		Can 2	Can 3
		. —	
EYB	. 567	-,218	183
нги	. 604	057	080
NI.H	, 596	064	113
ит.п	249	072	437
нав	. 357	204	362
OBIL	. 562	048	049
088	. 265	402	164
IMB	. 551	.026	138
555	.038	492	.068
FHR	. 163	408	101
HAS	.126	-,)80	.422
EKO	. 248	321	193

(microsof)

| Coldinate | Cold

FIGURE 7. Three-dimensional plot showing relationship of the Spirit Cave male to world populations using face height, breadth, and projection variables.

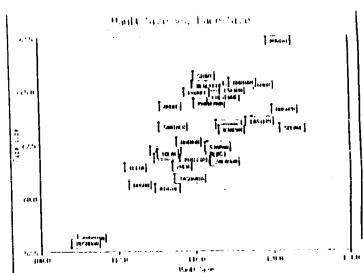


FIGURE 8. Plot of cranial vault and face size showing relationship of the Spirit Cave male to world male sample

There is a positive relationship between vault size and face size evident in the plot, but some independent variation as well. Amerindians can be characterized as possessing large faces and about average vaults. In contrast, the Spirit Cave individual has a large vault and an average sized face. Spirit Cave is most similar to Polynesian populations in vault and face size relationships.

General Analysis

DOI 01721

The foregoing provides similarities of the Spirit Cave individual to world populations based on specific morphological complexes. The final stage in the analysis is to obtain an overall assessment. Table 11 gives the distances and the posterior probability of those distances of the Spirit Cave individual from all samples in the world data base, sorted from smallest to largest distance. There is a distinct pattern to be seen in these distances. Two of the three closest populations (Norse and Zalavar) are European. Ainu, the second closest, shares some of the morphometric features attributed to Europeans. In fourth and fifth position are two Amerindians, Blackfeet and Numic respectively. The next set, except for Egypt, consists of East or Southeast Asians. The posterior probabilities indicate that the only reasonable classifications are Norse, Ainu or Zalavar. However, the typicality probability for Norse is 0.00084, and all other populations are of course lower. Therefore the major conclusion is that the skull falls outside the range of variation of any modern population represented by currently available samples.