

1. Region 3 – Southwest Region – Pete Joria and Bart Mathews. Our remote sensing is two-headed. Aerial photo is in GIS. RS is separate and focuses on satellite, lidar, and digital image processing (increasing overlap with aerial photography program). Two primary RS projects: mid-scale vegetation mapping of all forests/grasslands in the region, and Lidar. Vegetation Mapping – driving force is forest plan revision. Polygon based using eCognition for segmentation. Key participants are the Ecosystem Analysis and Planning and the Remote Sensing staffs (both from the Regional Office) and the forest/grassland staffs (important for their expertise and as stakeholders in the final products). Products are canopy cover, size class, and dominance type. Image sources range from Landsat 5, 7, resource photography, DOQs. Image interpretation, used a wide variety of variables (see briefing). Provided a status slide of this project. Will be completed early next calendar year. The Lidar project is in the Pinaleños Mountains on the Coronado NF in southeast AZ. Southernmost extent of spruce/fir forest type, which is habitat for the Mt. Graham Red Squirrel, a federally listed endangered species. Decades of fire exclusion, plus more recent drought led to insect outbreaks and wildfires threatening remaining habitat. Also famous for international observatory construction and lawsuits. Showed phases of the Lidar project. Phase 1 report of the Lidar project has some detailed Lidar Specs for mapping forest structure, base on work done in the Pacific Northwest. Phase 2 report documents processes to QA Lidar deliverables and convert to raster layers to be used in modeling forest structure. Bart to discuss photogrammetry. – went over all projects. The Kaibab and Lincoln National Forest were collected summer 2009. Lincoln National Forest had rejections, so re-flight scheduled summer 2010. Working with GSTC for ortho production on the Kaibab NF. Projects you will see increase in demand for ortho photography. Planning on flying Santa Fe and Coronado next summer. Planning 1 foot or better resolution. Open end Indefinite Delivery Indefinite Quantity (IDIQ) contract for geospatial/mapping services should award this next week. This IDIQ were serve as a contract vehicle for photogrammetry/survey related projects such as campground work and new road construction projects. Also

doing mine and pit mapping, photogrammetric projects. Several other projects to include rectifying older film, DEM, CAD/GIS large scale design standards, boarder mapping deployment, archiving film, inventory of ground control.

2. Rocky Mt. Region – Melinda M. – 2008 went digital piggy back Region 4. Progressive forest dealing with Mt. Pine Beetle. Sanborn did several forests in 2008. Received delivery of raw. Photo science using the stereo. DOT using it for corridors analysis, etc. A lot of use. Subbed for ortho the images. Ortho each frame then mosaic together. 16-bit data...large task, big files. QQ mosaics are around 3GB each. Frame orthos close to done. Sharing with Rocky Mountain NP. Mt. pine beetle epidemic, and need to manage mitigation; a big deal in the area. A NEMO is coming in to manage this; and will be using imagery for the projects. 2009 NAIP WY, CO, NE and were able to contribute significantly for the area of land in the area. This in conjunction with 2008 NAIP, region covered. Future contracts will attempt to bundle the ortho, if funding is available.