



ANOTHER ONE LEAVES THE CRUST

PRESS KIT | JANUARY 2021

LAUNCH INFORMATION



LAUNCH WINDOW

20-25 January
NZT/UTC



LAUNCH SITE

Launch Complex 1, Pad A
Māhia Peninsula,
New Zealand



DAILY LAUNCH OPPORTUNITY

NZT | 19:45 – 21:15
UTC | 06:45 – 08:15
EST | 01:45 – 00:15
PST | 22:45 – 03:15



LIVE STREAM

Watch the live launch webcast:
rocketlabusa.com/live-stream



ORBIT

Polar



SATELLITES

01



INCLINATION

90

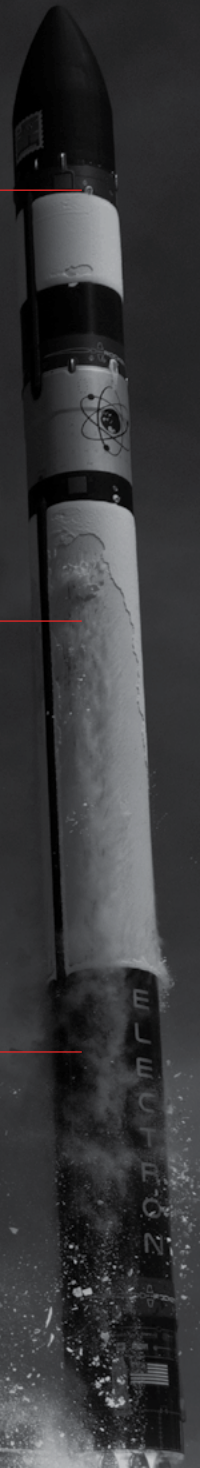
Degrees



LAUNCH CUSTOMER

OHB

Group



MISSION OVERVIEW

ABOUT 'ANOTHER ONE LEAVES THE CRUST'

ROCKET LAB'S
FIRST LAUNCH
OF THE NEW
YEAR IS A
DEDICATED
MISSION FOR
OHB GROUP.



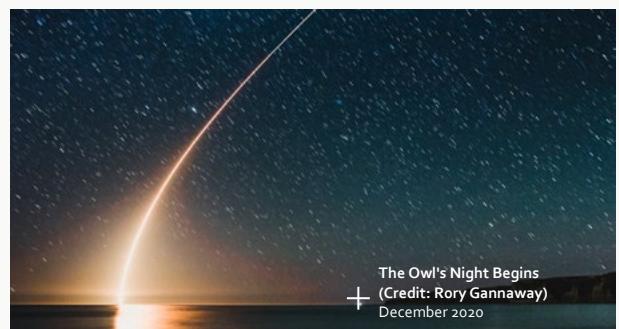
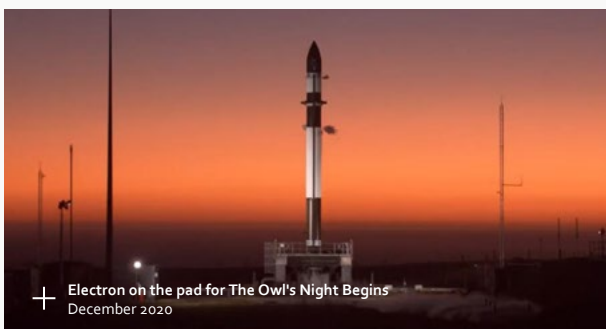
The mission is Rocket Lab's 18th Electron launch and will bring the total number of satellites launched by Rocket Lab to 97.

Encapsulated inside Electron's fairing is a single communication microsatellite that will enable specific frequencies to support future services from orbit. The launch was procured for OHB Group through OHB Cosmos International Launch Service GmbH, the launch service division of OHB Group. OHB Cosmos is responsible for launching the spacecraft built by the Group's satellite manufacturers based in Germany, Sweden, and Czech Republic.

