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## THE TOP 200 CANDIDATES FROM 25 YEARS OF BERKELEY SETI

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We describe the top 200 candidate signals from the SERENDIP, SETI@home, and ASTROPULSE radio sky surveys. In March 2003, we used dedicated telescope time to conduct follow up observations of these candidates. We present results from these as well as other follow up observations. We also present results from Berkeley's 15,000 star optical SETI program and plans for the new SERENDIP V multibeam sky survey at Arecibo.

SETI@home and SERENDIP use a dedicated receiver to conduct piggyback observations at the 300meter Arecibo radio telescope; observations have been conducted continuously for the past 5 and 10 years respectively and are ongoing. Most beams on the sky visible to the Arecibo telescope have been observed three or more times. Candidate signals are ranked based on the number of independent observations; the strength of the candidate signals; the closeness of the candidate signals in frequency and sky position; and the proximity of the candidate to nearby stars, planetary systems, galaxies, and other interesting astronomical objects.

Five million volunteers in 226 countries have joined the SETI@home search. Combined, these SETI@home volunteers have formed Earth's most powerful supercomputer, averaging 60 teraflops and contributing over two million CPU years.