

PROJECT					FIELD SHEET, MICRO-CHAIN DATA ENTRIES For use of this form, see FM 3-34.331; the proponent agency is TRADOC.								
ORGANIZATION					DATE (YYYYMMDD)				APPROX. DISTANCE				
AZ. OF LINE		MEAN LATITUDE		CALIBRATION DATE	OBSERVER				RECORDER				
MASTER STATION				H. I.	ELEV.		ELEV. INST.		ECCENTRICITY		INSTR. NO.		
REMOTE STATION				H. I.	ELEV.		ELEV. INST.		ECCENTRICITY		INSTR. NO.		
METEOROLOGICAL READINGS					CHANNEL								
		TIME	PRESS. ALT.	TEMPERATURE		6	5	4	3	2	1	2-1	FREQ.
				DRY (t)	WET (t')								
MASTER INITIAL													1 HI
REMOTE INITIAL													2 HI
MASTER FINAL													3 HI
REMOTE FINAL													4 HI
SUM					1. INDICATE ° C OR ° F TEMPERATURE. 2. RECORD CORRECTED ALTIMETER READING IF USED. 3. ALWAYS ZERO THE <i>NULL INDICATOR</i> WITH A CLOCKWISE ROTATION OF THE DIAL.								5 HI
MEAN													
BAROMETRIC PRESSURE (P)					"HG		4. ALWAYS ZERO THE <i>NULL INDICATOR</i> WITH A CLOCKWISE ROTATION OF THE DIAL.						
B	A												
e'				"HG									
Δ e				"HG									
e				"HG									
N		η	1,000										
PRESET REFRACTIVE INDEX		1.000325			6	5	4	3					
REFRACTIVE INDEX DEVIATION													
DIFF. OF ELEV.													
MEAN ELEV.													
MEAN RADIUS OF CURVATURE													
M6					M6	M5	M4	M3					
M5													
M4													
M3													
M2													
UNCORRECTED DISTANCE (UD)													
ZERO CORRECTION* (Z)													
REFRACTIVE INDEX CORR. (RC)													
SLOPE DISTANCE (T)													
HORIZONTAL DISTANCE (H)													
ECCENTRIC CORRECTION													
CHORD-ARC CORRECTION (K)													
SEA-LEVEL REDUCTION (C)													
GEODETIC DISTANCE (S)													
REMARKS													
COMPUTED BY				DATE (YYYYMMDD)		CHECKED BY				DATE (YYYYMMDD)		PAGE OF	

$B = \frac{4730}{459.688 + t}$
 $A = \frac{8540}{459.688 + t}$
 $X = \frac{4730}{459.688 + t}$

$e = e' \Delta e$
 $N = BP +$
 $\eta = 1 + -6N$

$RD = 1.000325 \cdot \eta$
 $RC = UD \times RD$

$T = UD \pm Z \pm RC$
 $H = \sqrt{(T^2) - (d^2)}$

$K = \frac{H^3}{24 p^2}$
 $C = -H \frac{h}{p} + H \frac{h^2}{p^2}$

or

$K = 1.027 H^3 \times 10^{-15}$
 $S = H + K + C$

* Obtained from Instrument Calibration.

NOTE: Apply eccentric correction to H before computing K and