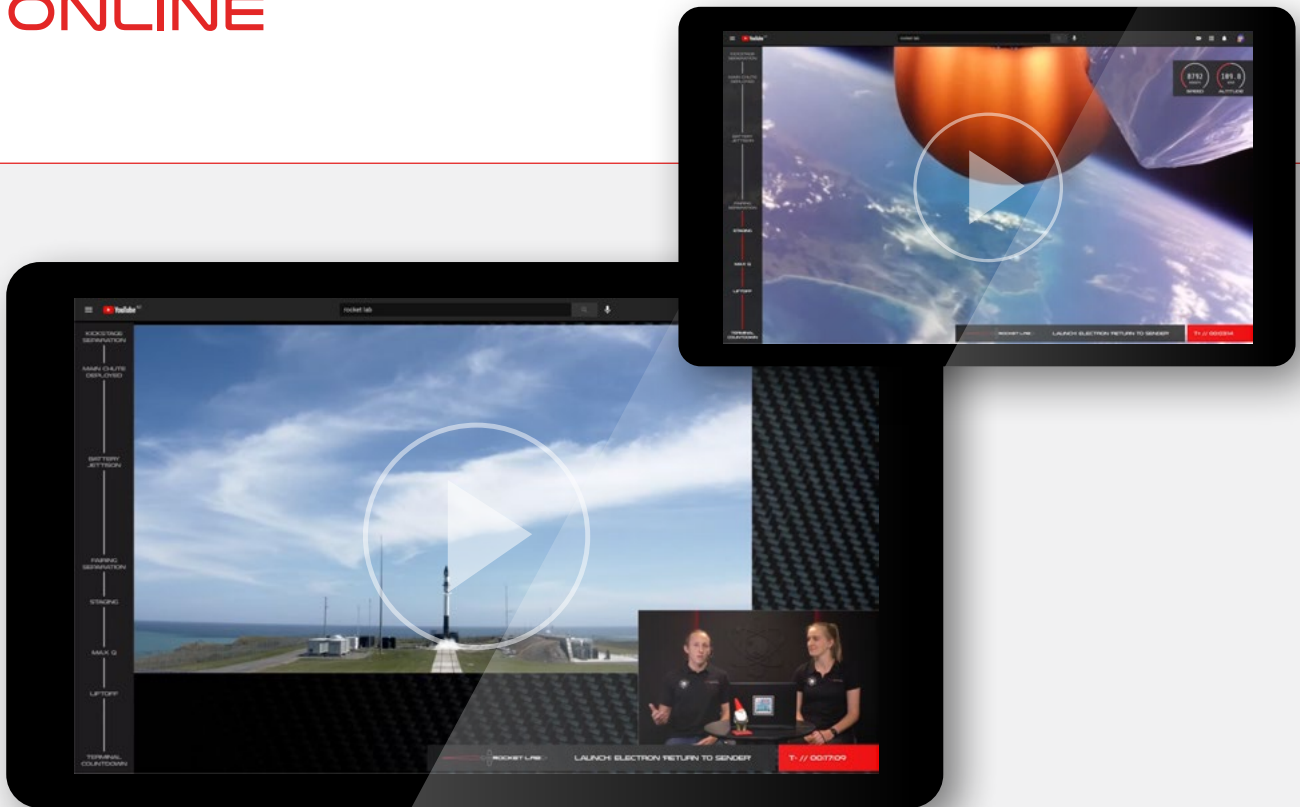
The mission will launch from Rocket Lab Launch Complex 1 on New Zealand's Māhia Peninsula to an initial elliptical orbit, then Electron's Kick Stage will perform a series of burns with its re-lightable Curie engine to raise apogee and act as a space tug to deliver the OHB Cosmos' payload to its precise orbital destination.

Following payload deployment, the Kick Stage will perform a de-orbit burn to lower its perigee where it will experience greater atmospheric drag, enabling it to re-enter and burn up faster to avoid becoming space junk.

Rocket Lab will not be attempting to recover Electron's first stage for this mission.



VIEWING A LAUNCH ONLINE



LIVE STREAM

The best way to view a launch is via Rocket Lab's live video webcast. This offers the best views of launch and includes helpful commentary about the launch process. A livestream will be made available approximately 15-20 minutes prior to a launch attempt. Rocket Lab will post links to the webcast when live via Facebook and Twitter.

LIVE STREAM LINKS

The livestream is viewable at:
[rocketlabusa.com/live-stream](https://www.rocketlabusa.com/live-stream)

Also available on:
[youtube.com/RocketLabNZ](https://www.youtube.com/RocketLabNZ)

LAUNCH FOOTAGE & IMAGES

Images and footage of the 'Another One Leaves The Crust' launch will be available shortly after a successful mission at:
www.rocketlabusa.com/news/updates/link-torocket-lab-imagery-and-video

UPDATES

For information on launch day visit:
[rocketlabusa.com/next-mission](https://www.rocketlabusa.com/next-mission)

Follow Rocket Lab:
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facebook.com/RocketLabUSA

