



LASC PROTOCOL ONE-ALPHA-FIVE-NINER, 2130, MESSAGE TO
COMMANDER NORTON, LONG RANGE SURVEY CRAFT ENDEAVOR,
THIRD ORDER ENCRYPTION, YOUR EYES ONLY. FROM UNITED
PLANETS HQ, LUNA

ASTEROID ///RAMA/// MISIDENTIFIED **STOP** NOW BELIEVED TO
BE ARTIFACT **STOP** COURSE CHARTED FOR SOLAR INTERCEPT
AND CONFIRMED DUE TO EFFECTS OF SOLAR GRAVITATIONAL
PULL **STOP** RADIO SIGNALS ABSENT **STOP** ENDEAVOR IS TO
APPROACH WITH CAUTION AND EXPLORE **STOP** ENDEAVOR TO
TAKE MAXIMUM PRECAUTIONS DURING RENDEZVOUS ATTEMPT

ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT

ENDEAVOR FUEL SUPPLIES DETERMINED TO BE INSUFFICIENT
FOR RETURN TO BASE POST-RENDEZVOUS **STOP** HQ WILL DEPLOY
FUEL TANKERS TO THE CALCULATED VICINITY OF ENDEAVOR/
RAMA SEPARATION **STOP** WARNING: TANKER ARRIVAL IN
VICINITY WILL OCCUR 11.4 DAYS FOLLOWING MAXIMUM SAFE
DURATION OF RENDEZVOUS WITH RAMA.

PROTOCOL FOLLOWING: ARTIFACT DATA

LASC PROTOCOL FOUR-BETA-ONE-NINER, 2130, MESSAGE TO
COMMANDER NORTON, LONG RANGE SURVEY CRAFT ENDEAVOR,
THIRD ORDER ENCRYPTION, YOUR EYES ONLY. ARTIFACT DATA
SURVEY FROM MARS BASE, SPACEGUARD

SHAPE: CYLINDRICAL

POLES: CONVEX, UNIDENTIFIED STRUCTURES NEAR CENTER OF
SUNWARD POLE AXIS

LENGTH: 50KM ± .1KM

DIAMETER: 20KM ± .1KM

MATERIAL: UNKNOWN METALLIC CONTENT

LUMINOSITY: 0.58

MASS: 8×10^{15} KG ± 0.2×10^{15} KG

DENSITY: 1.7 G/CUB. CM. WHICH INDICATES RAMA IS HOLLOW

ROTATIONAL VELOCITY: .25 RPM WITH ANY POINT ON SURFACE
OF CYLINDER TRAVELING AT VELOCITY OF 1000 KM/HR

ANGULAR VELOCITY: 15 REV/HR

VELOCITY WITH RESPECT TO SUN: 245 ± 2 KM/SEC

VELOCITY WITH RESPECT TO ENDEAVOR: 240 ± 2 KM/SEC

ACCELERATION: 0.02 KM/SEC/HR, INCREASING DUE TO SOLAR
GRAVITATION

ORBIT: DETERMINED TO BE NON-ELLIPTICAL, NON-ASTEROIDAL

COURSE: TOWARD SUN



HISTORY: EARLY MISIDENTIFICATION AS ASTEROID DUE TO DISCOVERY OUTSIDE JUPITER ORBIT **STOP** REVISED ID BASED ON ABSENCE OF LIGHT CURVE **STOP** DATA INDICATES RAMA IS PERFECTLY SYMMETRICAL

ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT

RAMA ON DIRECT COURSE TO SOLAR IMPACT **STOP** VELOCITY INCREASING DUE TO SOLAR GRAVITATIONAL FORCE **STOP** MISSION CLASSIFIED WITH DANGER FACTOR OF 98.274 **STOP** ADVISE HASTE IN RENDEZVOUS AND PRECAUTIONS AGAINST DELAYS

PROTOCOL FOLLOWING: TACTICS

LASC PROTOCOL NINER-GAMMA-EIGHT-ZERO, 2130, MESSAGE TO COMMANDER NORTON, LONG RANGE SURVEY CRAFT ENDEAVOR, THIRD ORDER ENCRYPTION, YOUR EYES ONLY, FROM MARS BASE, SPACEGUARD

ADDITIONAL DATA REGARDING: RENDEZVOUS WITH RAMA

PROBES CONFIRM FOLLOWING DATA USEFUL DURING INTERCEPT WITH ARTIFACT **STOP** ADVISE CONSIDERATION OF DATA ONLY IF MISSION MOVES INTO DELAY-AVOIDANCE MODE REPEAT ADVISE CONSIDERATION OF HINTS ONLY IF NECESSARY

Rama Hints

MONKEY HOUSE	DBCMF 4 UIFO HPMEJF, DPNF
NORTH FACE	UVSO XIFFM SJMIU
PILLBOX	QSTT BMM 4 HPMEJF IFMQT
AIRLOCK	XIJUF UIFO CMVF
RECTANGLE BUILDING	HPMEJF UTF MJOE
SPIDER ROOM	UISPX OFU
TUNNEL	4 QSPOHT JO LOPC
DIM ROOM	QSFTT EPNF
SEA	PQFO QFMMFU
FURROW	MBTFS
FLOWER	DVU XJUI GJMF
GLOBE	FYBNJOF UIFO QSFTT
	TTBMM EJTL
LIGHT SHAFT	FOUFS MJHIU
KIOSK	ASFTT 4 CBST
HUB	PQFO ESBHPOGMZ DBTF
SQUARE DOOR	GMPXFS
TRIANGLE DOOR	BMM USJBOHMFT PO
SPONGE	HPMEJF
BIGHORN	BWPJE HSBUF
TILE	UVSO XIFFM BOE IPME PO
CAGE	QVMM EPPS EPXO
SCALE	ESPQ BMM
COLUMNS	DPQZ UVOF
POD AREA	DMJNC PO
ENGINE ROOM	HPMEJF XJUI HMPCF EPXO
	CMVF IBUDIXBZ

BCDEFGHIJKLMNOPQRSTUVWXYZA 1 2 3 4 5 6 ,
 ABCDEFGHIJKLMNOPQRSTUVWXYZ 0 1 2 3 4 5 ,