Time zones and other Fuck ups

@telegnom – CCC Frankfurt / Main – balccon2k17

Why we need time zones

- Ex oriente lux
- Solar time
- People
- Train services
  - ships

Time table from Lake Constance

Port	State	*Time Zone*	local time	prague time
Bregenz	Austria	Prague	09:40	09:40
Lindau	Bavaria	Munich	09:54	10:05
Friedrichshafen	Württemberg	Stuttgart	11:19	11:40
Constance	Baden	Karlsruhe	13:06	13:30
Kreuzlingen	Switzerland	Bern	13:16	13:44

Three of these states are located in Germany :(

Excursus I

Wir Wilhelm von Gottes Gnaden König von Preußen,

Markgraf zu Brandenburg, Burggraf zu Nürnberg, Graf zu Hohenzollern, Souveräner und oberster Herzog von Schlesien wie auch der Grafschaft Glatz, Großherzog vom Niederrhein und Posen, Herzog zu Sachsen, Westfalen und Engern, zu Pommern, Lüneburg, Holstein und Schleswig, zu Magdeburg, Bremen, Geldern, Cleve, Jülich und Berg, sowie auch der Wenden und Kaschuben, zu Krossen, Lauenburg, Mecklenburg, Landgraf zu Hessen und Thüringen, Markgraf der Ober- und Niederlausitz, Prinz von Oranien, Fürst zu Rügen, zu Ostfriesland, zu Paderborn und Pyrmont, zu Halberstadt, Münster, Minden, Osnabrück, Hildesheim, zu Verden, Kammin, Fulda, Nassau und Mörs, gefürsteter Graf zu Henneberg, Graf der Mark und zu Ravensberg, zu Hohenstein, Tecklenburg und Lingen, zu Mansfeld, Sigmaringen und Veringen, Herr von Frankfurt.

Excursus II

Wilhelm, von Gottes Gnaden König von Preußen etc. etc. etc.

Back to modern times!

There are still fuck ups today!

Rare offsets from UTC

- Nepal
  - UTC+05:45
- Austalia
  - UTC+08:00
  - UTC+08:45
  - UTC+09:30
  - UTC+10:00