VIEWING A LAUNCH IN PERSON

Location

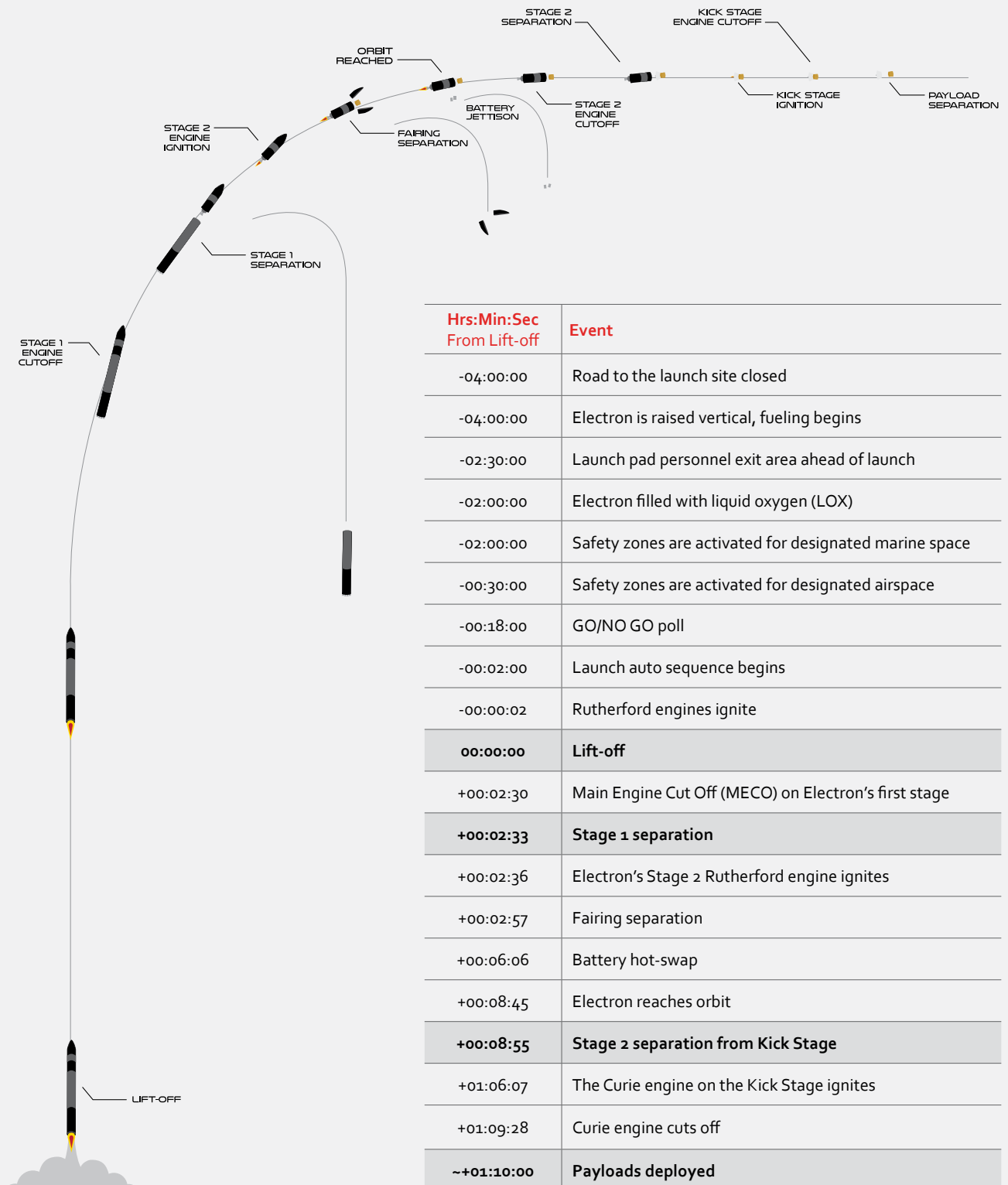
Wairoa District Council has allocated a rocket launch viewing area for the public near Nuhaka, accessible via Blucks Pit Road. Scrubs and postponements are likely during launch windows, so visitors to the Blucks Pit viewing site should anticipate multiple postponements, sometimes across several days.

