.g	contour not closed	contour closed
Fa 5.5/C.c	contour not closed	contour closed
Fa 5.5/A.p.l, A.p.v	contoured as one structure	contoured as two structures
Fa 5.0/Cd+Po.st+Put	internal contour exists	internal contour missing
Fa 2.0/Ve.l	body contoured	body not contoured
Fp 1.5/D.o.e+Z.o	contoured as one structure	contoured as two structures (based on the SB atlas)
Fp 3.0/D.o.e+Z.o	contoured as one structure	contoured as two structures (based on the SB atlas)
Fp 4.0/C.c+Fx	contoured as one structure	contoured as one structure and, additionally, C.c is contoured
Fp 4.0/D.im.i+Z.im	contoured as one structure	contoured as two structures D.im.i+Z.im.i (based on the SB atlas)
Fp 4.0/D.im.e+Z.im	contoured as one structure	contoured as two structures D.im.e+Z.im.e (based on the SB atlas)
Fp 5.0/C.c+Fx	contoured as one structure	contoured as one structure and, additionally, C.c is contoured

Table 6. Differences between original SW and the current version: sagittal orientation

Atlas plate/structure	SW	C-BAGM (current version)
Sl 20.0/C.c.spl+C.c.tr	contoured as one structure	contoured as two structures
Sl 20.0/Cp.i.a	has several contours within Cd+Put	no contours within Cd+Put
Sl 17.0/Cp.i.a	has several contours within Cd+Fu+Put	no contours within Cd+Fu+Put
Sl 17.0/ An.l+La.p.li+La.p.m	contoured as one structure	contoured as two structures, An.l+La.p.li and La.p.m
Sl 16.0/Cp.dt	contoured	not contoured
Sl 16.0/Sb.m.lb.or	contour not closed	contour closed
Sl 14.5/B.co.s	contoured	not contoured
Sl 14.5/La.p.li	contour not closed	contour closed
Sl 10.5/Ni	contour not closed	contour closed
Sl 6.5/Gr.po	contour not closed	contour closed
Sl 6.5/T.csp	contour not closed	contour closed
Sl 5.5/Gr.po	contour not closed	contour closed
Sl 3.5/Fx.lb+Fx.tc+M.m	contour not closed	contour closed
Sl 1.5/ Gr.po+Str.m+Str.p+Str.sf	contour not closed	contour closed
Sl 1.5/T.csp	contour not closed	contour closed
Sl 1.5/A.pol	contour not closed	contour closed

Appendix A1: List of the SW Plates for which the Contour Files are available

The names of the plates correspond to those in the printed atlas.

	Axial Orientaion	Coronal Orientation	Sagittal Orientation
1	Hd+16.0	Fa16.5	Sr27.5
2	Hd+14.0	Fa13.5	Sr24.5
3	Hd+12.5	Fa11.5	Sr22.0
4	Hd+9.5	Fa7.5	Sr20.0
5	Hd+8.0	Fa5.5	Sr17.0
6	Hd+7.0	Fa5.0	Sr16.0
7	Hd+6.5	Fa4.0	Sr14.5
8	Hd+4.0	Fa3.0	Sr13.0
9	Hd+3.5	Fa2.0	Sr12.0
10	Hd+2.0	Fp1.5	Sr10.5
11	Hd+1.5	Fp3.0	Sr9.0
12	Hd+0.5	Fp4.0	Sr6.5
13	Hv-0.5	Fp5.0	Sr5.5
14	Hv-1.0	Fp7.0	Sr5.0
15	Hv-1.5	Fp9.0	Sr3.5
16	Hv-3.5	Fp10.0	Sr2.5
17	Hv-4.5	Fp13.0	Sr1.5
18	Hv-6.0	Fp14.0	Sl1.5
19	Hv-8.5	Fp15.5	Sl2.5
20	Hv-9.5	Fp16.5	Sl3.5
21			Sl5.0
22			Sl5.5
23			Sl6.5
24			Sl9.0
25			Sl10.5
26			Sl12.0
27			Sl13.0
28			Sl14.5
29			Sl16.0
30			Sl17.0
31			Sl20.0
32			Sl22.0
33			Sl24.5
34			Sl27.5

Appendix A2: 2D SW Contour List

SW.MICRO.HORIZONTAL.LXXVIII

1 A.aq	61 F.M(=T.M)+Ru	121 Pu.sf
2 A.d	62 Fa	122 Pu.v
3 A.m	63 Fi.cb.m.B	123 Put(=Pt)
4 A.pbg.p	64 Fi.fx	124 Q+Z.i
5 A.pol	65 Fo(=Fx)	125 Ra.prl
6 A.pr	66 Fu.st(=Fu.str)	126 Rt
7 A.prtc+Co.s+Cm.p(=Cm.d)	67 Fu.st(=Fu.str)+Gr.se	127 Rt.po+Rt.pu
8 A.tr.W(=A.W)	68 Fu.st(=Fu.str)+St.t	128 Rt.pu
9 A.W(=A.tr.W)	69 Fx(=Fo)	129 Rt+Rt.pu
10 Alv	70 Fx.p	130 Ru
11 Aq	71 G.cm	131 sA
12 Aq+Ve.t(=Ve.III)	72 G.l	132 Sb.m.lb.fr
13 B	73 G.m	133 St.m
14 B.cj(=Pd.cbl.s)	74 G.r	134 St.t
15 B.co.s	75 Gr.se	135 St.t+Cd
16 C.c	76 H1+H2	136 Sth
17 C.c.g	77 Hb	137 Str.pd.i
18 C.c.r	78 II	138 Str.z(=St.z)
19 C.c.sp(=c.c.spl)	79 II+SII	139 Su.ig
20 Cd	80 L.m	140 T.l
21 Cd+Fu.st(=Fu.str)	81 La.m.ip+c+o	141 T.mth(=V.d'A)
22 Cd+Fu.st(=Fu.str)+Gr.se	82 La.m.ip+o	142 V.c
23 Cd+Fu.st(=Fu.str)+St.t	83 La.m.o	143 V.c.a.e
24 Cd+Fu.st+Put(=Pt)	84 La.p.i	144 V.c.e
25 Ce	85 La.p.l	145 V.c.i
26 Ce.mc	86 La.p.m	146 V.c.i+V.c.pc.i
27 Ce.pc	87 Li	147 V.c.pc.e
28 Ci.am	88 Lpo	148 V.c.pc.e+i
29 Ci.am+Su.ig	89 Lpo.mc	149 V.c.pc.i
30 Ci.co	90 M	150 V.c.por(=V.por)
31 Cl	91 M.c	151 V.im
32 Cl.prA(=Cl.pra)	92 M.fa	152 V.im.e
33 Cl.sst	93 M.fi	153 V.im.i
34 Cl.tp(=Cl.t)	94 M.fi+Co	154 V.o.a
35 Cm.a	95 M.l	155 V.o.i
36 Cm.hb	96 M.m	156 V.o.m

