

Everyone -

Below are the notes and items I recorded during our last MMADC Project team meeting. Let me know if there is anything else you recorded.

(1) Kaufman to draft flight scenario and submit to Kaber by 3/26 (manual flying; ILS approach to KRNO; specify crosswinds for high workload condition). Draft scenario to Prinzel for NASA review by 3/28.

(2) Veil to test photometer from Psychology on static HUD images. Complete beta version(s) of application(s) for: brightness/contrast analysis, density analysis, grouping, saturation and occlusion. Due to Kaber by 4/15.

(3) Kim and Veil to develop table associating scales of multidimensional subjective measure of clutter with visual display properties to be measured in second experiment. Define additional properties of visual display to be measured to address all scales of subjective measure of clutter, including "redundant/orthogonal" [density, feature counts], "monotonous/variable" [change in luminance from frame to frame], "static/dynamic" [proportion of change in active pixels from frame to frame], and "colorful/monochromatic" [relative luminance, saturation]. Identify HUD images needed for visual property analysis. Identify images to be presented in videos to be recorded by NASA. Due by 4/15.

(4) Kim to develop schedule of display conditions for IFD programmers. (Change "turbulence" to "crosswind" in all experiment documents.) Kaber to send to display condition info to Prinzel by 3/28.

(5) Alexander to develop TLX forms for demand component rating (once after training trial) and demand ratings (at each HUD image change during each trial).

(6) Checkout for experiment will occur on 5/22-23. Attendees to include: Kaber, Kaufmann and Kim (both days); Stelzer (5/23); Alexander and Veil (optional).

(7) Full experiment scheduled for 6/2-19. Tentative division of responsibility:

Primary Experimenter: Kaber (6/2-5); Stelzer (6/9-12); Alexander (6/16-19).
[Kaber can substitute for Stelzer, depending upon Stelzer availability.]

- Brief subject
- Work in sim.
- Deliver experiment procedure.
- Administer all response measures.
- Record subject problems and equipment failures
- Verify data recording

Second Experimenter: Kim (6/2-5); Kim/Veil (6/9-12); Veil (6/16-19)

- Collect consent
- Escort subject on breaks and stage for trials
- Support primary experimenter by providing all needed forms on time

- Verify data integrity on completion of trials
- Handle debriefing

Confederate First Officer: Kaufmann (6/2-5); Prinzel (6/9-12); Kaufmann (6/16-19)

- Support pilot in executing flight scenario
- Fake communication with ATC
- Present clearances to pilot

Teams arrive on Sunday evenings (driving is preferable for cost). Use extended stay hotels (4 nights/wk.). Teams depart on Thursday evenings.

(8) Kaber, Kaufmann, Alexander and Stelzer to provide Prinzel with input on HUD features during prototyping. Prototypes to be complete by 5/22.

I would like schedule our next team meeting for April 17 from 3:30-5:00p. Please let me know your availability.

Dave Kaber