

# Squirrel and Pika Upgrade Example

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# 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

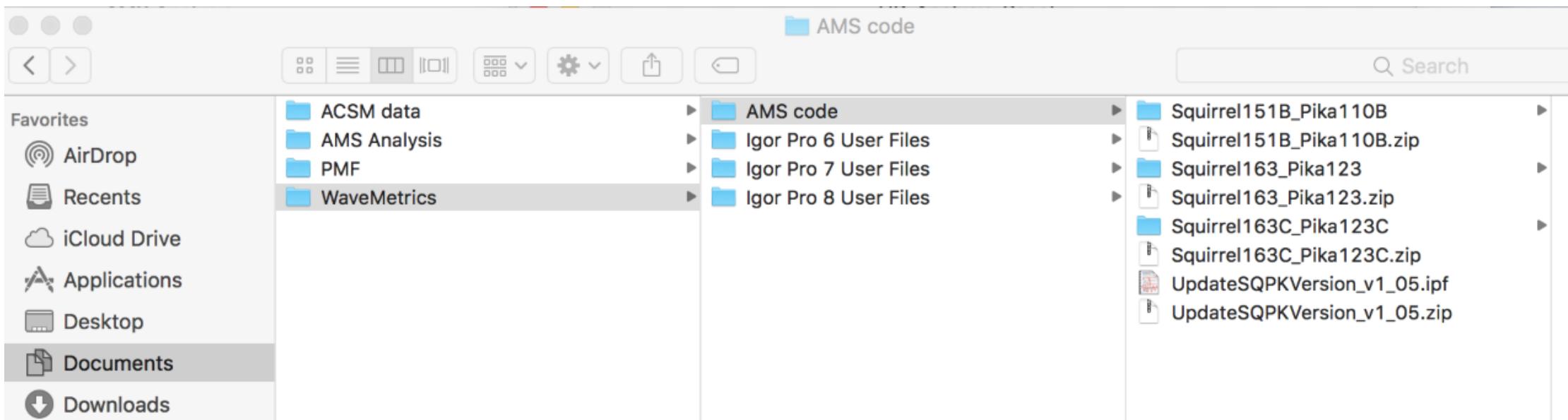
<http://cires1.colorado.edu/jimenez-group/ToFAMSResources/ToFSoftware/index.html>

The screenshot shows the TOF-AMS software downloads page. At the top, there is a navigation bar with tabs for Upgrade, SQUIRREL, PIKA, APES, SPARROW, and IE Calibration. The Upgrade tab is highlighted with a red circle. Below the tabs, there is a list of links: DAQ web site, Squirrel and PIKA Information Web Site, AMS Analysis Web Site, All Igor 6.x users must upgrade to at least Igor 6.37, All the latest code as of February 5 2020 has been tested on Igor 7.07 and Igor 8.04 and is compatible, and All Igor 7.x users are strongly encouraged to upgrade to at least Igor 7.07. A horizontal line separates this section from the next. Below the line, the text "Upgrade Existing SQUIRREL, PIKA Experiments" is displayed. A table below this text has columns for Version, Date, Release Notes, File Type, and File Type. The first three columns have entries: Version v1.05, Date 24-Oct-2019, and Release Notes v1.05. The last two columns are circled in red and have entries: 1.05 Igor Update ipfs (single ipf that compiles independently) and Zipped Procedures, ReadMe files (zipped ipf & readme file).

