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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:**  3,232 Acres  **Growth last period:**  77 Acres |
| **Flight Time:**  2124 PDT  **Flight Date:**  09/19/2017 | **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-25 | **Aircraft/Scanner System:**  N-144Z/Phoenix | **Pilots/Techs:**  Rob Navarro (IR Tech)  Boyce / Johnson (Pilots) |
| **IRIN Comments on imagery:**  Imagery was good, 1 strip. | | **Weather at time of flight:**  Cloudy. | **Flight Objective:**  Heat detection and mapping |
| **Date and Time Imagery Received by Interpreter:**  09/19/2017 @ 2145 PDT | | **Type of media for final product:**  GeoPDF maps, Zipped Shapefiles, IR Log file, KMZ file.  **Digital files sent to:**  <http://ftp.nifc.gov/incident_specific_data/calif_n/!2017%20FEDERAL_Incidents/CA-SHF-001850_Buck/IR/20170920>  email: eyounger@fs.fed.us | |
| **Date and Time Products Delivered to Incident:**  09/19/2017 @ 2325 PDT | |
| **Comments /notes on tonight’s mission and this interpretation:**  The vicinity of the Buck Fire was again completely cloud covered, for a second night. Although only a few heat signatures were visible through the clouds, some new areas of heat and growth were found in the northeast section of the fire. 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 heat perimeter from the previous evening (20170918\_2254\_Buck\_HeatPerimeter.shp) 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. The growth that was mapped is located on the northeast side of the fire (South ½ Sec. 33), on a ridgeline above and south of the East Fork of the South Fork of the Trinity River. One polygon of intense heat and a cluster of isolated heat sources were found in this area. A total of 17 isolated heat sources were found throughout the fire.  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 | | | |