

# Memo, May 3086 AD

**To Commander Alan Virdon, near former San Francisco**

**Re Your current situation**

**From Cartographic Support Unit, A.N.S.A.**

After twelve months your situation is becoming critical. The apes have logistic and supply advantages while you and your surviving crew member have only your training and your nomadic life as advantages. Your ape companion with his local knowledge has been an invaluable asset.

Your ship landed 150 miles South of the Goldstone Deep Space

Communications Complex at Fort Irwin, and about 110 miles SSE of the former Edwards Air Force Base. Those facilities now appear to be non-functional.

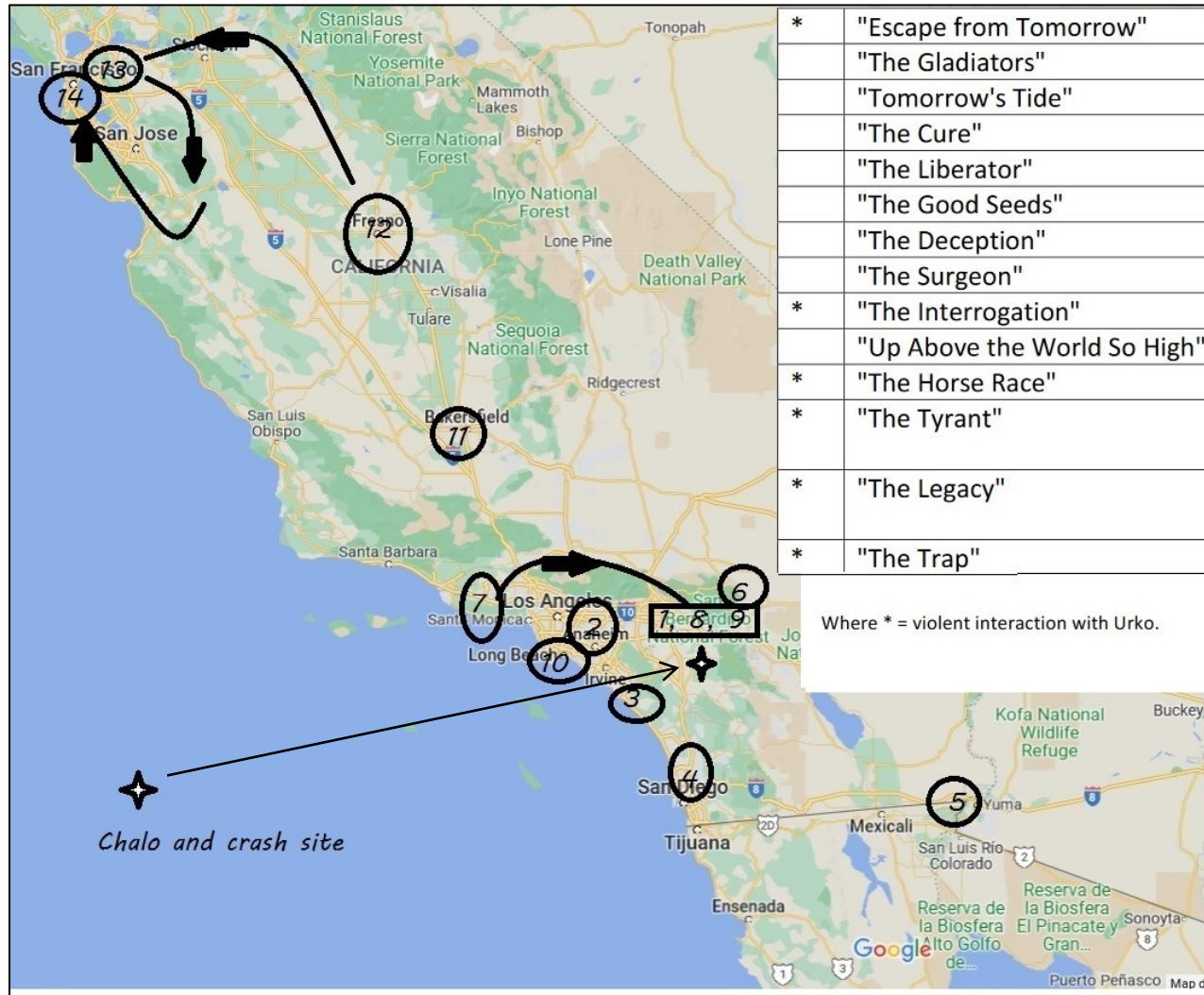


Significant events over the last 12 months of your expedition and their locations to date:

- 1 \* crashland near Chalo, about 150 miles south of the former Goldstone Deep Space Communications Complex, and Central City 30 miles to the north, near the former San Bernardino
- 2 gladiatorial contest at Kaymak, halfway to the west coast
- 3 captured at fishing village near former San Clemente
- 4 malaria outbreak at Trion, an isolated settlement north of the former San Diego
- 5 slavery and toxic gas at Borak, near the former Yuma
- 6 stayed on a farm in a farming district "four days hard ride" east of Central City (approx. 100 miles) while Galen recovered from injury
- 7 dragoons at former Santa Monica
- 8 You were shot near Central City and were operated on by Dr Kira
- 9 \* **Major** Burke was captured in San Fernando Valley and taken to Central City for interrogation by Wanda
- 10 hang glider built by Leuric near former Rancho Palos Verdes
- 11 \* horse race at Venta, near the former Bakersfield
- 12 \* Aboro and his corruption at Hathor, near former Fresno
- 13 \* Oakland Science Institute, followed by travel to Durlin's farm
- 14 \* Numai followed by travel to San Francisco and trapped in subway

(Where \* signifies actual physical interaction with Urko)

Approximate locations are shown on the map below.





