**Digital Eye-Movement Data from the H. Collewijn Eye Movement Laboratory**

In 1993, while visiting the eye-movemen laboratory of Dr. H. Collewijn and with the additional help and collaboration of Drs. A. Ferraresi and H. Van der Steen, the eye movement data of a patient with achiasma were taken using a magnetic search-coil system; the data were digitized.

Some of that data appeared in publications 101, 103, 107, and 111 (downloadable from <http://omlab.org/Personnel/lfd/Jrnl_Arts/lfd3.html>) and especially OMLAB Report #090506 (downloadable from <http://omlab.org/Teaching/teaching.html>). Below is a list of the available digitized eye-movement data from S01ACH, who had hereditary infantile nystagmus syndrome (aka, CN, congenital nystagmus) plus achiasma, that is now available to researchers, residents, and fellows for subsequent studies. Hopefully, this database will encourage research by those who have no access to eye-movement data; please cite the database in any resulting publications.

**SUBJ # AGE SEX DATE DX/CH RM/DP MISC**

**------------- ------ ------ -------- ------------- ---------- --------**

**S01ACH** \_\_ F 1993 CN-h/SSN sc/hv

**Day 1 (9/22/93)**

**S01ACHa** \_\_ F 1993 CN-h/SSN sc/hv

**Day 2 (9/23/93)**

**Day 3 (9/24/93)**

**S01ACHb** \_\_ F 1993 CN-h/SSN sc/hv

**NOTES:**

Data were taken from **S01ACH** over a 3-day period with the search coil system of Dr. H. Collewijn

**Subject #:** Each subject is numbered and each recording session (if >1) is lettered in **bold**; data taken from a session is further identified with numbers and letters.

**Age:** when recordings were made.

**DX/CH=Diagnoses/Characteristics:** CN, congenital nystagmus = INS, infantile nystagmus syndrome; CN-h, hereditary CN / SSN, See-Saw nystagmus

**RM/DP=Recording Method/Data Planes:** sc, magnetic search coil; / l, left; r, right; h, horizontal; v, vertical; H, head; T, target; V, vergence.

**Miscellaneous:** Additional relevant data (e.g.: conv damp, convergence damping).

**Data Acquisition and Analysis**

The data and calibration files have been set up for easy retrieval and analysis using OMtools (downloadable from <http://omlab.org/software/software.html>). Before starting, it is recommended that the following OMLAB Reports be downloaded and read from <http://omlab.org/Teaching/teaching.html>: OMLAB Report #011105 and OMLAB Report #111005, and especially OMLAB Report #090506.

OMLAB (Collewijn) Data (Using OMtools)

1. Check that there is an 'adjbias\_name.txt' file

If not, generate one using biasgen or copy another and edit it for proper file names

2. Check that the adjbias file has cal numbers (i.e, not "0's" and "1's")

If not, load the file and use 'cal' and copy the results into the adjbias file; copy them to all listed data files and save the adjbias file.

3. Load using 'rd'

If a '.lab' file fails to load, and 'rd' prompts you for the number of analog points, enter '1000' and it will load. Problem stems from an older format for LABVIEW data.

If a '.txt' file fails to load, the data files have the old MAC line ending: CR. Changing them to the NEW Unix ending, LF, will fix the problem.

What happens with the old line ending is that MATLAB reads in the file as a single column rather than respecting the proper number of them.

There is a program, LineBreak, on MacUpdate.com that will automate this. When you run it the first time, set all the checkboxes on so that it looks like the screenshot, 'LineBreak Settings.pdf'. Then simply drop the folders containing the text files onto the window. It will change all text files it finds.