37 Cn.A(=C.A.)	97 Ni	157 V.o.p
38 Co.i	98 P.l	158 V.o.p+Z.i.c
39 Co+Edy+F.M+sHb+S.pv	99 P.m	159 Ve.l
40 Co+Edy+S.pv+sHb	100 P.m.e	160 Ve.l+Fi.cb.m.B
41 Co+S.pv	101 P.m.i	161 Ve.t(=Ve.III)
42 Co+S.pv+Pt	102 Pf	162 Z.c.e
43 Cp.e	103 Po.st	163 Z.c.i
44 Cp.ex	104 Ppd	164 Z.i
45 Cp.i.a	105 Ppd+prG	165 Z.im.e
46 Cp.i.g	106 prG	166 Z.im.i
47 Cp.i.p	107 Ps.cor.r	167 Z.o
48 Cp.i.rl	108 Ps.l.p	168 Z.o.e
49 Cu	109 Ps.pd	169 Z.o.i
50 Cx.in	110 Pt	
51 D.c	111 Pt(=Put)	
52 D.im.e	112 Pt+St.m	
53 D.im.i	113 Pth(=Prth)	
54 D.im.s	114 Pu.ig	
55 D.o.e	115 Pu.l	
56 D.o.i	116 Pu.m	
57 D.sf	117 Pu.o.l	
58 F.Fo	118 Pu.o.m	
59 F.M(=T.M)	119 Pu.o.v	
60 F.M(=T.M)+Pf	120 Pu.sb	

SW.MICRO.FRONTAL.LXVIII

1 A.aq	71 Fx(=Fo)+St.t	141 Pu.m
2 A.d	72 Fx.lb	142 Pu.o.l
3 A.m	73 Fx.tc	143 Pu.o.m
4 A.p.i	74 G.cm	144 Pu.o.v
5 A.p.l	75 G.hp	145 Pu.sf
6 A.p.l+A.p.v	76 G.l	146 Put(=Pt)
7 A.p.m	77 G.m	147 Put(=Pt)+Po.st
8 A.p.v	78 G.m.mc	148 Put.li
9 A.pol	79 G.m+prG	149 Put.v
10 A.pr	80 G.po	150 Pv
11 A.sf	81 G.unc	151 R.prO
12 A.tb	82 Gr.po	152 Rt
13 A.tr.W(=A.W)	83 Gr.po+T.csp	153 Rt.c
14 Alv	84 Gr.se	154 Rt.im
15 Alv+Str.m.p	85 H2	155 Rt.po
16 An.l(=Ansl.l)	86 Hb	156 Rt.pu
17 An.l+An.pd+P.m.e+P.m.i	87 Ic	157 Rt.pu+prG
18 An.pd	88 If+Dm	158 Ru
19 An.pd+La.p.li	89 II	159 Ru+F.M
20 B	90 L.h	160 Rx.III
21 B.cj(=Pd.cbl.s)	91 L.h+Pd.th.if	161 S.pv+St.m
22 C.c	92 L.m+L.l	162 sA
23 C.c+Fo(=Fx)	93 La.m	163 Sb.m.lb.tp
24 Cd	94 La.m.c	164 sHb
25 Cd+Po.st	95 La.m.ip	165 SII
26 Cd+Po.st+Put(=Pt)	96 La.m.o	166 St.m
27 Cd+Put(=Pt)+Fu.st(=Fu.str)	97 La.p.i	167 St.t
28 Ce	98 La.p.l	168 St.t+Cd
29 Ce.mc	99 La.p.m	169 Sth
30 Ce.pc	100 Li	170 Str.sep
31 Ch.Il	101 Lpo	171 Str.sep+St.t
32 Cl	102 M	172 T.csp
33 Cl.in	103 M.b.p	173 T.l
34 Cl.prA(=Cl.pra)	104 M.c	174 T.mth(=V.d'A)
35 Cl.sst	105 M.c.e	175 T.tpptpo(=T.tppo)
36 Cm.a	106 M.c.i	176 Tm
37 Cm.sII+Tm	107 M.fa	177 V.c.a.e
38 Cn.A(=C.A.)	108 M.fa.p	178 V.c.a.i
39 Co.r(=Cor.r)	109 M.fa.s	179 V.c.e
40 Co+S.pv+Pt	110 M.fi	180 V.c.i

41 Cor.r	111 M.fi.p	181 V.c.pc.e
42 Cp.e	112 M.l	182 V.c.pc.i
43 Cp.ex	113 M.m	183 V.c.por(=V.por)
44 Cp.g.m	114 M.pl	184 V.im.e
45 Cp.i.a	115 Ni	185 V.im.i
46 Cp.i.g	116 Ni.c	186 V.o.a
47 Cp.i.p	117 Ni.r	187 V.o.i
48 Cp.i.rl	118 Ov	188 V.o.m
49 Cu	119 P.l	189 V.o.p
50 Cx.in	120 P.m	190 Ve.l
51 D.b.cj(=B.cj.d)	121 P.m.e	191 Vm
52 D.c	122 P.m.e+P.m.i	192 Z
53 D.h(=D)	123 P.m.i	193 Z.c
54 D.im.e	124 Pd.th.b(=Pd.th.if)	194 Z.c.e
55 D.im.i	125 Pf(1)	195 Z.c.i
56 D.o.e	126 Pf(2)	196 Z.i
57 D.o.i	127 Pm.c	197 Z.im.e
58 D.sf	128 Ppd	198 Z.im.i
59 D.sf.i	129 Ppd+Ni	199 Z.o
60 Dm+L.h	130 Ps.cor.r	
61 Edy	131 Ps.l.p	
62 F.M(=T.M)	132 Ps.l.sf	
63 F.unc	133 Ps.pd	
64 Fa	134 Pt	
65 Fi.cb.l	135 Pt(=Put)	
66 Fi.fx+Alv	136 Pt.ist	
67 Fi.ot(=Su.ot)	137 Pth.pr.d	
68 Fo(=Fx)	138 Pth.pr.l	
69 Fu.st(=Fu.str)	139 Pu.ig	
70 Fx(=Fo)	140 Pu.l	

SW.MICRO.SAGITTAL.LXXVIII

1 A.aq	61 Ci.am	121 Fx.lb+Fx.tc
2 A.d	62 Cl.in+Cl.sst+Lim.in	122 Fx.lb+Fx.tc+M.m
3 A.m	63 Cm.a	123 G(=F.G)
4 A.p.i	64 Cm.p(=Cm.d)	124 G.fus
5 A.p.i+A.p.l	65 Cm.sII	125 G.hp
6 A.p.l	66 Cn.A(=C.A.)	126 G.l
7 A.p.m	67 Cn.A(=C.A.)+Is.g.fc	127 G.m
8 A.p.v	68 Cng	128 G.r
9 A.p.v+A.sf	69 Co.i	129 G.unc
10 A.pol	70 Co.i+Co.s	130 Gr.cf.b.cj+L.mes
11 A.pol+G.or.m(=G.or.i)	71 Co.r(=Cor.r)	131 Gr.po
12 A.pol+G.r	72 Co.s	132 Gr.po+Lp.cp+Pr.tg(po)+Str.sf
13 A.pol+G.r+I	73 Coe	133 Gr.po+Lp.cp+Str.sf
14 A.pol+G.r+Ra.ol.m+Ra.ol.sf	74 Cp.dt	134 Gr.po+Pr.tg(po)
15 A.pol+Pth.p.v	75 Cp.e	135 Gr.po+Str.m+Str.p+Str.sf
16 A.pr	76 Cp.ex	136 Gr.se
17 A.prtc	77 Cp.i.a	137 H1+H2
18 A.tb	78 Cp.i.g	138 H2
19 A.tb+B	79 Cp.i.p	139 H2+T.mth(=V.d'A)+X
20 A.tr.W(=A.W)	80 Cu	140 Hb
21 Alv	81 Cx.in	141 He.cbl
22 Alv+Fx.p+La.m.p	82 D.b.cj(=B.cj.d)	142 Hi(Ol.i)+Ol.i
23 Amc	83 D.c+Z.c	143 Hpth
24 An.l(=Ansl.l)	84 D.im.e+Z.im	144 I
25 An.l(=Ansl.l)+La.p.l+La.p.li	85 D.im.e+Z.im.e	145 If
26 An.l(=Ansl.l)+La.p.li	86 D.im.i+Z.i.c	146 II
27 An.l(=Ansl.l)+La.p.li+P.m	87 D.im.i+Z.im	147 Ip
28 Ar	88 D.im.i+Z.im.i	148 Is.g.fc
29 Ar+Str.sf	89 D.im.s	149 IV
30 B	90 D.im+Z.im	150 L.h

