

Squirrel and Pika Upgrade Example

Donna Sueper

Jan 22, 2020

Upgrading Squirrel and Pika experiments

Why?

- Not only for bug fixes, but for new features!
- When using a new(er) version of Igor, older experiments may give compilation errors

How?

0) Download and unzip the latest version(s)

- Pika 1.24 or Squirrel 1.64
- UpdateSQPKVersion_v1_06 (version 1_06 will be needed for Squirrel and Pika version 1.24+ 1.64+)

1) Load UpdateSQPKVersion ipf into your experiment

2) From the AMSIPFManager menu select “Update AMS ipfs and ADOPT ipfs”

3) Select folder that contains the folder from step 0

Credentials hint:

User = tofuser

<http://cires1.colorado.edu/jimenez-group/ToFAMSResources/ToFSoftware/index.html>

ToF-AMS
software downloads

Upgrade SQUIRREL PIKA APES SPARROW IE Calibration

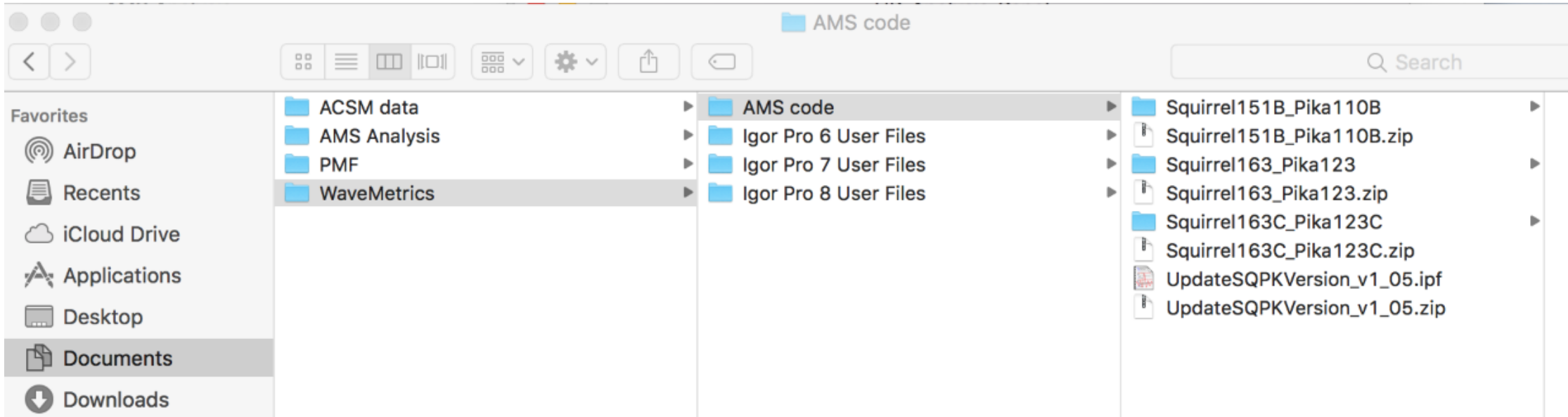
- [DAQ web site](#)
- [Squirrel and PIKA Information Web Site](#)
- [AMS Analysis Web Site](#)
- All Igor 6.x users are must upgrade to at least [Igor 6.37](#). There is a [known issue with MacOS High Sierra and Igor notebooks for Igor versions < 7.07](#). For Igor 6.37 and High Sierra users, one must kill all notebooks, which include the readme files, before saving an experiment.
- All the latest code as of February 5 2020 has been tested on Igor 7.07 and Igor 8.04 and is compatible.
- All Igor 7.x users are strongly encouraged to upgrade to at least [Igor 7.07](#)

Upgrade Existing SQUIRREL, PIKA Experiments

Version	Date	Release Notes	File Type	File Type
v1.05	24-Oct-2019	Release Notes v1.05	1.05 Igor Update ipfs (single ipf that compiles independently)	Zipped Procedures, ReadMe files (zipped ipf & readme file)

