ZWURM, 13-09-2021 13:00 (ZWURM through Zoom because of #COVID19 house quarantaine/wk79)

Present Ilse, BobE, Aard, Des, Mark, Harro

Plenary announcements: YoshiakiH ("Hagi") will be spending a sabbatical year at ASTRON/JIVE starting somewhere in 2022; ESCAPE General Assembly is Sept 29th, but more important for us is the extended discussion day on Sept 28, open to anyone (https://indico.in2p3.fr/event/24690/overview); ADASS early bird registration deadline Sept 15; please supply a list of equipment required in case of permanent part-time working from home.

Mark: JIVE use cases not yet in ESCAPE WP3 Redmine project, started before holiday, will pick up this week. CASA/VLBI coord meeting before holiday was cancelled, maybe this week, will contact GeorgeM. Start preparing for VO workshop next week and have a slew of post-holiday email backlog to grovel through.

BobE: Continued svn -> git + doc conversion: not all modules were under svn, or not in same repo; now all ccs Python code is under git and in same repo. Problems: gitea requires upgrade to allow upload of PDF and repos can still only be private or public, not shared to group [ask Des to look into this]. Request BertH for backup s/w: send email if tape full (added); tape I/O errors do keep popping up every now + then, currently ~70TB backed up out of ~110TB on archive. Worked on showlog feature request to allow also non-prod jobs to be included. Will pick up work on archive website again.

Ilse: Approach to further spectral notebook development found: make changes and have supp.sci. do the scientific validation (supp.sci. difficult to persuade to make changes to the code). NRAO requested Des's memory-exhaustion fix be tested on a (very) large dataset, now setting up on casadev machine. ngEHT momentum: science requirements upcoming, tech working groups less momentum. Start preparing for next week's VO workshop; attended diversity training organized through NAEIC, NOVA ISC on instrument funding (which was interesting) and "Koffie met Klaas" — initiative by YanG to introduce new colleague by organizing series of informal coffee meetings with few people. Will be approaching volunteers about CASA VLBI paper.

Aard: OlgaB "No more disk space?" — Jupyterhub notebooks stored on "/" in stead of fast bulk storage (fixed). Attended WP3 progress workshop: progress by everyone looking good. JupyterLab seems broken: notebook w/ CSS (or Javascript) untrusted, meaning that if notebook saved and restarted, untrusted content doesn't get executed — in JupyterCASA the "log" button 100% affected by this, and notebook looks really bad w/o trusted content executed; known problem, open for long time, not sure if will be resolved, may resort to hacking JupyterLab code [MarkK: why not make it a config item, implement nicely and submit a PR]. e-VLBI over the weekend showed two (different) problems: Sat, C-band, all 2 Gbps stations rainy weights at same time during test, all OK during science; Sun

L—band rainy weights for only few stations. Sat problem: only difference scan lengths and gaps, and has mixed bandwidth; [MarkK: used debug button?] No, if rainy weights already too late; did observe up to 1.5s difference between outgoing VDIF streams — outstations have less channels, maybe introduces an asymmetry? Sunday problem: traced to two stations on aribox, machine only has eigh CPU cores, maybe not enough for two stations jive5ab + sfxc input node; taking aribox out solved rainy weights. Discussion on method to (automatically) decide how many stations can be processed on one flexbuff. Start on presentation for Baltic Applied Astroinformatics and Space data processing meeting.

Des: combining polarizations in fringefit does something: created a factory and a switch to control using it, when set fringefit only produces one result, not sure if it's the correct/expected result [MarkK: run on data where delay between R/L is tiny, should see SNR diff of sqrt(2) between combine on/off; do manual phasecal on strong source first, then test with weak source close in time to this cal source]. Now well informed about javascript + MongoDB, necessary for VRI since React in frontend doesn't allow client very much (e.g. file upload) — have to consult server. Got DOI sandbox credentials, can start to play around with those.