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

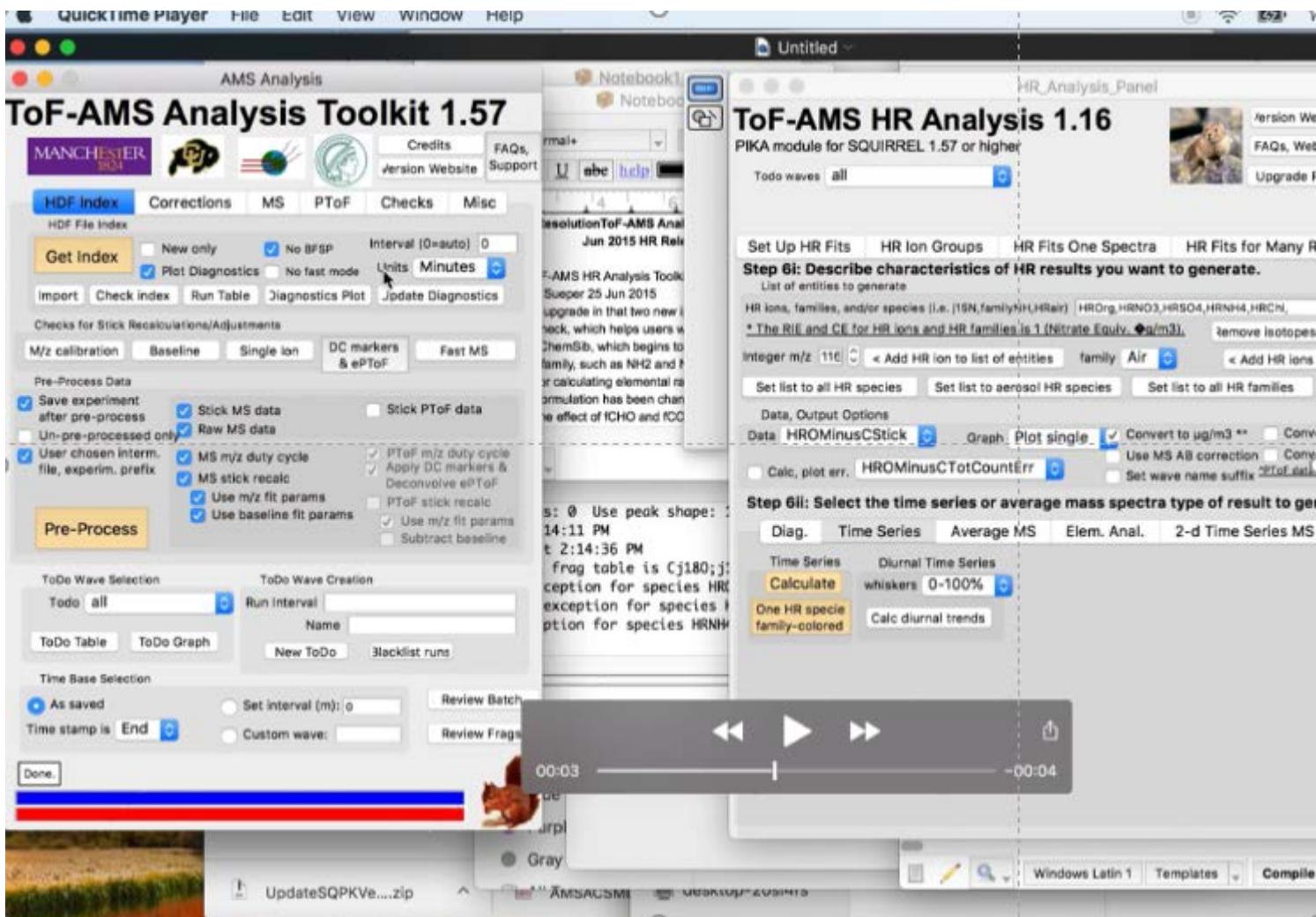
Keep the ipf and pxt files “strictly code” by themselves

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



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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