Suggested directory structure for Squirrel, Pika code

C:\Users\Donna\Documents\WaveMetrics\AMS code\



Good

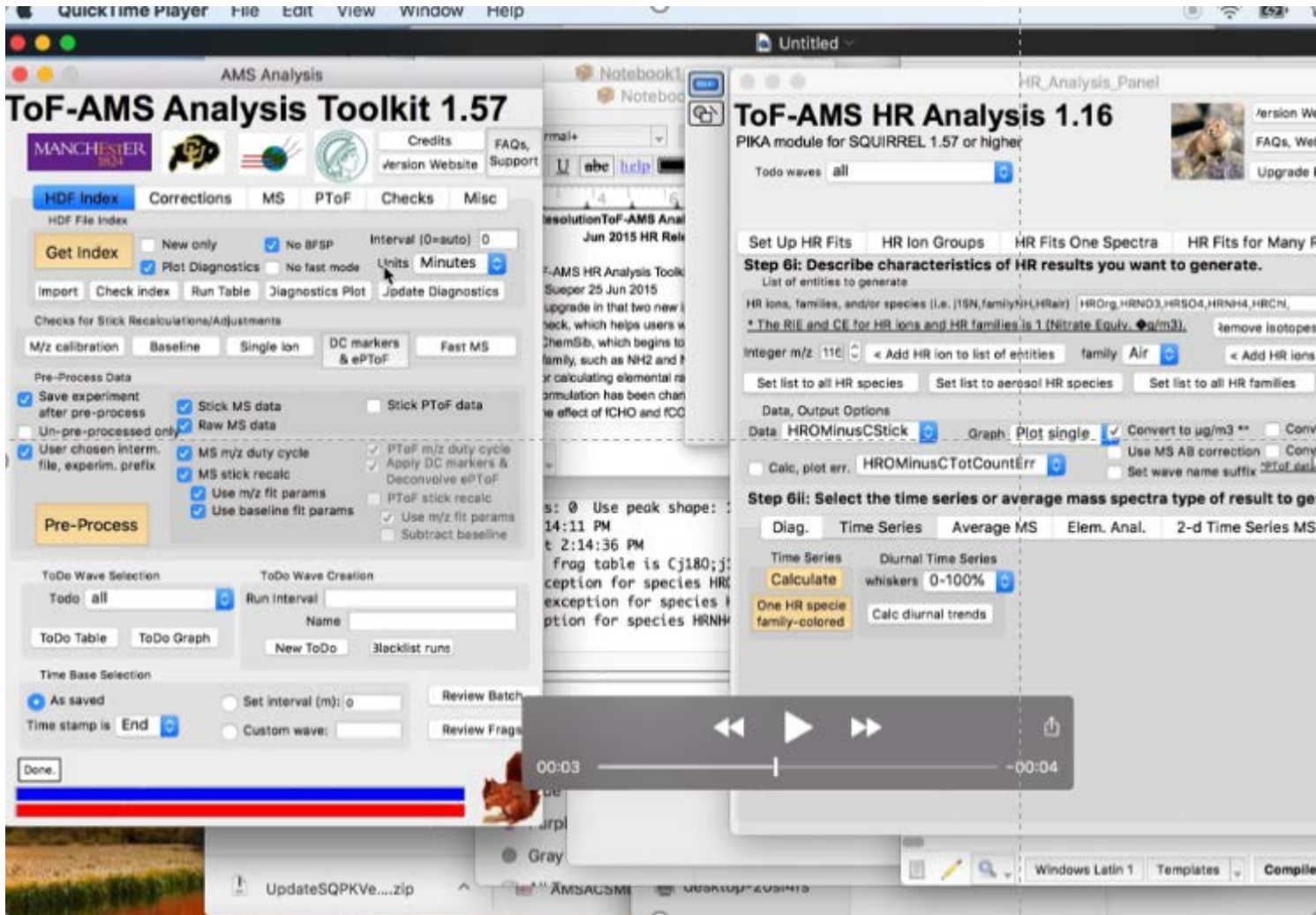
Keep the ipf and pxt files “strictly code” by themselves