Hence your three most recent locations are north of those on the map in Urko's office. That map shows only the southern California and Mexican coastline, towns, mountain ranges to the east, Forbidden Zone marked with series of X and possible rivers as the black lines. Urko's wall map is shown below.





Until now, you appear to have been wandering at random through a shooting gallery. This is not conducive to long term survival. You and your companions now need to consider strategic actions to secure your future and long term survival.



**Apes** *Shelter from elements, shelter from predators, food, water, horses, guns, troops, medical supplies, the heliograph network*

*dangerous combo - garrisons w relay horses plus heliographs*



**Astronauts** *No fixed abode so it's hard for the apes to find you.*

It should be obvious to you that the apes have the following advantages :

- Shelter from elements,
- shelter from predators,
- food and water supply chains,
- horses (long distance travel)
- guns
- an ongoing supply of replacement troops
- medical supplies and
- a network of heliographs (long distance communications).

General Urko can be advised quickly of your location via heliograph and he can choose to issue orders back over heliograph or travel the long distance himself on horseback. It is only a matter of time before he adopts the pony express method of long distance, relay, horseback travel between garrisons for himself and his troops. With the heliograph network and the relay stations his travel time will diminish, bringing him into more frequent contact with you.

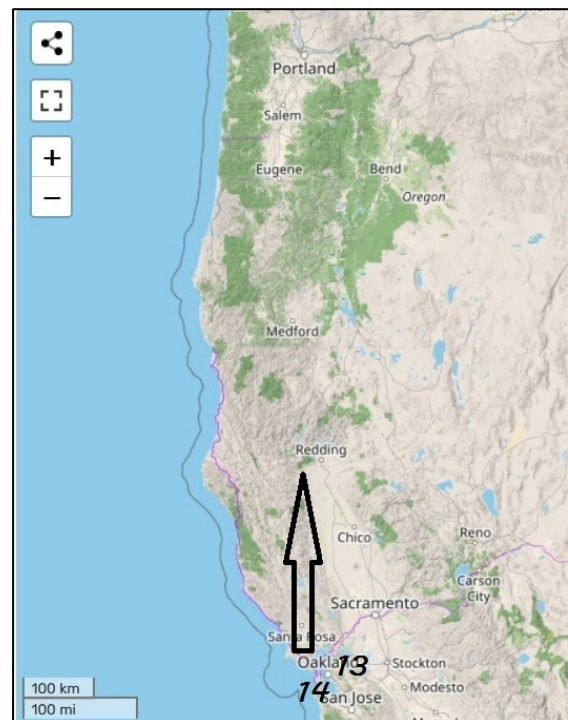
**Given your increasingly frequent, recent interactions with Urko and his increasing willingness to use violence during those interactions, you are advised to make every effort to quickly move as far away as possible.**

There appears to be no option for you to travel south into and beyond the Forbidden Zone, nor to travel west across the Pacific Ocean. Travel east across the cordillera from the coastal strip where you are currently located near the former Sacramento, into the interior and onto the Great Plains, would require resources beyond those you currently have at your disposal. Former Denver is 1,100 miles east of your current location and former Kansas City is another 600 miles further east. In addition to geographic (mountains) and climate (semi-arid/arid) impediments, those areas may be uninhabitable for other reasons if the ape folklore is correct.

Your best course of action appears to be to travel north, beyond the extent of the ape society. To the north of the Western Cascade, the Salmon and the Siskiyou Mountains are temperate grasslands and forests (Portland north to Seattle). This is a distance of 315 miles via Grant's Pass; it will be longer if you hug the coast or travel inland via the former Klamath Falls.

If you can secure shelter and resources there to the north of those mountains, you may later be able to push east to Montana along traditional tribal trails and through mountain passes.

In any event, those northern mountains will stop Zaius and Urko from pursuing you. You will be able to rest and build capacity, and make strategic plans for your future and long term survival.



### References:

Horses in the past used to frequently travel up to 35 miles per day, but now they are rarely able to go more than 25 miles in one day. It is important to note, however, that a horse kept in good shape can travel up to 50 miles in a day. Pony Express horses were only able to travel about 10-15 miles at a canter or trot before a rider would stop to switch to a “fresh” horse.

<https://www.savvyhorsetwoman.com/2022/10/how-far-can-a-horse-travel-in-a-day.html>

If a (human) walker is well-trained and takes breaks, they can walk 20 miles in a day. If a walker doesn't take breaks and is going fast, they may be able to cover 30 miles in a day. <https://www.verywellfit.com/how-far-can-a-healthy-person-walk-3975556>