

Oakland ARTCC

ISPACG 35 PT Meeting

Presented to: **ISPACG 35 PT**

By: **Holly King**

Date: **July 2020**



**Federal Aviation
Administration**

Oakland Center (KZAK FIR) UPDATE

- **Current Operational Stats**
 - Staffing
- **FIR Traffic Data**
 - Volume
 - Equipage
 - Aircraft Distribution
 - CDP
 - ITP
- **Commercial Space Activity**
- **AIDC Updates**
- **Pacific Operators TIM**



Operational Stats

- **Pacific South**

- 30 CPCs
- 17 DEVs

- **Rotational Shifts**

- 5 On/5 Off

- **Pacific North**

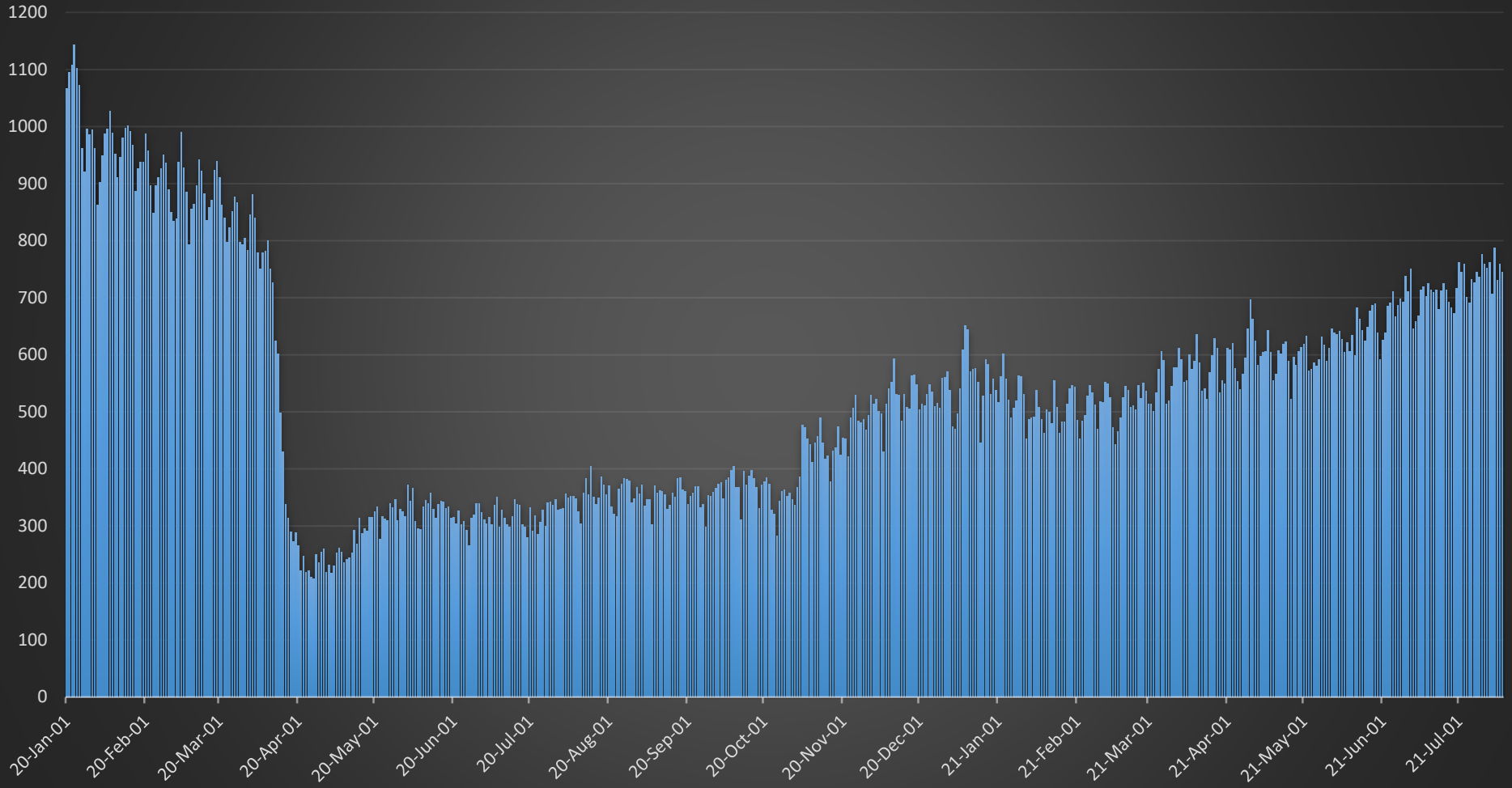
- 35 CPCs
- 16 DEVs

- **Rotational Shifts**

