

Jackson Purchase CBL, 1/2

US DEPARTMENT OF COMMERCE - NOAA
 NOS - NATIONAL GEODETIC SURVEY
 SILVER SPRING MD 20910 - July 11, 2002

CALIBRATION BASE LINE DATA
 BASE LINE DESIGNATION: JACKSON PURCHASE CBL
 PROJECT ACCESSION NUMBER: 15458
 NEAREST TOWN: MURRAY

QUAD: N360881
 KENTUCKY
 CALLOWAY COUNTY

LIST OF ADJUSTED DISTANCES (May 28, 2002)

FROM STATION	ELEV.(M)	TO STATION	ELEV.(M)	ADJ. DIST.(M) HORIZONTAL	ADJ. DIST.(M) MARK - MARK	STD. ERROR(MM)
0 M 2001	173.880	150 M 2001	173.030	149.9406	149.9430	.1
0 M 2001	173.880	430 M 2001	171.800	430.0136	430.0186	.2
0 M 2001	173.880	1400 M 2001	171.840	1399.9917	1399.9932	.2
150 M 2001	173.030	430 M 2001	171.800	280.0730	280.0757	.1
150 M 2001	173.030	1400 M 2001	171.840	1250.0511	1250.0517	.2
430 M 2001	171.800	1400 M 2001	171.840	969.9780	969.9780	.1

DESCRIPTION OF JACKSON PURCHASE CALIBRATION BASE LINE
 YEAR MEASURED: 2001
 LATITUDE: 36 39 42 N
 LONGITUDE: 088 22 49 W
 AZIMUTH: 52 DEGREES TRUE NORTH
 CHIEF OF PARTY: JRM

THE BASE LINE IS LOCATED ABOUT 9.0 KM (5.6 MI) NORTHWEST OF MURRAY ON THE GRASSY AREA NORTHWEST OF THE MAIN RUNWAY AT KYLE FIELD, MURRAY-CALLOWAY AIRPORT. FOR PERMISSION TO ENTER AIRPORT, CALL AIRPORT MANAGER, JOHNNY W. PARKER, AT 270-489-2414 PRIOR TO ARRIVAL.

THE BASE LINE IS A NORTHEAST-SOUTHWEST BASE LINE WITH THE 0-METER POINT ON THE SOUTHWEST END. IT CONSISTS OF THE 0, 150, 430, AND 1400 METER POINTS WITH A 100-FOOT TAPE CALIBRATION STATION LOCATED ON LINE AND NORTHEAST OF THE 0-METER POINT.

Jackson Purchase CBL, 2/2

TO REACH THE 0-METER POINT FROM THE JUNCTION OF U.S. HIGHWAY 641 AND STATE HIGHWAY 121 ON THE NORTH SIDE OF MURRAY, GO NORTHWEST ON STATE HIGHWAY 121 FOR 4.2 KM (2.6 MI) TO THE JUNCTION OF STATE HIGHWAY 783 (AIRPORT ROAD) ON THE RIGHT. TURN RIGHT AND GO NORTH ON STATE HIGHWAY 783 FOR 2.9 KM (24 MI) TO THE JUNCTION WITH AIRFIELD LANE TO THE LEFT. GO WEST ON AIRFIELD LANE FOR 0.89 KM (0.55 MI) TO THE AIRPORT OFFICE AND GATE TO THE LEFT. PASS THROUGH THE GATE AND FOLLOW TAXIWAY SOUTHWEST TO END OF RUNWAY. PROCEED NORTHWEST ACROSS END OF THE RUNWAY AND TAXIWAY AND THEN NORTHEAST ALONG THE NORTHWEST SIDE OF THE MAIN RUNWAY TO THE 0-METER POINT IN THE GRASSY AREA NORTHWEST OF THE INTERSECTION OF THE MAIN RUNWAY WITH THE FIRST CROSS OVER NORTHWEST OF THE SOUTHWEST END OF THE RUNWAY.

THE 0-METER POINT IS A STANDARD NGS CALIBRATION BASE LINE DISK STAMPED "0 M 2001" SET IN THE TOP OF A 50 CM (18 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 17.6 M (58 FT) NORTHWEST OF THE FIRST RUNWAY LIGHT NORTHEAST OF THE FIRST CROSS OVER NORTHEAST OF THE SOUTHWEST END OF THE RUNWAY, 20.4 M (67 FT) PERPENDICULAR TO THE NORTHWEST EDGE OF THE RUNWAY, AND 19.5 M (64 FT) SOUTHWEST OF A CONCRETE MARKER FLUSH WITH THE SURFACE OF THE GROUND LABELED "SPICE".

