

## DEMO NOTES

There are 5 clients:

SW has audio and EPG (imported from the MoCHA database)

CM has audio and EMA (AG500)

AW has audio and ultrasound video and EPG.

JC has audio, EPG and ultrasonix 100Hz highspeed ultrasound.

09\_MRI has dynamic MRI data recorded at 2.5Hz

Use FileOpen Project/Client... to select different clients.

Each client has one recording.

The software is fully functional but without the ability to record and import new data. Experiment with labelling the data, fitting contours, creating analysis values and exporting them.

## HIGH SPEED ULTRASOUND (Ultrasonix)

Open client JC. Select the “Analyse Ultrasonix” task window button at the top of the screen.

The screenshot shows the Ultrasonix software interface. At the top, there is a menu bar with options: File, Edit, Options, Help, Record, Analyse, Record Ultrasound, Analyse Ultrasound, EPG Feedback, all, Comparison Feedback, Analyse Ultrasonix, copy. Below the menu bar is a date field showing 10/19/2010. The main display area is divided into several sections: a large spectrogram on the left, a text area on the right containing a list of words and phrases (e.g., 'a ladder a zip a gravel the fishing'), a 'Spectrum' plot, and an 'Analysis Values' table. The 'Analysis Values' table includes fields for Time, Alveolar Closure, Alveolar Total, DOG, Palatal Total, Velar Closure, Velar Total, and Whole Total, all showing 0.000. Below the main display is a control panel with buttons for Add, Delete, Filter, Cut, Edit Hotlist, Start, and End. A 'Label' field and a 'Key' field are also present. At the bottom, there is a playback control bar with a 'Play' button, a 'Record' button, and a 'Go Back' button. The status bar at the very bottom shows '3133sec' and a file path: '18000.316 "Spooky supernatural ghost click click" 10/19/2010 12:36:36 PM'.

Click “analyse ultrasonix” to see this screen

Scroll down and click on the box with a cross ☒ next to “Spooky supernatural ghost...”