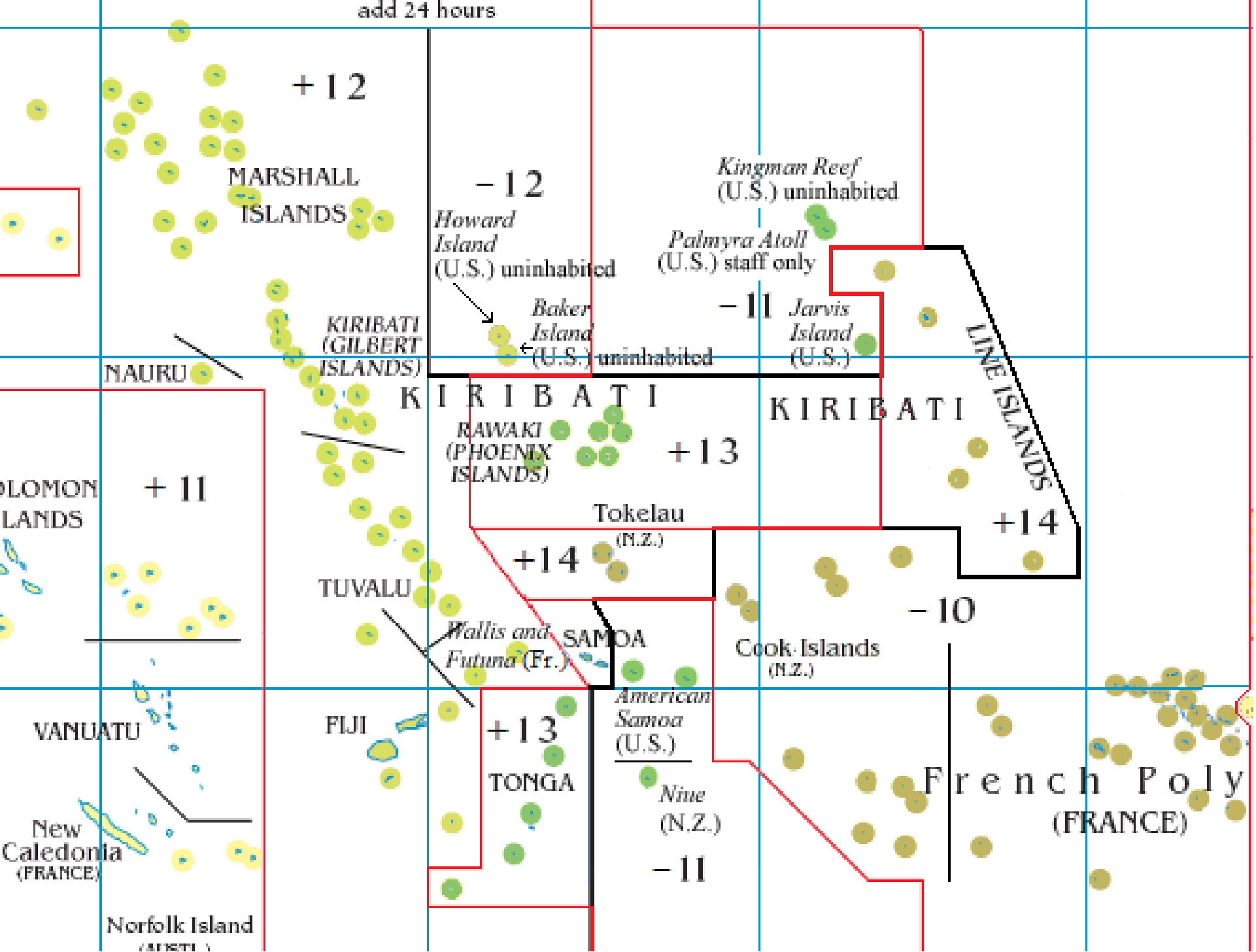

Have you heard of Samoa?

Samoa jumped across the international date line

- near the international dateline
- improve business with Australia and New Zealand
- moved from east to west
- UTC -11 (UTC-10 dst) > UTC+14 (UTC+13 dst)

How did they do this?

- They skipped December, 30 2011
  - December, 29 23:59:58
  - December, 29 23:59:59
  - December, 31 00:00:00
  - December, 31 00:00:01


add 24 hours
+12
MARSHALL ISLANDS
-12
Howard Island (U.S.) uninhabited
Kingman Reef (U.S.) uninhabited
Palmyra Atoll (U.S.) staff only
-11
Baker Island (U.S.) uninhabited
Jarvis Island (U.S.)
KIRIBATI (GILBERT ISLANDS)
NAURU
KIRIBATI
KIRIBATI
LINE ISLANDS
RAWAKI (PHOENIX ISLANDS)
+13
+11
Tokelau (N.Z.)
+14
+14
TUVALU
-10
Wallis and Futuna (Fr.)
SAMOA
Cook Islands (N.Z.)
American Samoa (U.S.)
VANUATU
FIJI
+13
TONGA
Niue (N.Z.)
-11
French Poly
(FRANCE)
New Caledonia (FRANCE)
Norfolk Island

One “area” two time zones

- messes up everything
  - time zones are based on the location
  - not on whom you ask

The West Bank

- The Israelis follow the Israel Standard Time
  - UTC+02:00
- The Palestinians follow Middle European Time
  - UTC+01:00
- By law (even in Palestine) it UTC+02:00

Astro physicists

- Use UTC
  - but the change of days is at noon

The Future is now!

- Airy Mean Time (named after a crater)
  - equivalent to GMT
- MTC
  - Coordinated Mars Time
  - equivalent to UTC
- MSD
  - Mars Sol Date

Thank you!

https://talks.gnom.space/lt/en/timezones.pdf
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