Keep analysis experiments in a location near your data files

NOT Good

Keep your analysis experiments and/or data within the Wavemetrics folder

Upgrading within Igor 8 example



Example: Squirrel 1.57 – 1.63

Squirrel 1.57 does not compile in Igor 8



Load the upgrade ipf, to load and compile new(er) code



1) Load UpdateSQPKVersion ipf into your experiment

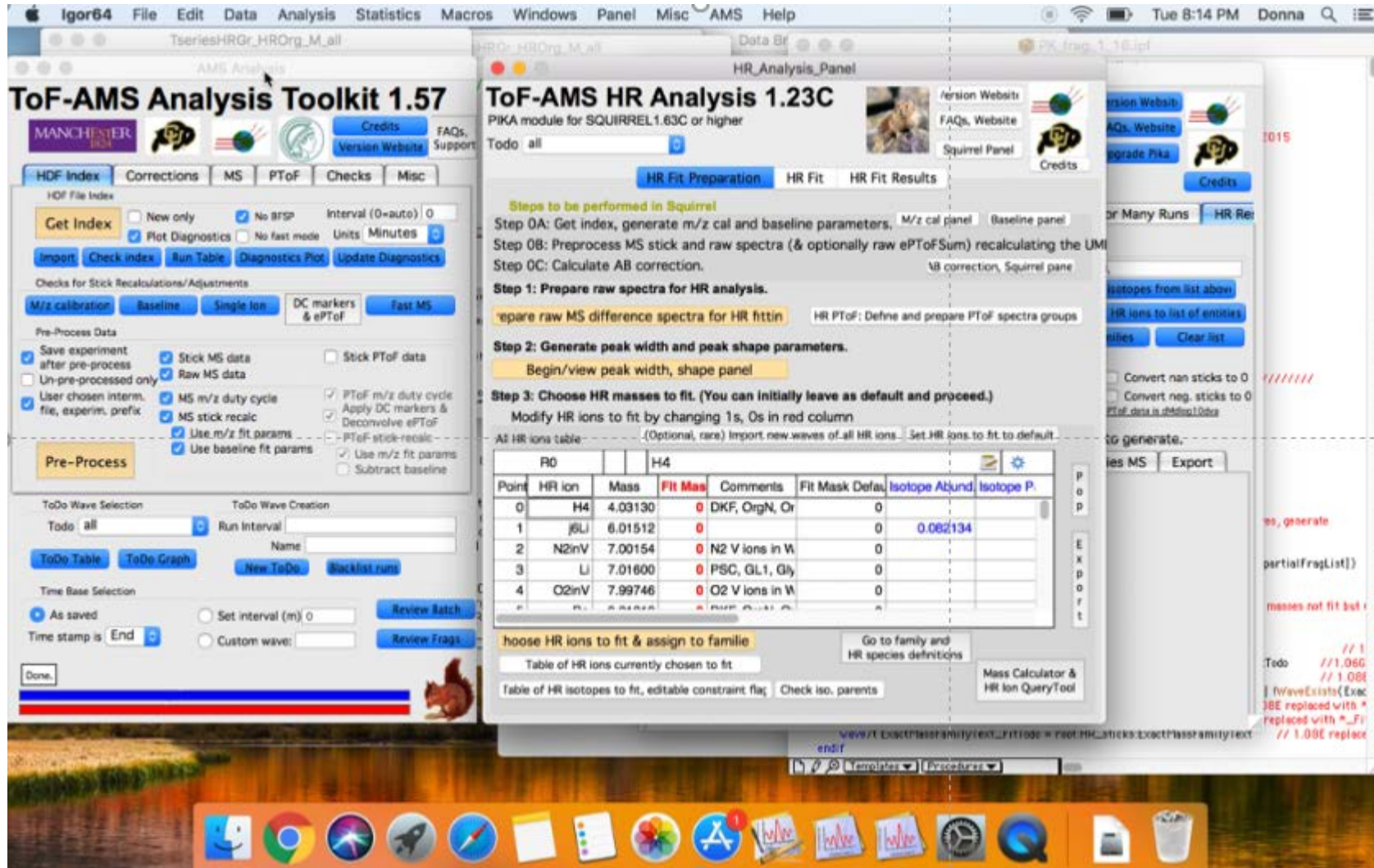
2) From the AMSIPFManager menu select “Update AMS ipfs and ADOPT ipfs”

3) Select folder that contains the folder from step 0

(Movie removed from pdf)

Upgrading within Igor 7 example

The upgrade ipf works identically in Igor 7 as in Igor 8



(Movie removed from pdf)

The screenshot displays two overlapping software windows on a Mac OS desktop. The left window, titled 'ToF-AMS Analysis Toolkit 1.57', features a menu bar with options like 'HDF Index', 'Corrections', 'MS', 'PTOf', 'Checks', and 'Misc'. It includes sections for 'Get Index', 'Checks for Stick Recalculations/Adjustments', 'Pre-Process Data', and 'ToDo Wave Selection'. The right window, titled 'ToF-AMS HR Analysis 1.16', has a menu bar with 'Set Up HR Fits', 'HR Ion Groups', 'HR Fits One Spectra', 'HR Fits for Many Runs', and 'HR Re'. It includes sections for 'Step 6i: Describe characteristics of HR results you want to generate.', 'Data, Output Options', and 'Step 6ii: Select the time series or average mass spectra type of result to generate.'. Both windows show a timeline plot at the bottom with a red and blue line representing data over time. The desktop background is a scenic image of a field with a tree. The dock at the bottom contains various application icons including Finder, Chrome, and several instances of a text editor.

(Movie removed from pdf)

After upgrading one does not need to perform ANY recalculations of data!

The only thing that needs to be 'redone' is the creation of panels, (i.e. the main squirrel, pika panels, m/z calibration panels etc. PToF DC marker graph, etc). You can just kill panels and recreate them via buttons in the main panels.

You do not have to upgrade 'incrementally'. You can go from Squirrel 1.55 to 1.64 in one upgrade.