31 B.cj(=Pd.cbl.s)	91 D.o.e+Z.o	151 L.m
32 B.cj.v	92 D.o.i+Z.c	152 La.m
33 B.cj.x	93 D.o.i+Z.o	153 La.m.c
34 B.co.i	94 D.o+Z.o	154 La.m.ip
35 B.co.i+B.co.s	95 D.sf	155 La.m.ip+La.m.o
36 B.co.s	96 D.sf+La.m	156 La.m.o
37 B.po(=Pd.cbl.m)	97 Dt	157 La.m.sf
38 B+C.c.g+C.c.r+C.c.spl+C.c.tr+Hpth+II	98 Dt+Hi(Dt)	158 La.p.l
39 C.c.g	99 Eb	159 La.p.li
40 C.c.g+C.c.r.+C.c.tr+C.c.spl	100 F.g(=F.G=G)	160 La.p.m
41 C.c.g+C.c.r+C.c.spl	101 F.M(=T.M)	161 Lb.a
42 C.c.g+C.c.r+C.c.spl+C.c.tr	102 F.m.po+L.m	162 Lb.p
43 C.c.g+C.c.spl	103 F.ol	163 Li
44 C.c.g+C.c.spl+C.c.tr	104 F.pce	164 Li.m
45 C.c.r	105 F.r	165 Li+M
46 C.c.r+C.c.spl+C.c.tr	106 Fa	166 Lim.in
47 C.c.sp(=c.c.spl)	107 Fb.f.po	167 Lp.cp
48 C.c.sp(=C.c.spl)	108 Fb.III+Ni	168 Lpo
49 C.c.spl+C.c.tr	109 Fi.cb.m.B	169 Lpo.mc
50 C.c.tr	110 Fi.cbl.cb	170 M
51 C.r(=Pd.cbl.if)	111 Fi.fx	171 M.c
52 Cd	112 Flnd	172 M.fa
53 Cd+Fu.st	113 Fo(=Fx)	173 M.fi
54 Cd+Fu.st(=Fu.str)	114 Fo.L+Ve.IV	174 M.l
55 Cd+Fu.st(=Fu.str)+Put(=Pt)	115 Fo.M(=Fo.Mo)	175 M.m
56 Ce	116 Fu.st(=Fu.str)	176 N.cm.p(=N.D)
57 Ce.i.tg	117 Fu.st(=Fu.str)+Put(=Pt)	177 N.VI(=VI)
58 Ce.mc	118 Fx(=Fo)	178 Ni
59 Ce.pc	119 Fx(=Fo)+Fim	179 Ni+Ip
60 Ch.Il	120 Fx(=Fo)+M.l	180 Ni+Ppd+Q

181 Ni+Ps.l.p	221 Pyr	261 T.tpo
182 Ni+Ps.l.sf	222 Ra.c.c	262 Tm
183 Ol.i	223 Ra.ol.p	263 Tm+II
184 Ol.i.d	224 Ra.prl	264 To
185 Ol.i.m	225 Rt	265 V.c.a
186 Ol.i+Hi	226 Rt.po	266 V.c.e
187 Ol.s	227 Rt.pu	267 V.c.i
188 P.l	228 Ru	268 V.c.p
189 P.m	229 Ru.mc+Ru.pc	269 V.c.pc
190 P.m.e+P.m.i	230 Rx.VI	270 V.c.pc.e
191 Pd.cbl.if(=C.r)	231 Rx.VIII	271 V.c.pc.i
192 Pd.cbl.m(=B.po)	232 S.pv	272 V.c.pc.i+V.o.m
193 Pd.cbl.s(=B.cj)	233 sA	273 V.c.por(=V.por)
194 Pf(1)	234 Sb.m.cbl	274 V.im
195 Pm.h	235 Sb.m.g.or	275 V.im.e
196 Po.st	236 Sb.m.lb.or(=Sb.m.g.or)	276 V.im.i
197 Pol.tp	237 Sb.m.lb.tp	277 V.o.a
198 Ppd	238 sHb	278 V.o.i
199 Ppd+Rt+Z.i	239 SII	279 V.o.m
200 Ppd+Z.i	240 St.m	280 V.o.p
201 Pr.tg(po)	241 St.m+Cm.hb	281 V.st.t
202 prG	242 St.t	282 V.t.sp
203 prG+II	243 St.t+V.st.t	283 Va.cb.l
204 Prps	244 Sth	284 Ve.l
205 Ps.pd	245 Str.ac(=St.a)	285 Ve.t(=Ve.III)
206 Ps.pd+T.csp	246 Str.pd.i	286 VI(=N.VI)+Rx.VII.g
207 Pt	247 Str.s	287 VII
208 Pt.ru+Q	248 Str.s.i(=Str.S)	288 VIIIc.d
209 Pth(=Prth)	249 Str.sc	289 VIIIc.v
210 Pth.pr.l	250 Str.sep	290 VIIIv
211 Pu.ig	251 Str.sf	291 VIIIv.s
212 Pu.l	252 Str.sf+Ar	292 Vm
213 Pu.m	253 Str.z(=St.z)	293 Vr.cbl
214 Pu.o.l	254 Su.ot(=Fi.ot)	294 Vr.s
215 Pu.o.m	255 T.csp	295 X
216 Pu.o.v	256 T.l	296 X.d.m
217 Pu.sb	257 T.mth(=V.d'A)	297 Z.i
218 Pu.sf	258 T.s	298 Z.i.c
219 Put(=Pt)	259 T.sp.th(=T.st)	
220 Pv	260 T.t.c	