Click here and then <ctrl i> and <ctrl o> to zoom in and out

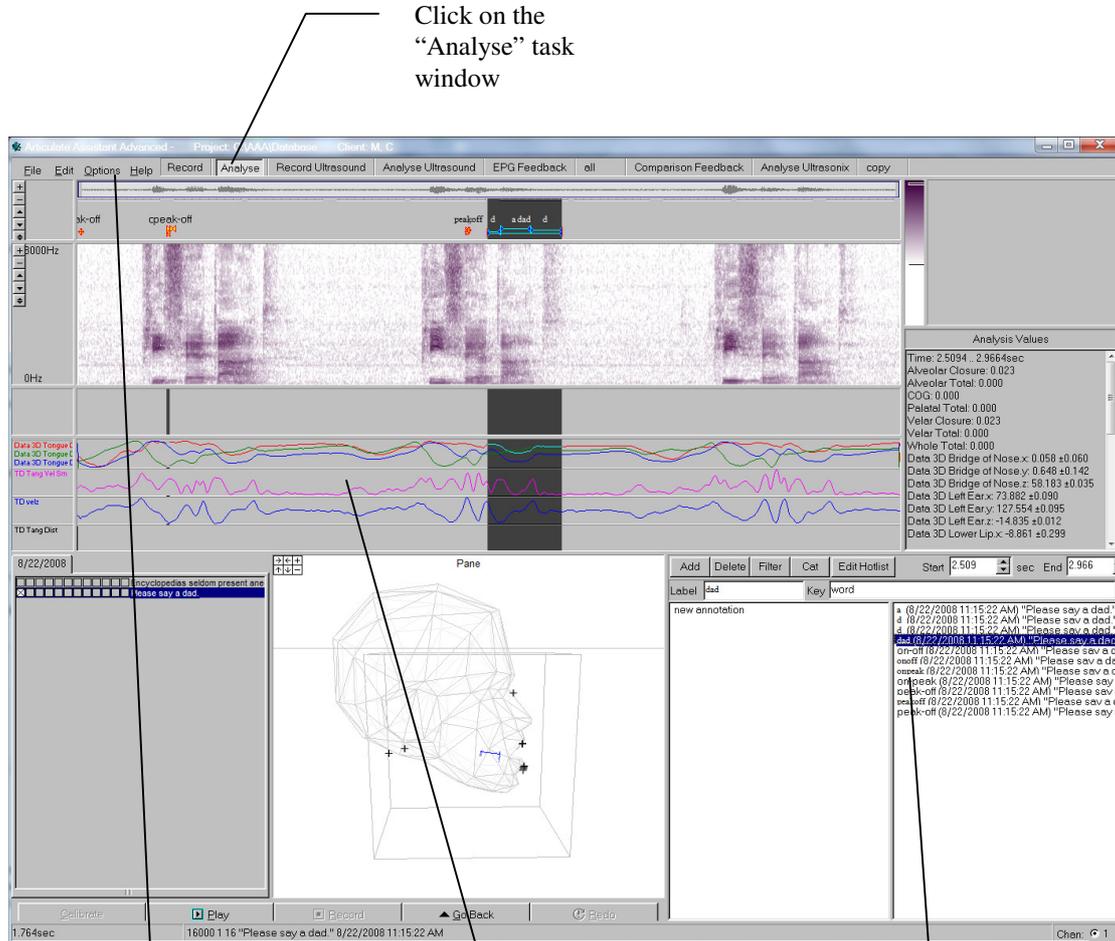
Right click on play to play 4x slower

Click here and then use left and right cursor keys to step through

## EMA DATA

Open client CM. To get the most out of this data select the “Analyse” task window button at the top of the screen

To see examples of velocity calculations, load the EMA analysis values.

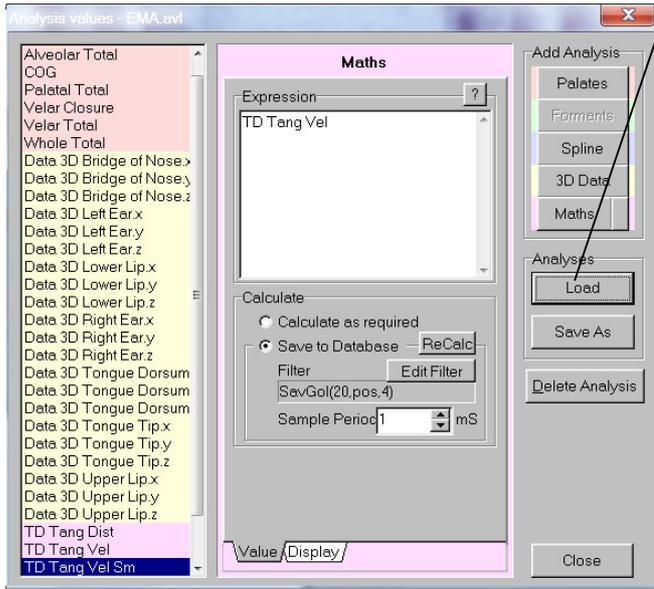


Click on the “Analyse” task window

Select “Options/ Analysis values” ...

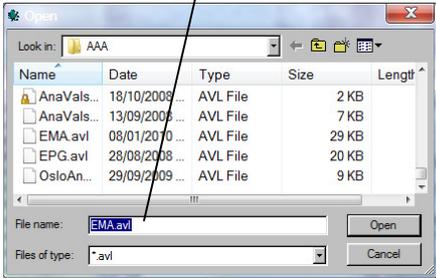
Right click here and select “Edit charts” to change the displayed charts

Click here to find annotated regions



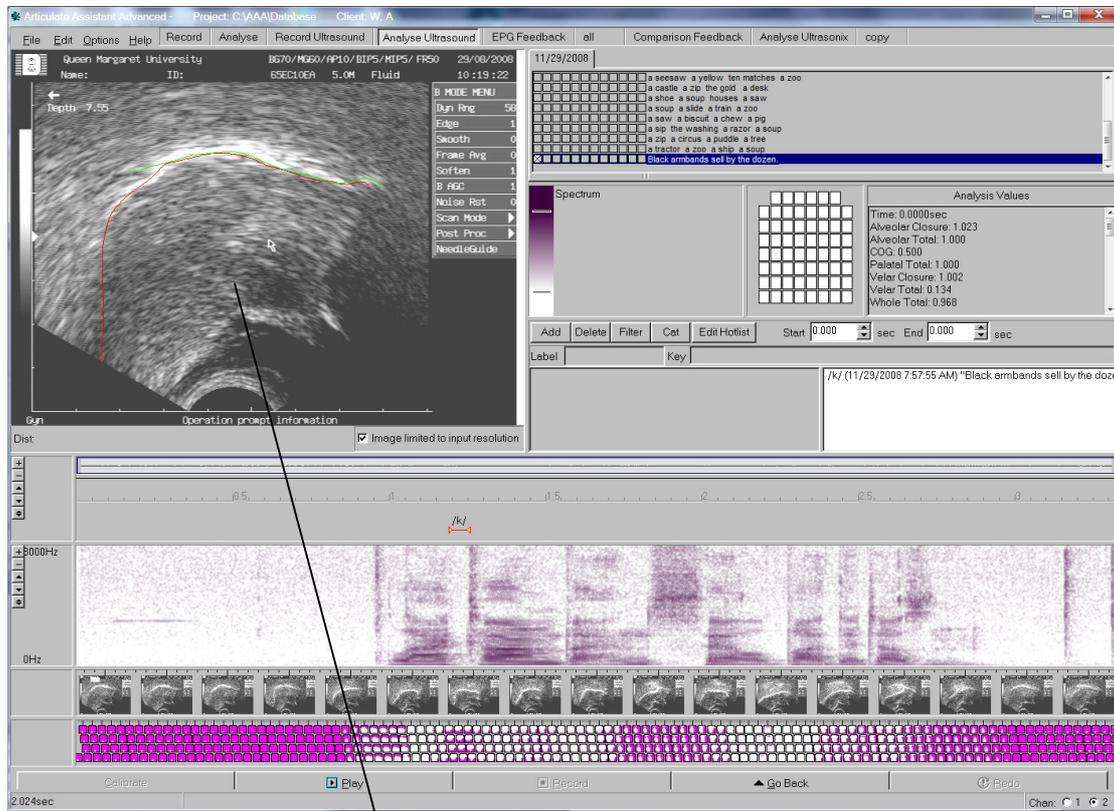
...Click  
"Load"....

