Pege 92
oppretion wiown








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unter norml conditione are known．Thus，the inftial work inelulad experimatal achoing motheds in order to meamure the manal metaboli an and the overell trophic or＂foel－chain＂ streetreo of a coral roof comanity an a wol not affected by molear explealons．Fis mes sindiar to assaying the metabolis of madmal or hemane mindor normal conditions．For exuple， it was found that a healthy miwotok roef had a production rate of thout 7h，000 nounde of glecose（a mar）der aore der jear． This exceeds man＇s best apricultural efforte in most parts of the world．The eritical asnay mothods devised can be completed In a Pow weoks．The sigad ficant changes in this meamurable masal commaity oroduction rete＂on raedily be observed if inmortant effnets aro produced．

These assays revealed that corals and the algae growing in the ekeleton of the cerel colewy live together to thetr minuel creatage（prabiosis）．Although observitione of akeletal algee wore made proficualy，this is the flret stedy to doteraine ouantisativoly the amount of alga prosont in difforont opecies of corals．A very deflimte rutio botween algal（flant）and coral（andmal）tissue mas found．Die amonat of plant tisfue was aroater than the monat of andmal tisme per unit of maface aree．This marted devolopent of syithodis botiven plant and animal components achiovee expellent mooncervation＂and arelle use and rouse of oritical mitimte．This onables the coral ref：to achiove a ligh rate of oroduckivity in witers Aich in themelvee have a very low fertility．

These porults are aignifleant in physiological applicetions to other plants and sadmis vilich man rogedrea for foed．They provide a fritile fleld for eof entifle stedy of maclear radiation offecte on the mataboling of hifily integreted oystans．

The molegal ascaye will be exteged for ralatal rescareh
 blolociats，and the Ondscica contrentors Lutoreoted in radiolocical data of thil．type are invited to martiMpate，uder the facilitice of the flatime Belogical laberetery．
 Hin as crom!.

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 monitorins network of statom- as wat wa-in mperation to collect


















The Mar-hatle er from the i-lands of Rongelap atm l'tirik within the area of fall-out following the first detonation were - atemated prompety
 ated, 74 , all from Ronerdal, experienced radiation harns, principalle



































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