Appendix A3: 2D SW - Labels-only List

SW.MICRO.HORIZONTAL.LXXVIII

Plate #	Contours in the correspoding plate used for labeling only
1	A.pbg.p, B, C.c.r, Cd, Fu.st(=Fu.str), Pt(=Put), Su.ig
2	B, Cd, Co.i, Cp.i.p, Fu.st(=Fu.str), Pt(=Put), Str.pd.i, Su.ig
3	C.c.sp(=c.c.spl), Cp.e, Cp.i.a, Cp.i.g, Cp.i.p, Ps.cor.r, Sb.m.lb.fr
4	C.c.sp(=c.c.spl), Cp.e, Cp.i.a, Cp.i.g, Cp.i.p, Ps.cor.r, Sb.m.lb.fr
5	Cp.e, Cp.ex, Cp.i.a, Cp.i.g, Cp.i.p, Cp.i.rl
6	Cp.e, Cp.ex, Cp.i.g, Cp.i.p, Cp.i.rl, Po.st, Ps.cor.r
7	Cp.e, Cp.ex, Cp.i.p, Cp.i.rl
8	Cp.e, Cp.ex, Cp.i.p, Cp.i.rl
9	Cp.e, Cp.ex, Fu.st(=Fu.str)
10	Cp.ex, Cp.i.a, Cp.i.p, Cp.i.rl
11	Cp.ex, Cp.i.a, Cp.i.p, Cp.i.rl
12	Cp.ex, Fu.st(=Fu.str)
13	Cp.i.a, Cp.i.g, Cp.i.p, Cp.i.rl
14	Cp.i.a, Cp.i.g, Cp.i.p, Cp.i.rl
15	Cp.i.a, Cp.i.g, Cp.i.p, Cp.i.rl
16	Cp.i.a, Cp.i.g, Cp.i.p, Cp.i.rl
17	Cp.i.a, Cp.i.g, Cp.i.p, Cp.i.rl
18	Cp.i.a, Cp.i.g, Cp.i.p, Cp.i.rl
19	Cp.i.a, Cp.i.g, Cp.i.p, Cp.i.rl, Fi.cb.m.B
20	Cp.i.a, Cp.i.g, Cp.i.p, Cp.i.rl, V.im

SW.MICRO.FRONTAL.LXVIII

Plate #	Contours in the corresponding plate used for labeling only
1	A.pol, A.tb, Co.r(=Cor.r), Cp.e, Cp.ex, Ps.cor.r
2	An.pd, Cl.prA(=Cl.pra), Cl.sst, Cor.r, Cp.e
3	B.cj(=Pd.cbl.s), Cn.A(=C.A.), Co.r(=Cor.r), Cp.e, G.unc, Ps.cor.r, Ps.pd
4	B.cj(=Pd.cbl.s), Cn.A(=C.A.), Co.r(=Cor.r), G.unc, Ps.cor.r, Ps.pd
5	B.cj(=Pd.cbl.s), Cn.A(=C.A.), Cp.i.p, G.unc, Ps.cor.r, Ps.pd
6	B.cj(=Pd.cbl.s), Cn.A(=C.A.), Cp.i.p, Gr.po, Ps.cor.r, Ps.pd
7	B.cj(=Pd.cbl.s), Cn.A(=C.A.), Cp.i.p, Ps.cor.r, Ps.pd
8	B.cj(=Pd.cbl.s), Cp.e, Cp.ex, Cp.i.p, G.unc, Ps.cor.r, Ps.pd
9	Cn.A(=C.A.), Co.r(=Cor.r), Cp.ex, Cp.i.p, G.unc, Ps.cor.r, Ps.pd
10	Cn.A(=C.A.), Co.r(=Cor.r), Cp.i.p, G.unc, Ps.cor.r, Ps.pd
11	Cn.A(=C.A.), Cp.e, Cp.ex, Cp.i.rl, G.hp, Ps.cor.r
12	Cn.A(=C.A.), Cp.e, Cp.ex, Cp.i.rl, G.hp, Ps.cor.r
13	Cn.A(=C.A.), Cp.e, Cp.i.rl, G.hp

14	Cn.A(=C.A.), Cp.e, Cp.i.rl, G.hp
15	Co.r(=Cor.r), Cp.e, Cp.i.g, Ps.cor.r
16	Co.r(=Cor.r), Cp.e, Ps.cor.r
17	Co.r(=Cor.r), Cp.i.g, Ps.cor.r
18	Co.r(=Cor.r), Ps.cor.r
19	Co.r(=Cor.r), Ps.cor.r
20	Cor.r, Cp.e, Ps.cor.r

SW.MICRO.SAGITTAL.LXXVIII

Plate #	**Contours in the corresponding plate used for labeling only**
1	A.aq, Amc, C.c.g, C.c.sp(=C.c.spl), C.c.tr, F.r, Gr.po, Lb.a, Ol.i.m, Pyr, Sb.m.cbl, Str.sf, Vr.cbl
2	A.aq, Amc, C.c.g, C.c.sp(=C.c.spl), C.c.tr, F.r, Gr.po, Lb.a, Ol.i.m, Pyr, Sb.m.cbl, Str.sf, Vr.cbl
3	A.aq, B.cj(=Pd.cbl.s), C.c.r, C.c.sp(=C.c.spl), C.c.tr, D.b.cj(=B.cj.d), F.r, L.m, Lb.a, S.pv, Sb.m.cbl, Str.sf, Vr.cbl
4	A.aq, B.cj(=Pd.cbl.s), C.c.r, C.c.sp(=C.c.spl), C.c.tr, D.b.cj(=B.cj.d), F.r, L.m, Lb.a, S.pv, Sb.m.cbl, Str.sf, Vr.cbl
5	A.p.i, A.p.l, A.p.m, A.p.v, A.tb, Cp.i.p, Fb.f.po, G.fus, Lim.in, Pol.tp, Ra.c.c, sA, Sb.m.lb.or(=Sb.m.g.or), Str.sc
6	A.p.i, A.p.l, A.p.m, A.p.v, A.tb, Cp.i.p, Fb.f.po, G.fus, Lim.in, Pol.tp, Ra.c.c, sA, Sb.m.lb.or(=Sb.m.g.or), Str.sc
7	A.pol, C.r(=Pd.cbl.if), Cp.i.a, Cp.i.g, Cp.i.p, Gr.po, Lb.p, Pd.cbl.m(=B.po), T.csp
8	A.pol, C.r(=Pd.cbl.if), Cp.i.a, Cp.i.g, Cp.i.p, Gr.po, Lb.p, Pd.cbl.m(=B.po), T.csp
9	A.prtc, B.cj.x, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Co.i, Co.s, F.r, L.m, Pd.cbl.s(=B.cj), T.t.c
10	A.prtc, B.cj.x, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Co.i, Co.s, F.r, L.m
11	B, B.cj(=Pd.cbl.s), C.c.g, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Co.i, Co.s, F.ol, F.r, If, Pd.cbl.s(=B.cj), Pth(=Prth), Pv, T.l, T.t.c, Tm, Vm
12	12 B, B.cj(=Pd.cbl.s), C.c.g, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Co.i, Co.s, F.ol, F.r, If, Pd.cbl.s(=B.cj), Pth(=Prth), Pv, T.l, T.t.c, Tm, Vm
13	B.cj(=Pd.cbl.s), B.cj.v, C.c.g, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Eb, F.r, Lb.a, Pyr, Sb.m.cbl, T.t.c, Tm
14	B.cj(=Pd.cbl.s), B.cj.v, C.c.g, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Eb, F.r, Lb.a, Pyr, Sb.m.cbl, T.t.c, Tm
15	B.cj(=Pd.cbl.s), C.c.g, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Ce.i.tg, Co.i, Co.s, F.g(=F.G=G), F.r, Lb.a, Pd.cbl.s(=B.cj), Pyr, T.sp.th(=T.st), T.t.c, Vr.s
16	B.cj(=Pd.cbl.s), C.c.g, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Ce.i.tg, Co.i, Co.s, F.g(=F.G=G), F.r, Lb.a, Pd.cbl.s(=B.cj), Pyr, T.sp.th(=T.st), T.t.c, Vr.s
17	B.po(=Pd.cbl.m), Ci.am, Cp.dt, Cp.i.a, Cp.i.g, Cp.i.p, Gr.po, Lb.a, Lb.p,