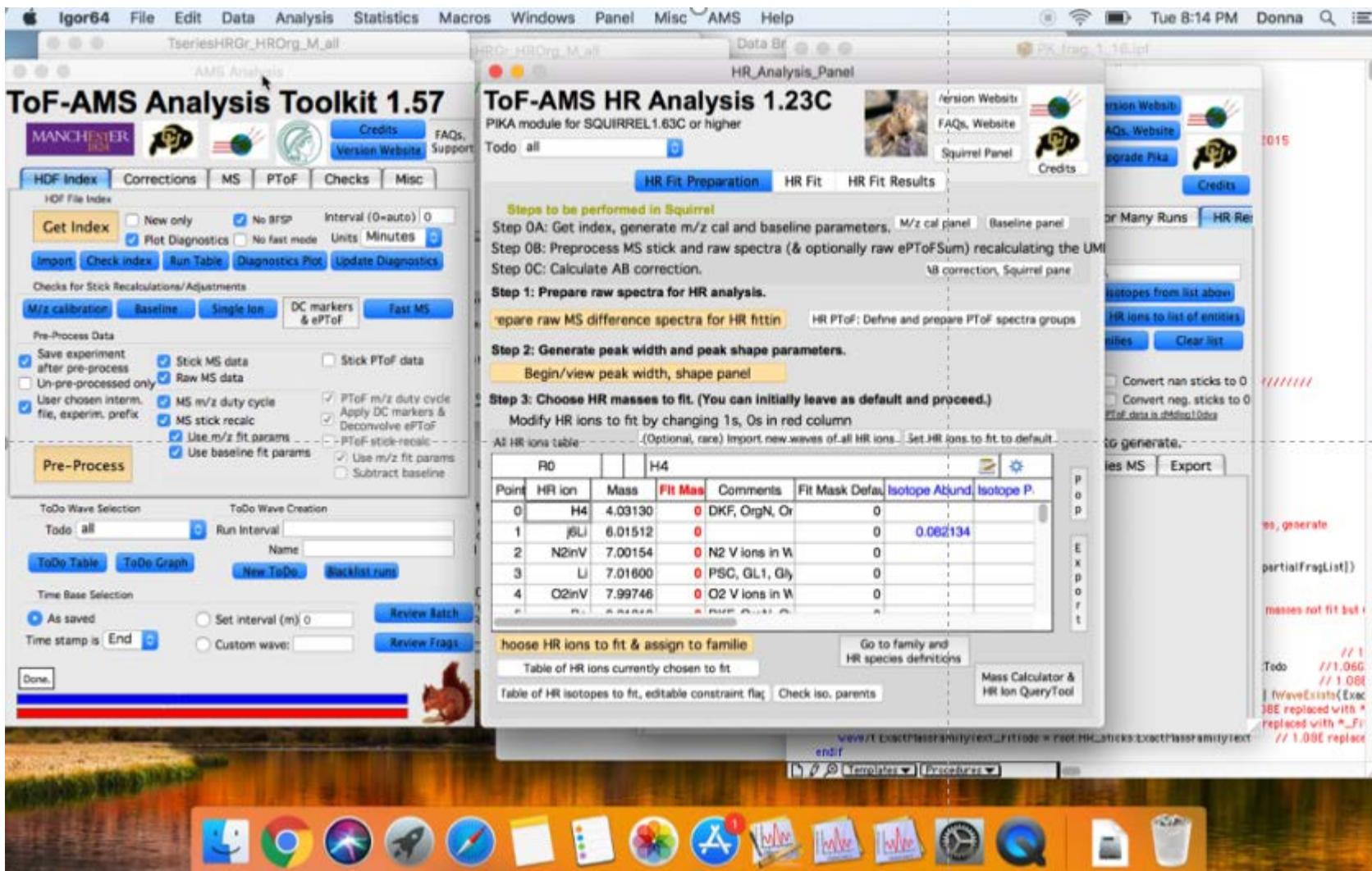


1) Load UpdateSQPKVersion.ipf into your experiment

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

3) Select folder that contains the folder from step 0

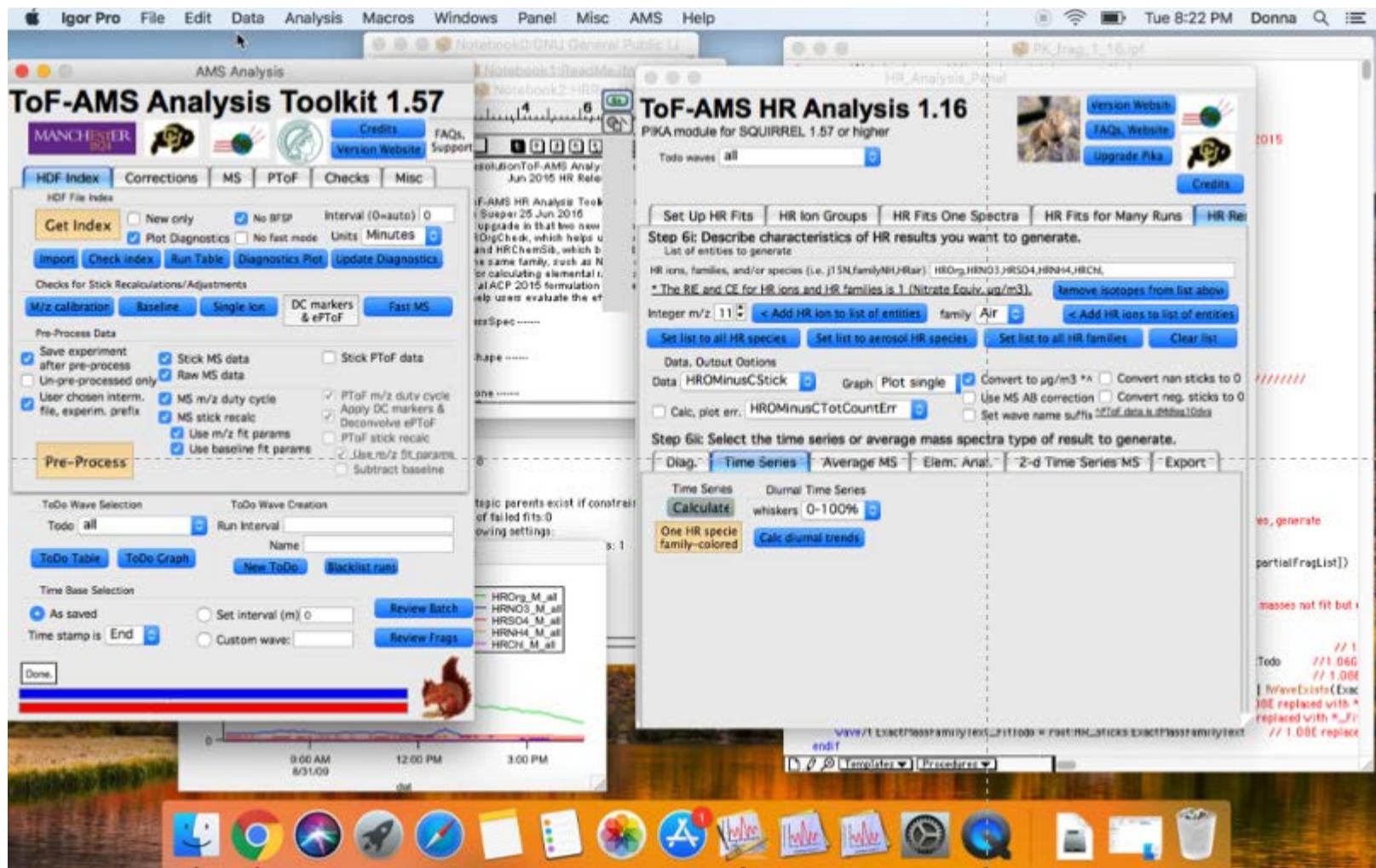
# Upgrading within Igor 7 example



(Movie removed from pdf)

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

# Upgrading within Igor 6 example



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Within Igor 6 , when upgrading via the ipf, one has to adopt each ipf individually, but this takes < 30 seconds. Everything else is the same.

# **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.