

Everyone -

Below are the notes and items I recorded during our MMADC Project team meeting this afternoon.

- (1) Complete instructions for subjects – by 5/21
  - Briefing (Kim); Training (Kaufmann, Kaber); Debriefing (Alexander, Stelzer)
  - (Training instructions should describe displays and how they work.
  - Training session should provide pilots with opportunity to experience speed and altitude changes.
  - Session should conclude with familiarization with workload/clutter rating forms.
  - Session should present HUD configuration not included in conditions for experiment and alternate crosswind condition (e.g., 165/10).)
- (2) Develop packet to be send to pilots in advance of scheduled experiment – 5/31
  - Informed consent (Kim)
  - PPT file summarizing experiment procedures and display features providing specific flight cues (Kim, Kaber, Prinzel)
- (3) Complete draft experiment matrix – 5/21 (Kim, Kaber)
  - Use existing experiment data collection table. Associate Case identifiers with each prescribed condition. Prepare single sheet for each group of subjects (HC, MC and LC).
- (4) Finalize additions to HUD visual property measurement software – 5/31 (Veil, Kaber)
  - Output histogram of pixel brightness for images.
  - Output histogram of contrast ratio for iconic vs. non-iconic images.
  - Provide capability for regional assessment of density.
  - Develop application to determine number of fixations for visual search of semantic groups in HUD.
  - Determine dynamic measures of luminance and target-to-background contrast.
- (5) New photometer purchase for experiment use – 5/31 (Kaber)
  - Veil to provide Kaber with quote.
- (6) Checklist to confirm experiment procedures and materials – 5/21 (Kaber)
- (7) Checkout for experiment will occur on 5/22-23. Attendees will include: Kaber, Kaufmann, Kim and Veil (both days); Stelzer and Alexander (5/23).
- (8) Full experiment scheduled for 6/2-19. Division of responsibility:
  - Primary Experimenter: Kaber (6/2-3); Alexander (6/3-5); Stelzer/Kaber (6/9-12); Kaber (6/16-19). [Kaber will substitute for Stelzer, depending upon Stelzer availability.]
  - Second Experimenter: Kim (6/2-5); Kim (6/9-11); Veil (6/11-12); Veil (6/16-19)
  - Confederate First Officer: Kaufmann (6/2-5); Allamandola (6/9-12); Kaufmann (6/16-19)

Contingency plan for 6/23-30: Kaber (primary experimenter); Veil (second experimenter); Allamandola/Prinzel (FO).

(All NCSU must file travel authorizations through ISE Department in advance. All transportation and accommodation arrangements must be approved with Kaber.)

Let me know if you have any other items. See you all at the Checkout next week!

Dave Kaber