More information visit

www.visitwairoa.co.nz/welcome-to-wairoa/space-coast-new-zealand



TIMELINE OF LAUNCH EVENTS



Hrs:Min:Sec From Lift-off	Event
-04:00:00	Road to the launch site closed
-04:00:00	Electron is raised vertical, fueling begins
-02:30:00	Launch pad personnel exit area ahead of launch
-02:00:00	Electron filled with liquid oxygen (LOX)
-02:00:00	Safety zones are activated for designated marine space
-00:30:00	Safety zones are activated for designated airspace
-00:18:00	GO/NO GO poll
-00:02:00	Launch auto sequence begins
-00:00:02	Rutherford engines ignite
00:00:00	Lift-off
+00:02:30	Main Engine Cut Off (MECO) on Electron's first stage
+00:02:33	Stage 1 separation
+00:02:36	Electron's Stage 2 Rutherford engine ignites
+00:02:57	Fairing separation
+00:06:06	Battery hot-swap
+00:08:45	Electron reaches orbit
+00:08:55	Stage 2 separation from Kick Stage
+01:06:07	The Curie engine on the Kick Stage ignites
+01:09:28	Curie engine cuts off
~+01:10:00	Payloads deployed

ELECTRON LAUNCH VEHICLE

OVERALL

LENGTH

18m

DIAMETER (MAX)

1.2m

STAGES

2 + Kick Stage

VEHICLE MASS (LIFT-OFF)

