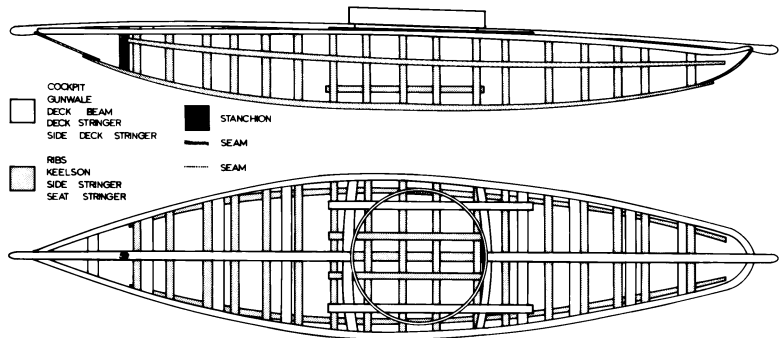


TRIB AND KEELSON JOINT AND LASHING

GUNWALE, DECKBEAM AND RIB JOINTS



THIS KAYAK WAS PROBABLY COLLECTED BY JOCHELSON DURING HIS 1910 ARCHAEOLOGICAL EXPEDITION TO KAMCHATKA AND SENT TO THE PRIVATE MOSCOW MUSEUM OF HIS SPONSOR RYABUSHINSKI.

THE CONSTRUCTION IS VERY CRUDE AND GIVEN MEASUREMENTS ARE NOMINAL AS INDIVIDUAL PIECES OF THE FRAME VARY GREATLY. A NUMBER OF RIBS ARE ATTACHED TO THE SIDE STRINGERS WITH WOODEN PEGS ABOUT 3MM IN DIAMETER WHILE OTHERS ARE LASHED WITH SINEW. THE COAMING LASHINGS HOLES ARE ON APPROXIMATELY 5.9 CM CENTERS, 3.1 CM FROM THE TOP. THE COAMING AVERAGES 7 CM IN HEIGHT. DECK BEAMS ARE MORTISED INTO THE CENTER OF THE GUNWALES. THE SIDE DECK STRINGERS APPEAR TO BE SPLIT SAPLINGS. SOME DECK BEAMS ARE SQUARE TIMBERS, SOME HALF-ROUND WITH A FLAT SECTION ON TOP, WHILE MOST HAVE A RECTANGULAR CROSS SECTION WITH ROUNDED CORNERS. THE AFTERMOST DECK BEAM MEASURES 3.8 CM WIDE BY 13 CM THICK. THE KEELSON IS "V" SHAPED IN CROSS-SECTION FOR MOST OF ITS LENGTH, BUT FLATTENS OUT IN THE ENDS WHERE IT IS JOINED WITH A PLAIN SCARF.

OFFSETS - CENTIMETERS TO OUTSIDE OF SKIN											
SECTIONS	STEM	1	25	50	100	150	200	250	300	STERN	
RIBS TO KEELSON	DECKRIDGE	33.7	37.1	36.1	36.2	36.4	37.3	26.7	25.7		
	SHEER	33.7	33.1	33.2	34.1	32.3	28.0	25.2			
	GUNWALE	31.7	30.7	30.5	30.9	26.1	25.7	22.6			
	CHINE	26.8	24.8	21.8	21.2	20.6	18.9				
	KEELSON	23.0	12.0	4.0	2	6	3.8	9.1			
	SHEER	7.3	15.2	29.2	32.4	32.6	24.6	13.9			
	GUNWALE	7.2	11.7	25.2	25.3	32.2	23.3	13.6			
	CHINE	13.9	24.7	26.7	25.9	19.7	7.4				
	KEELSON	4	3	3	3	3	8	6			

KORYAK KAYAK

MUSEUM OF ETHNOGRAPHY
OF THE PEOPLES OF THE
U.S.S.R., LENINGRAD

MEP 11413 D
LENGTH 10' 6" 322.5
BEAM 28" 71.0
DEPTH TO SHEER 13" 34.5
WEIGHT 42.3 lbs 19.2 kg
PROBABLY COLLECTED CIRCA 1910
SCALE 1:8 (IN CENTIMETERS)
NOTE ALL MEASUREMENTS IN CENTIMETERS
LWL (LOAD WATERLINE) BASED ON 68 kg
(150 lb.) MAN SEATED 170.2 cm FROM BOW.
CP (PREMATIC COEFFICIENT) .56
THEORETICAL TOP SPEED 3.8 KNOTS
HULL DISPLACEMENT 59.2 lbs 235.5 kg

LINES AND CONSTRUCTION DETAILS

LOADED KAYAK UNSTABLE AT 45° HEEL

SHEET 1 OF 1

LINES TAKEN OFF BY DAVID W. ZIMMERLY,
NOVEMBER 1975
DRAWN BY CHERYL SKEAN, 1977