...and select  
EMA.avl



## ULTRASOUND DATA (NTSC video)

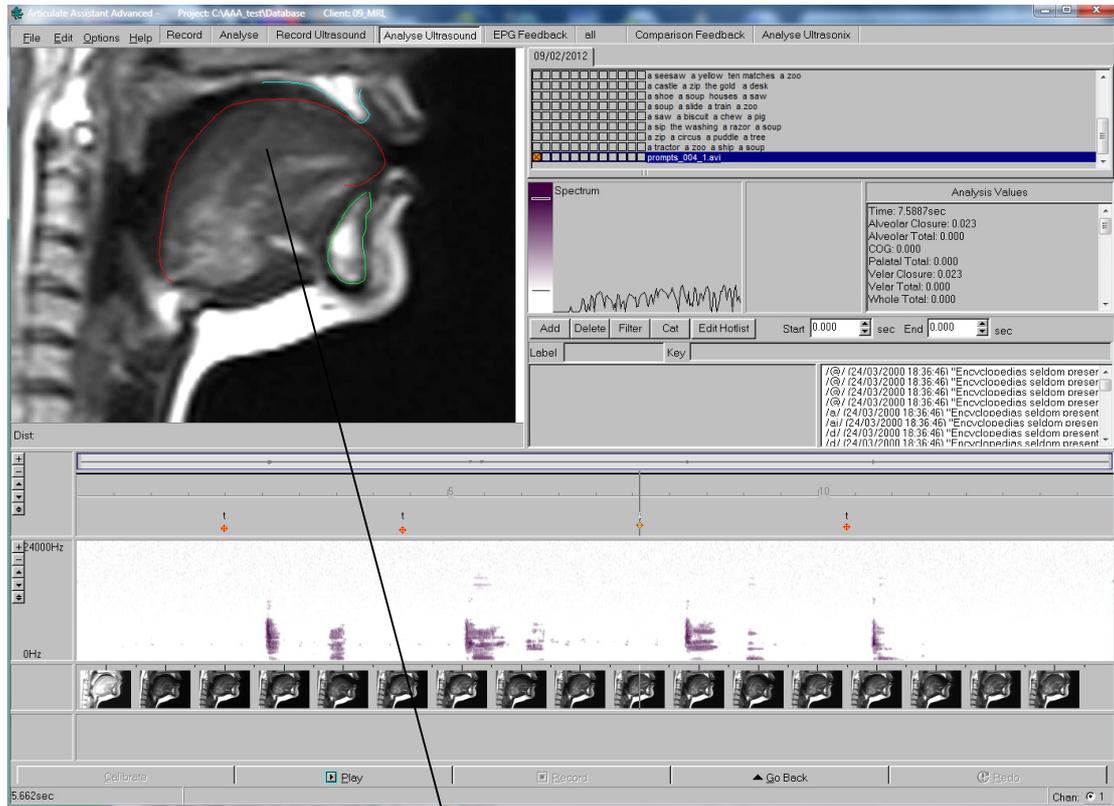
To get the most out of AW, click the “Analyse Ultrasound” task window button to get the view below.



Right click here and select “Edit splines” to get options for fitting splines

## MRI DATA

MRI data recorded with an 8mm slice thickness at 2.5 frames per second. Speakers were asked to hold target articulations for a couple of seconds to avoid motion blur in the images which take 400ms each to scan. In this recording the alveolar stop [t] is the target. [t] is repeated in isolation and in three vowel contexts. Audio is recorded using an optical microphone with post processed noise cancelling.



Right click here and select  
“Edit splines” to get options  
for fitting splines