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David L. Narver, Jr.
Trianculation Survey

June 12, 1953
The fleld recorda and computations received to date indicate very good work and should result in a net which is well within mecond order tolarances. The records are beine checked hare as they are recoived and the following romariks are based on the information available here at this time.

The Coca-rox-Oboe triangle has an error of closure of 5.6 esconds. As this arror exceed the ellowale limit and is part of the primary net, additional observing to roduce the error of closure will be necessary. While the error could be at Oboe it is more probsble that it will be found at Cooa as the horizon closure at this station is large by approximately the same amount as the triangle closure. If reobserving Fox, H. How and Oboe from Coca reduces the error of closure below 5 seconds no further work should be done. All other trisigies auked.tted so far are satisfactory. This includes station Salt or Sugar.

The following baseline records have not been reccived:
Fiald noter and compratations Stations Smith to Roger.
Field notes Stationg Piper to Pox.


These shoula be sent in imediately as no further comphtine or adjustment can be made until they are received.

It is satiafactory to locate otations Ren and Air by precise ancle and distance ties from the baseline. Concluded triangles incluaing these stations are not necessary.

The mernorandum of 6-4-53, Curran to Dietze, mentions that the angles in this quadrancle ere also schecíuled. If this meens observing a SeltmPlpermOboe-Coca triangle it is, neceasary as the angles at Coca would bo too small to give any conclusive check between the wo sections of the baseline.

Location of the islands on the east reer from Nan to How will be required to thind order accuracy. It appars practice? to accomplish this survey by locatiag Mike by the triangle Mike-Nan-ObOC and then travorsine frim Mike to $S$. Mow. By this method the traverge is tied to a known station at each end and can be adjusted, elininoting the necessity for precise measurement. It should be satisfactory to use a 300 foot tepe for this measurement which ar be calibrated from the 100 standard tapes which are of the Jouste.

A copy of a two page report on the U. S. Navy Survey at Bikini is enclosed which should be of interest. Shis report atates that Stations Air, South and Enyu are

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common to both the Sumer and the Bowditch Surveya. As the observation point cannot be feoovered it is plamed to use these atations as the origin of geographic position and azimith for our survey. They should be tied to the closest station of the new survey by precise angle and distance and it is desirable thet thie work be corapleted as soon as possible. This information is required to complete the computation and adjustment of the primary net and is of higher priority than location of the third order stetions.

At the time the local triangulation survey in the Dog-Seorge area is made, U. S. Navy Stations Mon and Gell should be tied in to this survey. This will provide an additional check between the surveys and will be of value in determining the equation between the prelimingry coordinates and the final adjusted grid.

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