	Ps.pd, Sb.m.cbl, Str.sf
18	B.po(=Pd.cbl.m), Ci.am, Cp.dt, Cp.i.a, Cp.i.g, Cp.i.p, Gr.po, Lb.a, Lb.p, Ps.pd, Sb.m.cbl, Str.sf
19	B.po(=Pd.cbl.m), Cn.A(=C.A.), Cp.i.a, Cp.i.g, Cp.i.p, Fu.st(=Fu.str), G.hp, Put(=Pt), Sb.m.cbl,
20	B.po(=Pd.cbl.m), Cn.A(=C.A.), Cp.i.a, Cp.i.g, Cp.i.p, Fu.st(=Fu.str), G.hp, Put(=Pt), Sb.m.cbl,
21	B.po(=Pd.cbl.m), Cp.i.a, Cp.i.g, Cp.i.p, Fi.cbl.cb, Lb.a
22	B.po(=Pd.cbl.m), Cp.i.a, Cp.i.g, Cp.i.p, Fi.cbl.cb, Lb.a
23	C.c.g, C.c.sp(=C.c.spl), C.c.tr, Ci.am, Cp.dt, D.o.i+Z.c, L.m, Lb.a, Lb.p, Ol.i, Pd.cbl.if(=C.r), Pd.cbl.m(=B.po), Ps.pd, C.c.r, Sb.m.cbl, T.csp
24	C.c.g, C.c.sp(=C.c.spl), C.c.tr, Ci.am, Cp.dt, D.o.i+Z.c, L.m, Lb.a, Lb.p, Ol.i, Pd.cbl.if(=C.r), Pd.cbl.m(=B.po), Ps.pd, C.c.r, Sb.m.cbl, T.csp
25	A.prtc, B.cj.x, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Co.i, Co.s, F.r, L.m
26	A.prtc, B.cj.x, C.c.r, C.c.sp(=C.c.spl), C.c.tr, Co.i, Co.s, F.r, L.m, Pd.cbl.s(=B.cj), T.t.c
27	A.pol, C.r(=Pd.cbl.if), Cp.i.a, Cp.i.g, Cp.i.p, Gr.po, Lb.p, Pd.cbl.m(=B.po), T.csp
28	A.pol, C.r(=Pd.cbl.if), Cp.i.a, Cp.i.g, Cp.i.p, Gr.po, Lb.p, Pd.cbl.m(=B.po), T.csp
29	A.p.i, A.p.l, A.p.m, A.p.v, A.tb, Cp.i.p, Fb.f.po, G.fus, Lim.in, Pol.tp, Ra.c.c, sA, Sb.m.lb.or(=Sb.m.g.or), Str.sc
30	A.p.i, A.p.l, A.p.m, A.p.v, A.tb, Cp.i.p, Fb.f.po, G.fus, Lim.in, Pol.tp, Ra.c.c, sA, Sb.m.lb.or(=Sb.m.g.or), Str.sc
31	A.aq, B.cj(=Pd.cbl.s), C.c.r, C.c.sp(=C.c.spl), C.c.tr, D.b.cj(=B.cj.d), F.r, L.m, Lb.a, S.pv, Sb.m.cbl, Str.sf, Vr.cbl
32	A.aq, B.cj(=Pd.cbl.s), C.c.r, C.c.sp(=C.c.spl), C.c.tr, D.b.cj(=B.cj.d), F.r, L.m, Lb.a, S.pv, Sb.m.cbl, Str.sf, Vr.cbl
33	A.aq, Amc, C.c.g, C.c.sp(=C.c.spl), C.c.tr, F.r, Gr.po, Lb.a, Ol.i.m, Pyr, Sb.m.cbl, Str.sf, Vr.cbl
34	A.aq, Amc, C.c.g, C.c.sp(=C.c.spl), C.c.tr, F.r, Gr.po, Lb.a, Ol.i.m, Pyr, Sb.m.cbl, Str.sf, Vr.cbl

Appendix A4: SW Index of Anatomical Abbreviations

Alv -- Alveus
Alv+Fx.p+La.m.sf -- Alveus, Fornix, crus posterior, and Lamina medullaris superficialis (subiculi)
An.l(=Ansl.l) -- Ansa lenticularis
An.l(=Ansl.l)+La.p.li -- Ansa lenticularis and Lamina pallidi limitans
An.l(=Ansl.l)+La.p.li+P.m -- Ansa lenticularis, Lamina pallidi limitans and Pallidum mediale
An.l+An.pd+P.m.e+P.m.i -- Ansa lenticularis, Ansa peduncularis, Pallidum mediale externum and internum
An.pd -- Ansa peduncularis
A.aq -- Anulus aquaeductus
Aq -- Aquaeductus mesencephali
A.pol -- Area parolfactoria
A.pol+G.or.m(=G.or.i) -- Area parolfactoria and Gyrus orbitalis medialis
A.pol+G.r -- Area parolfactoria and Gyrus rectus
A.pol+G.r+I -- Area parolfactoria, Gyrus rectus, and Nucleus intermedius paraventricularis hypothalami
A.pol+G.r+Ra.ol.m+Ra.ol.sf -- Area parolfactoria, Gyrus rectus, Radiatio olfactoria medialis, and Radiatio olfactoria superficialis
A.prtc+Co.s+Cm.p(=Cm.d) -- Area praetectalis, Colliculus superior, and Commissura posterior
A.tr.W(=A.W) -- Area triangularis (Wernicke)
A.W(=A.tr.W) -- Area triangularis (Wernicke)
A.tb -- Area tubercularis
A.tb+B -- Area tubercularis and Nucleus basalis
B.co.i -- Brachium colliculi inferioris
B.co.i+B.co.s -- Brachium colliculi inferioris and Brachium colliculi superioris
B.co.s -- Brachium colliculi superioris
H1+H2 -- Campus Forelii, pars H1 and Campus Forelii, pars H2
H2 -- Campus Forelii, pars H2
H2+T.mth(=V.d'A)+X -- Campus Forelii, pars H2, Tractus mamillo-thalamicus, and Fasciculus x (Forel)
Cp.ex -- Capsula extrema
Cp.i.a -- Capsula interna, crus anterius
Cp.i.g -- Capsula interna, genu
Cd -- Caudatum
Cd+Fu.st(=Fu.str) -- Caudatum and Fundus striati (Brockhaus)
Cd+Put(=Pt) -- Caudatum and Putamen
Cd+Fu.st(=Fu.str)+St.t -- Caudatum, Fundus striati (Brockhaus) and Stria terminalis
Cd+Fu.st(=Fu.str)+Put(=Pt) -- Caudatum, Fundus striati (Brockhaus), and Putamen
Ch.Il -- Chiasma nervorum opticorum
Cng -- Cingulum
Ci.co -- Cisterna colliculorum
Cl -- Claustrum
Cl.in -- Claustrum insulare
Cl.in+Cl.sst+Lim.in -- Claustrum insulare, Claustrum substriatale, and Limen insulae
Cl.prA(=Cl.pra) -- Claustrum praeamygdalae
Co.i+Co.s -- Colliculus inferior and Colliculus superior