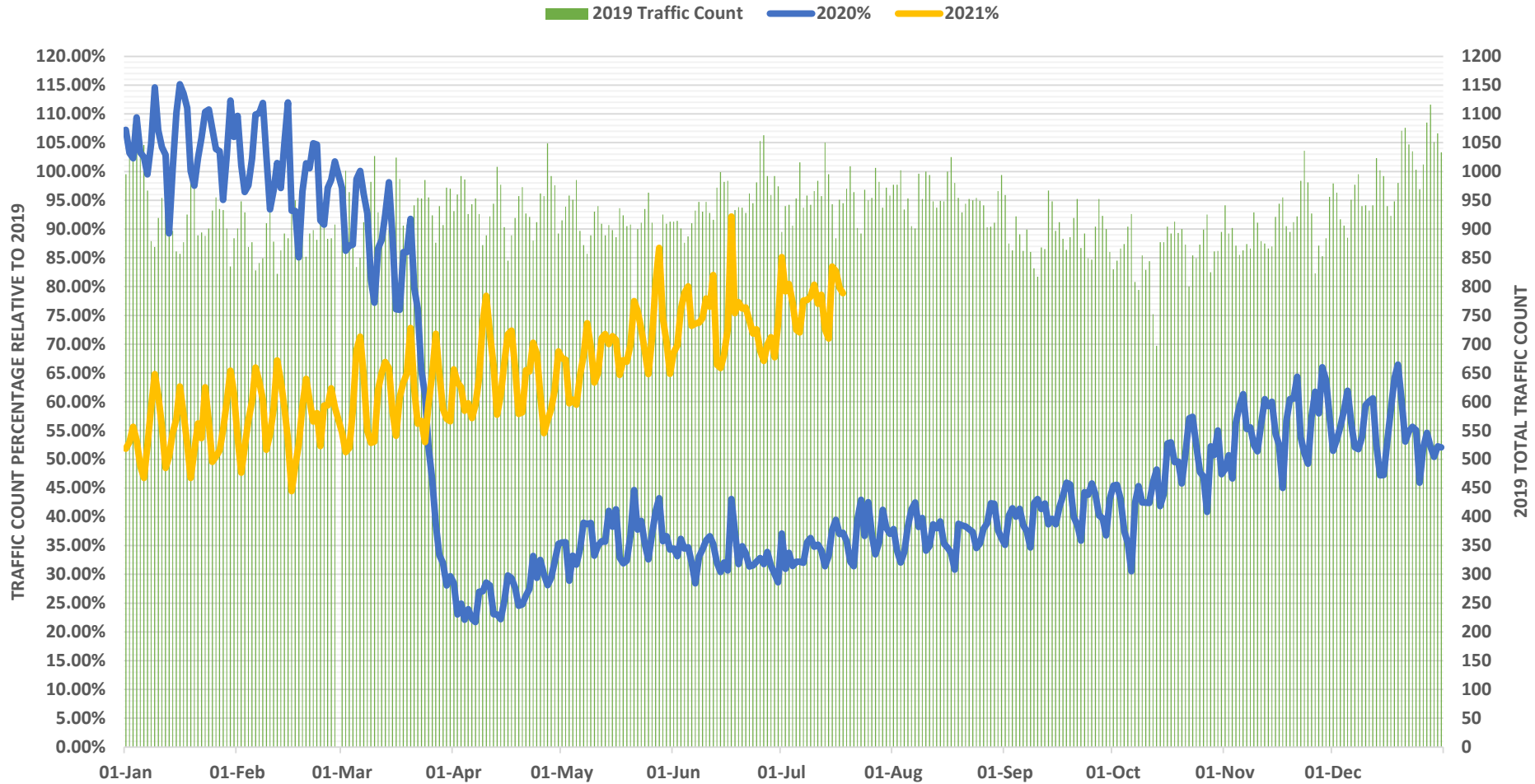
- 5 On/5 Off



Oakland Oceanic Traffic Count Jan 1st, 2020 - July 18th, 2021

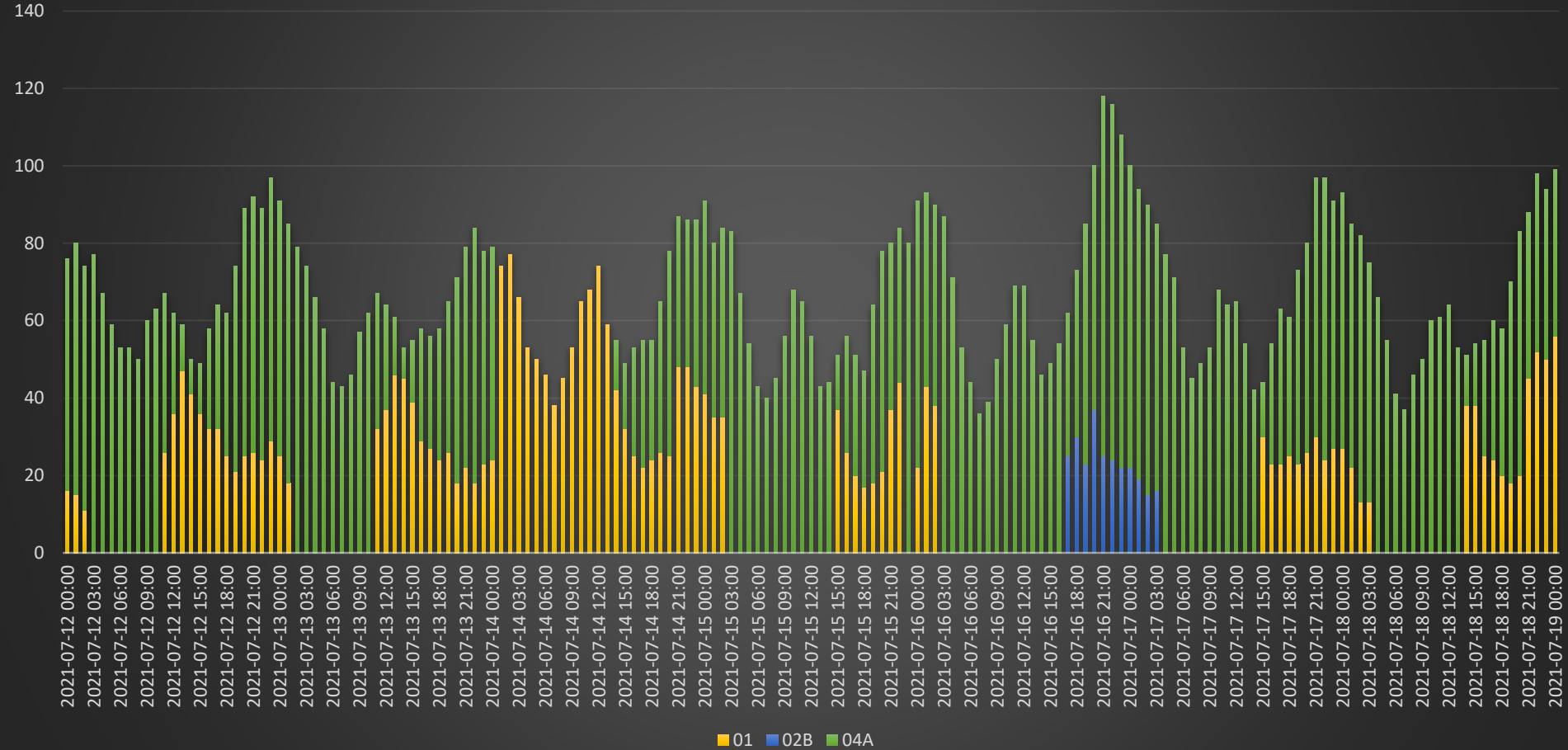


Change in Oakland Oceanic Traffic Count from 2019 to 2020 and 2021



