SATELLITE IMAGE ANALYSIS WORKSHEET (v 2.0)

LANDMARK : _____

LATITUDE lat : _____DEG _____MIN _____SEC N/S = _____ decimal DEG N/S

LONGITUDE lng : _____DEG _____MIN _____SEC E/W = _____ decimal DEG E/W

HEIGHT DETERMINATION:

B = BASELINE: _____ METERS

a = ALTITUDE: _____ DEGREES

h = HEIGHT = B*TAN(a) = _____ METERS

MAP SCALE:

MAP IMAGE PIXELS HORIZONTAL : _____ PIXELS

MAP IMAGE PIXELS VERTICAL : _____ PIXELS

OBJECT: _____

MEASURED LENGTH IN REAL WORLD : _____ METERS

MEASURED LENGTH ON MAP : _____ PIXELS (CM if using printout)

MAP SCALE : K = REAL WORLD/MAP = _____ METERS/PIXEL (or METERS/CM)

SHADOW MEASUREMENTS:

SHADOW LENGTH ON IMAGE : L = _____ PIXELS (or CM)

SHADOW TRUE LENGTH : s = L * K = _____ METERS

SHADOW ANGLE TO NORTH : C = _____ DEGREES

SOLAR AZIMUTH ANGLE : Z = _____ DEGREES

SOLAR ALTITUDE ANGLE : A = Arctan(h/s) = _____ DEGREES

TIME CALCULATION

PHI = _____ DEGREES

TIME (UTC) = _____

LOCAL TIME = _____

DATE CALCULATION

DEC = _____ DEGREES

DAY1 = _____ DAY2 = _____

DATE1 = _____ DATE2 = _____