Cm.a -- Commissura anterior
Cm.p(=Cm.d) -- Commissura posterior
Cm.sII -- Commissura supraoptica
Cn.A(=C.A.) -- Cornu Ammonis
Cn.A(=C.A.)+Is.g.fc -- Cornu Ammonis and Isthmus gyri fornicati
C.c -- Corpus callosum
C.c+Fx(=Fo) -- Corpus callosum and Fornix
G.l -- Corpus geniculatum laterale
G.m -- Corpus geniculatum mediale
Sth -- Corpus Subthalamicum
Cx.in -- Cortex insularis
D.b.cj(=B.cj.d) -- Decussatio brachii conjunctivi
F.g(=F.G=G) -- Fasciculus gracilis (Goll)
G(=F.G) -- Fasciculus gracilis Goll
F.ol -- Fasciculus olfactorius
F.M(=T.M)+Pf(1) -- Fasciculus retroflexus Meynerti and Nucleus parafascicularis thalami
F.M(=T.M)+Ru -- Fasciculus retroflexus Meynerti and Ruber
F.M(=T.M) -- Fasciculus retroflexus Meynertii
F.unc -- Fasciculus uncinatus (Lewandowski)
X -- Fasciculus x (Forel)
Fb.III+Ni -- Fibrae nervi oculomotorii and Niger
Fi.fx -- Fimbria fornicis
Fi.cbl.cb -- Fissura cerebello-cerebralis
Fi.cb.l -- Fissura cerebri lateralis
Fi.cb.m.B -- Fissura cerebri magna (Bichat)
Fo.L+Ve.IV -- Foramen Luschkae and Ventriculus quartus
Fo.M(=Fo.Mo) -- Foramen Monroi
Fo(=Fx) -- Fornix
Fx(=Fo) -- Fornix
Fx(=Fo)+M.l -- Fornix and Nucleus mammillaris lateralis
Fx.p -- Fornix, crus posterior
Fx.lb -- Fornix, pars libera
Fx.lb+Fx.tc -- Fornix, pars libera and Fornix, pars tecta
Fx.lb+Fx.tc+M.m -- Fornix, pars libera, Fornix, pars tecta, and Nucleus mammillaris medialis
Fx.tc -- Fornix, pars tecta
Fu.st(=Fu.str) -- Fundus striati (Brockhaus)
Fu.st(=Fu.str)+Gr.se -- Fundus striati (Brockhaus) and Griseum septi
Fu.st(=Fu.str)+Put(=Pt) -- Fundus striati (Brockhaus) and Putamen
Fu.st(=Fu.str)+St.t -- Fundus striati (Brockhaus) and Stria terminalis
Hb -- Ganglion habenulae
C.c.g -- Genu corporis callosi
Gr.cf.b.cj+L.mes -- Griseum circumflexum brachii conjunctivi and Nucleus lateralis mesencephali
Gr.po -- Griseum pontis
Gr.po+Pr.tg(po) -- Griseum pontis and Processus tegmentosus pontis (Jakobsohn)
Gr.po+T.csp -- Griseum pontis and Tractus cortico-spinalis
Gr.po+Lp.cp+Str.sf -- Griseum pontis, Nucleus lateralis pontis, pars compacta, and Stratum superficiale pontis
Gr.po+Lp.cp+Pr.tg(po)+Str.sf -- Griseum pontis, Nucleus lateralis pontis, pars compacta,

Processus tegmentosus pontis (Jakobsohn), and Stratum superficiale pontis

Gr.se -- Griseum septi
G.cm -- Gyrus calloso-marginalis
G.fus -- Gyrus fusiformis
G.hp -- Gyrus hippocampi
G.po -- Gyrus parieto-occipitalis
G.unc -- Gyrus uncinatus
He.cbl -- Hemisphaerium cerebelli
Hi(Ol.i)+Ol.i -- Hilus olivae inferioris and Oliva inferior
Hpth -- Hypothalamus
La.m.c -- Lamella medialis caudalis
La.m.ip -- Lamella medialis interpolaris
L.m+F.m.po -- Lemniscus medialis and Fasciculus medianus pontis
La.m.ip+La.m.o -- Lamella medialis interpolaris and Lamella medialis oralis
La.m.o -- Lamella medialis oralis
La.m -- Lamella medialis thalami
La.p.i -- Lamina pallidi incompleta
La.p.l -- Lamina pallidi lateralis
La.p.li -- Lamina pallidi limitans
La.p.m -- Lamina pallidi medialis
L.m -- Lemniscus medialis
Flnd -- Lobus flocculo-nodularis cerebelli
Lb.p -- Lobus posterior cerebelli
Coe -- Locus coeruleus (caeruleus)
II -- Nervus (s.) Tractus opticus
IV -- Nervus trochleraris
Ni -- Niger
Ni+Ip -- Niger and Nucleus interpeduncularis
Ni+Ps.l.p -- Niger and Pes lemnisci profundus
Ni+Ps.l.sf -- Niger and Pes lemnisci superficialis
Ni.c -- Niger compactus, pars compacta
Ni.r -- Niger reticulatus, pars reticulata
Ni+Ppd+Q -- Niger, Nucleus peripeduncularis (dorsalis et lateralis), and Fasciculus Q (Sano)
Ce -- Nuclei centrales thalami
D.im+Z.im -- Nuclei dorso-intermedii and Nucleus zentrolateralis intermedius
D.o+Z.o -- Nuclei dorso-orales thalami and Nucleus zentrolateralis
V.im -- Nuclei ventrointermedii
VIIIv -- Nuclei vestibulares
VI(=N.VI)+Rx.VII.g -- Nucleus abducens and Genu radicis nervi facialis
A.p.i -- Nucleus amygdalae profundus intermedius
A.p.i+A.p.l -- Nucleus amygdalae profundus intermedius and Nucleus amygdalae profundus lateralis
A.p.l -- Nucleus amygdalae profundus lateralis
A.p.m -- Nucleus amygdalae profundus medialis
A.p.v -- Nucleus amygdalae profundus ventralis
A.p.v+A.sf -- Nucleus amygdalae profundus ventralis and Nucleus amygdalae superficialis
A.sf -- Nucleus amygdalae superficialis
A.d -- Nucleus anterodorsalis thalami

