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| **Incident Name:**  BUCK FIRE  CA-SHF-001850 | **IR Interpreter(s):**  Kurt Teuber  kteuber@att.net | **Local Dispatch Phone:**  RICC (530) 226-2400 | **Interpreted Size:**  3,155 Acres  **Growth last period:**  396 Acres |
| **Flight Time:**  2254 PDT  **Flight Date:**  09/18/2017 | **Interpreter(s) location:**  South Lake Tahoe, CA  **Interpreter(s) Phone:**  530-386-0685 | **GACC IR Liaison:**  Kyle Felker  **GACC IR Liaison Phone:**  530-251-6112 | **National Coordinator:**  Liz McNichols  **National Coord. Phone:**  208-387-5900 |
| **Ordered By:**  John Casey  530-727-7045 | **A Number:**  A-22 | **Aircraft/Scanner System:**  N-144Z/Phoenix | **Pilots/Techs:**  Rob Navarro (IR Tech)  Nelson / Johnson (Pilots) |
| **IRIN Comments on imagery:**  Imagery was good, 1 strip. | | **Weather at time of flight:**  Cloudy. | **Flight Objective:**  Heat Perimeter and Detection |
| **Date and Time Imagery Received by Interpreter:**  09/18/2017 @ 2315 PDT | | **Type of media for final product:**  Shapefile, KMZ, Log, and GeoPDF.  **Digital files sent to:**  <http://ftp.nifc.gov/incident_specific_data/calif_n/!2017%20FEDERAL_Incidents/CA-SHF-001850_Buck/IR/20170919>  email: eyounger@fs.fed.us | |
| **Date and Time Products Delivered to Incident:**  09/19/2017 @ 0030 PDT | |
| **Comments /notes on tonight’s mission and this interpretation:**  The vicinity of the Buck Fire was completely cloud covered. However, enough heat was visible through gaps in the cloud cover to roughly estimate where the perimeter had expanded since the last mapping. I began mapping using the latest perimeter from the incident (EventPolygon in 20170918\_1000\_Buck\_SHF1850.gdb) as a starting point for this interpretation. Updates to the perimeter were made only where it was evident that heat had moved beyond the previously mapped perimeter. Most of the growth appeared to be on the north side of the fire, where the fire has crossed the East Fork of the South Fork of the Trinity River, and moved uphill towards Road 28N10. Several patches of intense heat were found in this area. Also, one small polygon with heat was found at the western edge of the fire, and an isolated heat source was detected at West Low Gap. This hot spot was labeled with Lat/Long coordinates on the maps.  It is likely that more heat actually exists on the ground, than could be mapped tonight due to the cloud cover. The estimated heat perimeter is a conservative estimate, as I chose to make updates where there was high confidence of heat on the ground, and avoided updates in areas that were unclear. I would recommend flying this fire again to get a better mapping of the heat perimeter and heat categories.  Please let me know if there are any questions, comments or requests for additional IR products. I appreciate any feedback.  Thank you,  Kurt Teuber (IRIN)  530-386-0685  kteuber@att.net | | | |