Mr G. Davidson The Ross Institute, Keppel St. London WT, Hotel Vatel
Come pipe (CUREPIPE)
9.3.62

MAURITIUS.

Dear Mr Dandson,

here read it with the greatest interest. There also had the privilege this week of discussing the work we have been dong on gambias with Peter Mattingly. May I say thes-I agree with you that your evidence is best interpreted as indicating that your two groups are separate species, Especially when one takes Coronels evidence of the presence of both at. Disgi. I believe that it will be shown that at Muheza, Tayangika, botho forms are present. When I performed my crosses with Sis gambiae I used a colony from Muheza which 18rested & which, infortamately, is now Extract, as well as the Kisumun colony (presumably the one which you place in group A). If you look at my figures for egy lengths + sex ratios for my crosses (Amani Annual Report) and also Kuhlows figures, you will notice there is some evidence of differences between the two freshwater Colonies. Kullows Muheza colony (the one you tested, perhaps?) agrees better With the Kisumu figures for sex ratio in the F. generations. I have funder evidence that my Muhiza Colony might have been group B. When I read Holstein guntial Chromosome paper Institued his remortes that certain

Colonies from Tayangika when croned gone rise to Sterile offspring. For this reason I cromed my tro FW colonies. I do not have my notes here but I remember that in the Fi I got an excellent hother (±90%) and that the larrare reached the pupal Grage with no martality thooked most vigorous but that the energy adults were very feethe. Unfortunately I was Snowed under the did not examine these adults closely 50 I do not I more warmen these and the sedered. I believe I time the Sex ratio figures though. Notice also the difference in egg Size between the two FW colonies. May I make apart suggestions and remarks about your paper?

cross when you while up this work: serrations for Fi's & back coresses, egg neasure news for colonies (not pools from colonies), not es on the feebleness or otherwise of your hybrids when they emerge from the pupal. I should like to see these details for the crosses in both directions. It is not quit clear to me, though lassure it is so, that the A males of your crosses A×B × B×A are with at rophied testes. Coronel's figures in her table I are presumably pooled figures. It would be nice to here these measurements + egg himsure.

Your data on p3 dllows a second possibility namely that you may be dealing with a "Super

gene" - a proup of closely liked factors (possibly held topten by an inversion) offeeting fertility in the male Itwill not be possible to distringuish between these
possibilities at this stage but it should be
realized that the evolutioning inplications of
the two are rather significantly different (the Super
opene" being evolved).

There booked at a 5 mall sample of FW gambian from Mannitius + they appear to the group B (range 141-192 micros \$\tilde{x}=166 n=6).

on a most interesting priese of works.

yours Sincerely

H. E. Parason.