A.m -- Nucleus anteromedialis thalami
A.pr -- Nucleus anteroprincipalis thalami
Ar -- Nucleus arcuatus (pyramidalis)
Ar+Str.sf -- Nucleus arcuatus (pyramidalis) and Stratum superficiale pontis
B -- Nucleus basalis
B+C.c+Hpth+II -- Nucleus basalis, Corpus callosum, Hypothalamus, and Nervus (s.) Tractus opticus
Ce.mc -- Nucleus centralis magnocellularis
Ce.pc -- Nucleus centralis parvocellularis
VIIIc.d -- Nucleus cochlearis dorsalis
VIIIc.v -- Nucleus cochlearis ventralis
N.cm.p(=N.D) -- Nucleus commissurae posterioris
Co+S.pv -- Nucleus commissuralis thalami and Substantia periventricularis
Co+Edy+S.pv+sHb -- Nucleus commissuralis thalami, Nucleus endymalis thalami, and Nucleus subhabenularis
Co+Pt+S.pv -- Nucleus commissuralis thalami, Nucleus parataenialis thalami, and Substantia periventricularis
Co+Edy+FM+sHb+S.pv -- Nucleus commissuralis thalami, Nucleus endymalis thalami,
Cu -- Nucleus cucullaris (thalami)
Dt -- Nucleus dentatus cerebelli
Dt+Hi(Dt) -- Nucleus dentatus cerebelli and Hilus dentati
D.h(=D) -- Nucleus dorsalis (hypothalami)
D.sf -- Nucleus dorsalis superficialis
D.sf+La.m -- Nucleus dorsalis superficialis and Lamella medialis thalami
D.c -- Nucleus dorso-caudalis
D.c+Z.c -- Nucleus dorso-caudalis and Nucleus zentrolateralis caudalis
D.im.e -- Nucleus dorso-intermedius externus
D.im.e+Z.im -- Nucleus dorso-intermedius externus and Nucleus zentrolateralis intermedius
D.im.e+Z.im.e -- Nucleus dorso-intermedius externus and Nucleus zentrolateralis intermedius externus
D.im.i -- Nucleus dorso-intermedius internus
D.im.i+Z.im -- Nucleus dorso-intermedius internus and Nucleus zentrolateralis intermedius
D.im.i+Z.im.i -- Nucleus dorso-intermedius internus and Nucleus zentrolateralis intermedius internus
D.im.i+Z.i.c -- Nucleus dorso-intermedius internus and Zona incerta, pars caudalis
D.im.s -- Nucleus dorso-intermedius superior
D.o.e -- Nucleus dorso-oralis externus
D.o.e+Z.o -- Nucleus dorso-oralis externus and Nucleus zentrolateralis
D.o.i -- Nucleus dorso-oralis internus
D.o.i+Z.o -- Nucleus dorso-oralis internus and Nucleus zentrolateralis
Eb -- Nucleus emboliformis cerebelli
Edy -- Nucleus endymalis thalami (Part of the midline nuclei of Walker)
VII -- Nucleus facialis
Fa -- Nucleus fasciculosus thalami
If -- Nucleus infundibularis
Ic -- Nucleus intercalatus hypothalami
Ip -- Nucleus interpeduncularis
L.h -- Nucleus lateralis hypothalami
Lpo -- Nucleus lateropolaris thalami (Hassler)

Lpo.mc -- Nucleus lateropolaris, pars macrocellularis
Li.m -- Nucleus limitans medialis thalami
Li -- Nucleus limitans thalami
Li+Pu.l -- Nucleus limitans thalami and Pulvinar laterale
Li+M -- Nucleus limitans thalami and Territorium mediale thalami
M.l -- Nucleus mammillaris lateralis
M.m -- Nucleus mammillaris medialis
M.b.p -- Nucleus medialis basalis posterior
M.c -- Nucleus medialis caudalis
M.c.e -- Nucleus medialis caudalis externus
M.c.i -- Nucleus medialis caudalis internus
M.fa -- Nucleus medialis fasciculosus
M.fa.p -- Nucleus medialis fasciculosus posterior
M.fa.s -- Nucleus medialis fasciculosus superior
M.fi -- Nucleus medialis fibrosus
M.fi+Co -- Nucleus medialis fibrosus and Nucleus commissuralis thalami
M.fi.p -- Nucleus medialis fibrosus superior
M.pl -- Nucleus medialis paralammellaris
N.VI(=VI) -- Nucleus nervi abducentis
Ov -- Nucleus ovoideus hypothalami
Pf(1) -- Nucleus parafascicularis thalami
Pm.c -- Nucleus paramedianus caudalis thalami
Pt.ist -- Nucleus parataenialis interstitialis
Pt -- Nucleus parataenialis thalami
Pt+St.m -- Nucleus parataenialis thalami and Stria medullaris thalami
Pv -- Nucleus paraventricularis hypothalami
Ru.pc -- Nucleus parvocellularis rubris
Pf(2) -- Nucleus perifornicalis hypothalami
Ppd -- Nucleus peripeduncularis (dorsalis et lateralis)
Ppd+Z.i -- Nucleus peripeduncularis (dorsalis et lateralis) and Zona incerta
Ppd+Rt+Z.i -- Nucleus peripeduncularis (dorsalis et lateralis), Reticulatum thalami, and Zona incerta
Pm.h -- Nucleus postmammillaris hypothalami
Prps -- Nucleus praepositus vagi
Pth.pr.d -- Nucleus prothalamicus principalis dorsalis
Pth.pr.l -- Nucleus prothalamicus principalis lateralis
Pu.ig -- Nucleus pulvinaris intergeniculatus
Pu.o.l -- Nucleus pulvinaris orolateralis
Pu.o.m -- Nucleus pulvinaris oromedialis
Pu.o.v -- Nucleus pulvinaris oroventralis
Pu.sf -- Nucleus pulvinaris superficialis
Pu.sb -- Nucleus pulvinaris suprabrachialis
Rt.c -- Nucleus reticulatus caudalis
Rt.im -- Nucleus reticulatus intermedius
Rt.po -- Nucleus reticulatus polaris
Rt.po+Rt.pu -- Nucleus reticulatus polaris and Nucleus reticulatus pulvinaris
Rt.pu -- Nucleus reticulatus pulvinaris
sHb -- Nucleus subhabenularis
SII -- Nucleus supraopticus hypothalami
V.t.sp -- Nucleus tractus spinalis trigemini
T.l -- Nucleus tuberis lateralis

Tm -- Nucleus tuberomammillaris
Tm+II -- Nucleus tuberomammillaris and Nervus (s.) Tractus opticus
X.d.m -- Nucleus vagus dorsomedialis
V.c.por(=V.por) -- Nucleus ventralis caudalis portae
V.c.a -- Nucleus ventrocaudalis anterior
V.c.a.e -- Nucleus ventrocaudalis anterior externus
V.c.a.i -- Nucleus ventrocaudalis anterior internus
V.c.e -- Nucleus ventrocaudalis externus
V.c.i -- Nucleus ventrocaudalis internus
V.c.pc -- Nucleus ventrocaudalis parvocellularis
V.c.pc.e -- Nucleus ventrocaudalis parvocellularis externus
V.c.pc.i -- Nucleus ventrocaudalis parvocellularis internus
V.c.pc.i+V.o.m -- Nucleus ventrocaudalis parvocellularis internus and Nucleus ventrooralis medialis
V.c.p -- Nucleus ventrocaudalis posterior
V.im.e -- Nucleus ventrointermedius externus
V.im.i -- Nucleus ventrointermedius internus
Vm -- Nucleus ventromedialis hypothalami
V.o.a -- Nucleus ventrooralis anterior
V.o.i -- Nucleus ventrooralis internus
V.o.m -- Nucleus ventrooralis medialis
V.o.p -- Nucleus ventrooralis posterior
VIIIv.s -- Nucleus vestibularis sup.
Z.o -- Nucleus zentrolateralis
Z.c.e -- Nucleus zentrolateralis caudalis externus
Z.c.i -- Nucleus zentrolateralis caudalis internus
Z.im.e -- Nucleus zentrolateralis intermedius externus
Z.im.i -- Nucleus zentrolateralis intermedius internus
Z.o.e -- Nucleus zentrolateralis oralis externus
Z.o.i -- Nucleus zentrolateralis oralis internus
Ol.i -- Oliva inferior
Ol.i.m -- Oliva inferior accessoria medialis
Ol.i.d -- Oliva inferior, pars dorsalis
Ol.s -- Oliva superior
P.l -- Pallidum laterale
P.m -- Pallidum mediale
P.m.e -- Pallidum mediale externum
P.m.e+P.m.i -- Pallidum mediale externum and Pallidum mediale internum
P.m.i -- Pallidum mediale internum
Pd.th.b(=Pd.th.if) -- Pedunculus thalami basialis
Ps.l.sf -- Pes lemnisci superficialis
Ps.pd -- Pes pedunculi, pars neoencephalica pedunculi
Ps.pd+T.csp -- Pes pedunculi, pars neoencephalica pedunculi and Tractus cortico-spinalis
Po.st -- Pontes striatales
prG -- Praegeniculatum
prG+II -- Praegeniculatum and Nervus (s.) Tractus opticus
Pr.tg(po) -- Processus tegmentosus pontis (Jakobsohn)
Pth(=Prth) -- Prothalamus
Pu.l -- Pulvinar laterale
Pu.m -- Pulvinar mediale
Pt(=Put) -- Putamen