13,000kg

MATERIAL/STRUCTURE

Carbon Fiber Composite/Monocoque

PROPELLANT

LOX/Kerosene

PAYLOAD

NOMINAL PAYLOAD

200kg / 440lbm To 500km SSO

FAIRING DIAMETER

1.2m

FAIRING HEIGHT

2.5m

FAIRING SEP SYSTEM

Pneumatic Unlocking, Springs

STAGE 2

PROPULSION

1x Rutherford Vacuum Engine

THRUST

5800 LBF Vacuum

ISP

343 Sec

INTERSTAGE

SEPARATION SYSTEM

Pneumatic Pusher

STAGE 1

PROPULSION

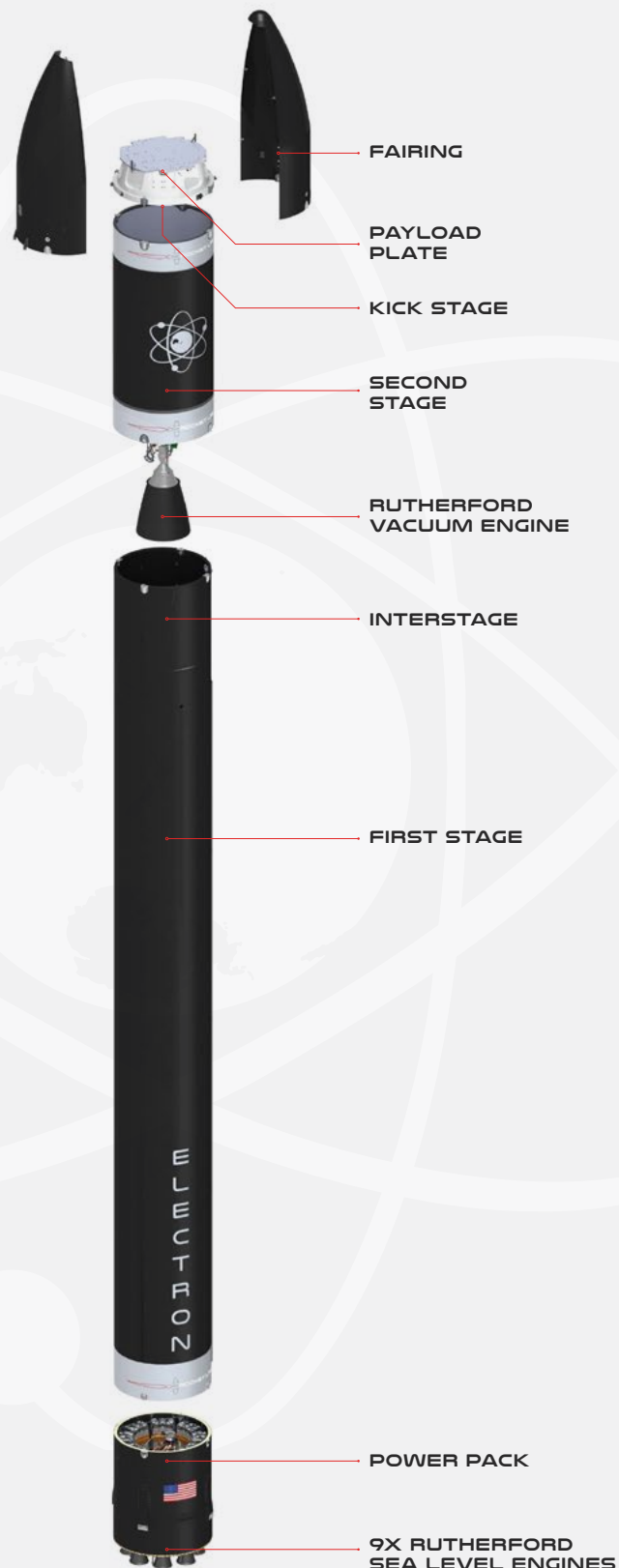
9x Rutherford Sea Level Engines

THRUST

5600 LBF Sea Level (Per Engine)

ISP

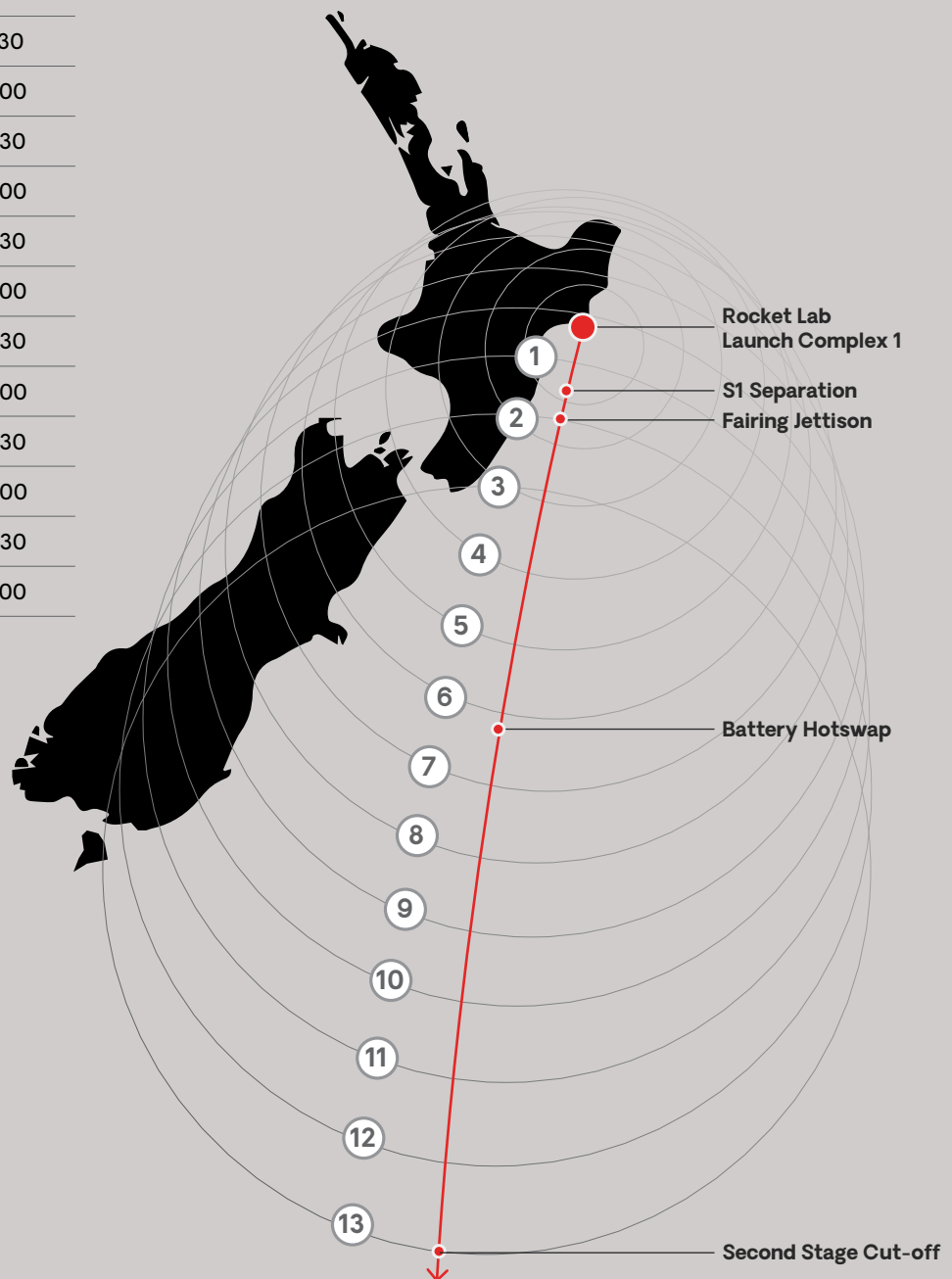
311 Sec




LAUNCH VISIBILITY MAP


WHEN AND WHERE TO SPOT THE LAUNCH

Marker	Mission Time
1	T+01:00
2	T+01:30
3	T+02:00
4	T+02:30
5	T+03:00
6	T+03:30
7	T+04:00
8	T+04:30
9	T+05:00
10	T+05:30
11	T+06:00
12	T+06:30
13	T+07:00





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