THE 150-METER POINT IS A STANDARD NGS CALIBRATION BASE LINE DISK STAMPED "150 M 2001" SET IN THE TOP OF A 50 CM (18 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 17.6 M (58.1 FT) SOUTHWEST OF THE FOURTH RUNWAY LIGHT NORTHEAST OF THE FIRST CROSS OVER FROM THE SOUTHWEST END OF THE RUNWAY, 20.4 M (65.8 FT) NORTHWEST OF AND PERPENDICULAR TO THE EDGE OF THE RUNWAY, AND 58.8 M (192.9 FT) NORTH OF THE THIRD RUNWAY LIGHT NORTHEAST OF THE FIRST CROSS OVER.

THE 430-METER POINT IS A STANDARD NGS CALIBRATION BASE LINE DISK STAMPED "430 M 2001" SET IN THE TOP OF A 50 CM (18 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 34.1 M (112 FT) NORTHWEST OF THE SECOND RUNWAY LIGHT NORTHEAST OF THE SECOND CROSS OVER, 19.1 M (62.6 FT) NORTHWEST OF AND PERPENDICULAR TO THE EDGE OF THE RUNWAY, AND 32.6 M (107 FT) SOUTHWEST OF THE THIRD RUNWAY LIGHT NORTHEAST OF THE SECOND CROSS OVER.

THE 1400-METER POINT IS A STANDARD NGS CALIBRATION BASE LINE DISK STAMPED "1400 M 2001" SET IN THE TOP OF A 50 CM (18 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 32.3 M (106 FT) NORTHWEST OF THE THIRD RUNWAY LIGHT SOUTHWEST OF THE NORTHEAST END OF THE MAIN RUNWAY, 15.4 M (50.4 FT) PERPENDICULAR TO THE RUNWAY, AND 33.5 M (110 FT) SOUTHWEST OF THE SECOND RUNWAY LIGHT SOUTHWEST OF THE NORTHEAST END OF THE RUNWAY.

THE 0-FOOT TAPE CALIBRATION STATION IS THE 0-METER POINT.

THE 100-FOOT TAPE CALIBRATION STATION IS A STANDARD NGS CALIBRATION BASE LINE DISK STAMPED "100 FT" SET IN THE TOP OF A 50 CM (18 IN) DIAMETER CONCRETE POST FLUSH WITH THE SURFACE OF THE GROUND. IT IS 17.7 M (58.0 FT) SOUTHWEST OF THE SECOND RUNWAY LIGHT NORTHEAST OF THE FIRST CROSS OVER, 20.4 M (67.0 FT) NORTHWEST OF AND PERPENDICULAR TO THE RUNWAY, AND 25.3 M (83.0 FT) NORTHWEST OF A CONCRETE MARKER FLUSH WITH THE GROUND LABELED "SPICE". THE 100-FOOT TAPE STATION WAS ESTABLISHED BY EDM1 METHOD. THE TAPE CALIBRATION DISTANCE FROM THE 0-METER POINT (MARK TO MARK DISTANCE) IS 30.4791 M (99.9967 FT) FROM THE 0-METER POINT (MARK TO MARK DISTANCE).

USER NOTES: CBL USERS SHOULD TAKE CARE IN PLUMBING OVER ALL POINTS. ELEVATIONS ARE FOR CBL USE ONLY.

THIS CALIBRATION BASE LINE WAS ESTABLISHED IN CONJUNCTION WITH THE JACKSON PURCHASE CHAPTER OF THE KENTUCKY ASSOCIATION OF PROFESSIONAL SURVEYORS, THE MURRAY-CALLOWAY COUNTY AIRPORT BOARD, AND THE DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY OF MURRAY STATE UNIVERSITY. ALL CBL USERS MUST REGISTER AT THE AIRPORT OFFICE BEFORE GOING TO THE BASE LINE SITE.

FOR MORE INFORMATION PLEASE CONTACT J. ROSS MACKAY, NATIONAL GEODETIC SURVEY, OFFICE FOR GEOGRAPHIC INFORMATION, 21 MILLCREEK PARK, FRANKFORT, KY 40601 PHONE: 502-573-0189 OR CALL THE KENTUCKY ASSOCIATION OF PROFESSIONAL SURVEYORS AT 1-800-866-3029.