Put(=Pt) -- Putamen
Put.li -- Putamen limitans
Pt.ru+Q -- Putamen rubris (Hassler) and Fasciculus Q (Sano)
Put.v -- Putamen ventrale
Ra.ol.p -- Radiatio olfactoria profunda
Ra.prl -- Radiatio praelemniscalis
Rx.VI -- Radix nervi abducentis
Rx.VIII -- Radix nervi octavi
Rx.III -- Radix nervi oculomotorii
R.prO -- Recessus praeopticus (Retzius)
Rt -- Reticulatum thalami
C.c.r -- Rostrum corporis callosi
Ru -- Ruber
C.c.sp(=c.c.spl) -- Splenium corporis callosi
Str.s -- Stratum sagittale (internum et externum)
Str.sep -- Stratum septi pellucidi
Str.sf -- Stratum superficiale pontis
Str.z(=St.z) -- Stratum zonale thalami
Str.ac(=St.a) -- Stria acusticae (Piccolimini)
St.m -- Stria medullaris thalami
St.t -- Stria terminalis
St.t+Cd -- Stria terminalis and Caudatum
St.t+V.st.t -- Stria terminalis and Vena striae terminalis
Sb.m.g.or -- Substantia medullaris gyri orbitalis
Sb.m.lb.or(=Sb.m.g.or) -- Substantia medullaris lobi orbitalis
Sb.m.lb.tp -- Substantia medullaris lobi temporalis
S.pv -- Substantia periventricularis
Su.ot(=Fi.ot) -- Sulcus occipitotemporalis
sA -- Supraamygdaleum
M -- Territorium mediale thalami
To -- Tonsilla cerebelli
T.s -- Tractus (et Nucleus tractus) solitarii
T.csp -- Tractus cortico-spinalis
T.mth(=V.d'A) -- Tractus mamillo-thalamicus
T.tpptpo(=T.tppo) -- Tractus temporo-parietopontinus (Tuerck)
C.c.tr -- Truncus corporis callosi
Va.cb.l -- Vallecula cerebri lateralis
V.st.t -- Vena striae terminalis
Ve.l -- Ventriculus lateralis
Ve.t(=Ve.III) -- Ventriculus tertius
Z.i -- Zona incerta
Z.i.c -- Zona incerta, pars caudalis

Appendix B: 3D SW Anatomical List

```
Th
{
   A
   {
      A.d
      A.m
      A.pr
   }
   M
   {
      M.c
      {
         M.c.e
         M.c.i
         M.c.others
      }
      M.fa
      {
         M.fa.p
         M.fa.s
         M.fa.others
      }
      M.fi
      {
         M.fi.p
         M.fi.others
      }
   }
   L
   {
      D
      {
         D.im
         {
            D.im.e
            D.im.i
         }
         D.o
         {
            D.o.e
            D.o.i
         }
      }
      V
      {
         V.c
         {
            V.c.e
```

```
            V.c.i
            V.c.pc.e
            V.c.pc.i
        }
        V.im
        {
            V.im.e
            V.im.i
        }
        V.o
        {
            V.o.a
            V.o.i
            V.o.m
            V.o.p
        }
    }
    Z
    {
        Z.c
        {
            Z.c.e
            Z.c.i
            Z.c.others
        }
        Z.im
        {
            Z.im.e
            Z.im.i
        }
    }
    L.po
}
Pu
{
    Pu.m
    Pu.o
    {
        Pu.o.l
        Pu.o.m
    }
}
I
{
    I.Ce
    {
        I.Ce.mc
        I.Ce.pc
        I.Ce.others
    }
    I.Cu
```

```
        I.Fa
    }
    Rt
    {
        Rt.c
        Rt.im
        Rt.po
        Rt.pu
        Rt.others
    }
}
```

Appendix C: 3D TT Anatomical List

Corpus amygdaloideum (NA)
Nucleus-caudatus (NC)
Corpus callosum (CC)
Corpus geniculatum laterale (Cgl)
Corpus geniculatum mediale (Cgm)
Corpus mamillaris (Cm)
Hippocampus (Hi)
Hypothalamus
{
  lat/hypothal (Hy:Lat)
  SO/hypothal (Hy:SO)
  POL/hypothal (Hy:POL)
  VM/hypothal (Hy:VM)
}
Lentiform nucleus
{
  Putamen (Pu)
  Globus pallidus medialis (GP1)
  Globus pallidus lateralis (GP2)
}
Nucleus ruber, bottom (NR:B)
Nucleus ruber, top (NR:T)
Nucleus subthalami (Ns)
Substantia nigra (SN)
Thalamus
{
  Dorsal medial (dm)
  Anterior (a)
  Ventral (v)
  {
    Anterior (va)
    Lateral (vl)
    Posterolateral (vpl)
    Posteromedial (vpm)
  }
  Pulvinar (p)
  Lateral (l)
  {
    Posterior (lp)
    Dorsal (ld)
   }
  Centromedian (cm)
  Others (th)
}
Ventricles (Ven)

Appendix D: C-BAGM CDROM Contents

The file structure in the C-BAGM CD is as follows:

root (C-BAGM 3.0)

- C-BAGM_3.0.pdf
- 2D_DATA/
- 2D_VIEWER/
- 3D_DATA/

The *2D_Viewer* directory contains:

C-BAGM_2D_Viewer.exe	(2D viewer)
CommonCast/	(2D viewer library)
Xtras/	(2D viewer library)

The 2D Data directory contains:

SW.MICRO.FRONTAL /	(high resolution SW coronal contour files)
SW.MICRO.HORIZONTAL/	(high resolution SW axial contour files)
SW.MICRO.SAGITTAL/	(high resolution SW sagittal contour files)

The 3D Data directory contains:

3DSW/	(3D SW structures)
3DTT/	(3D TT structures)

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