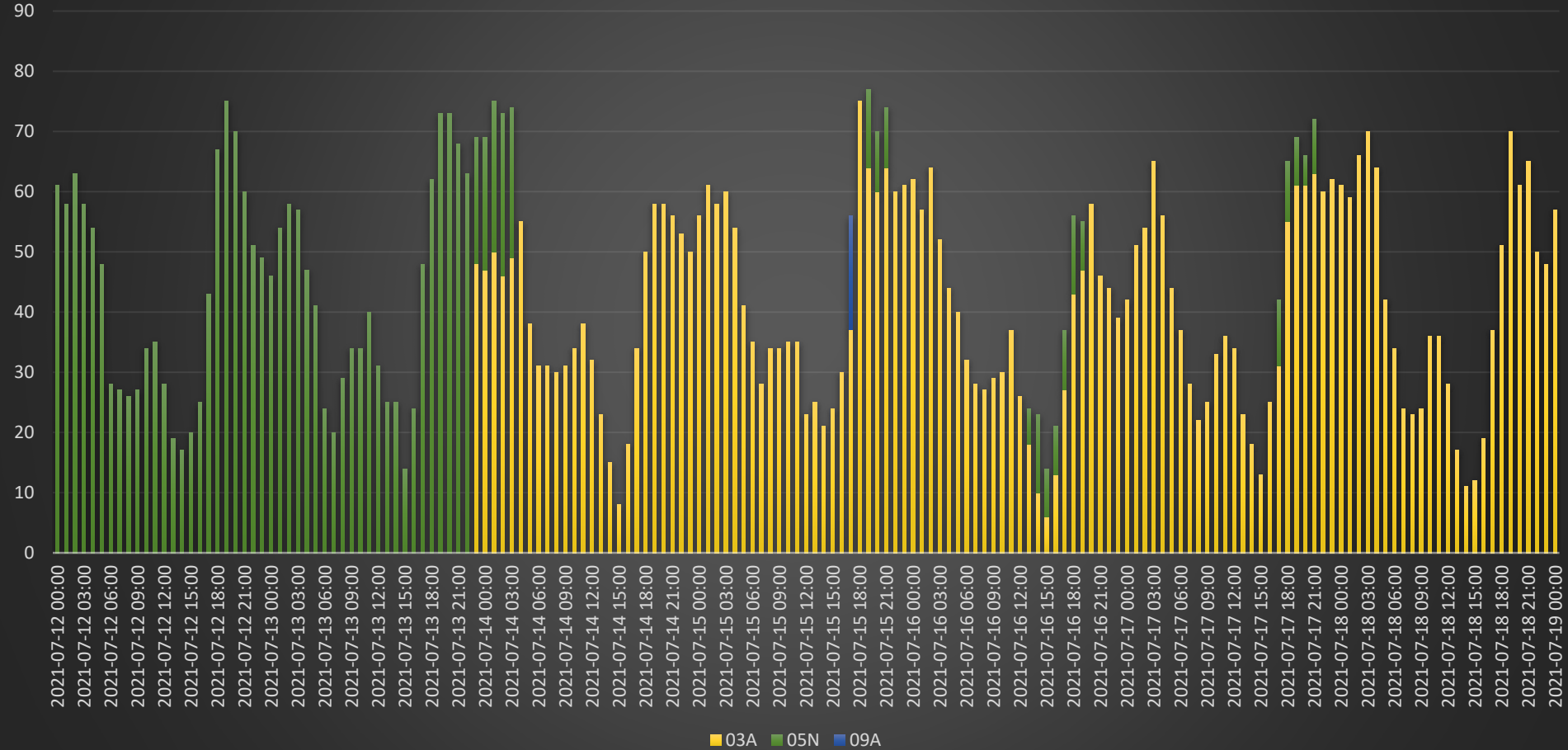
Pac North

July 12th - 18th, 2021



Pac South

July 12th - 18th, 2021

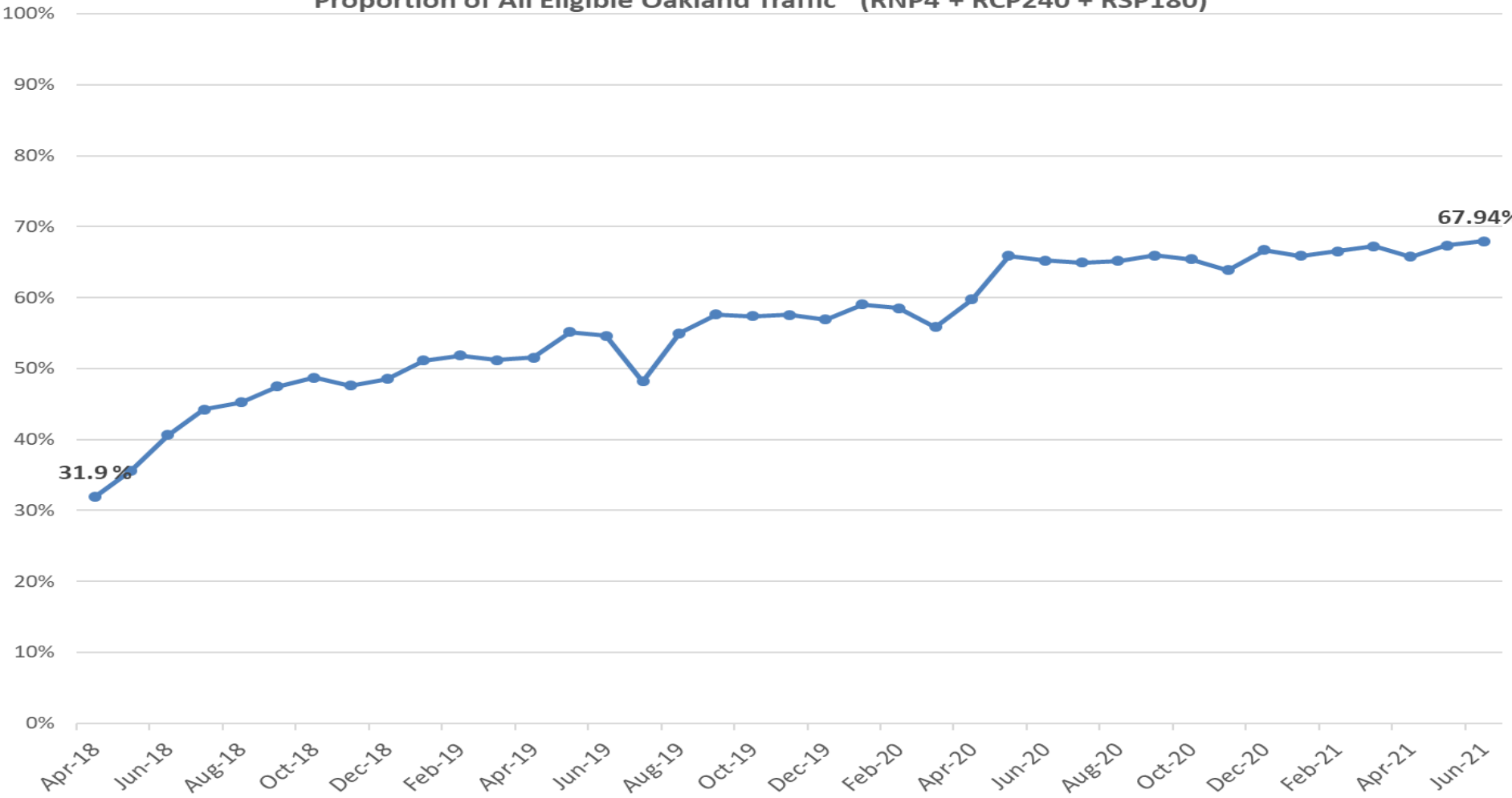


Oceanic Equipage by Traffic Flow

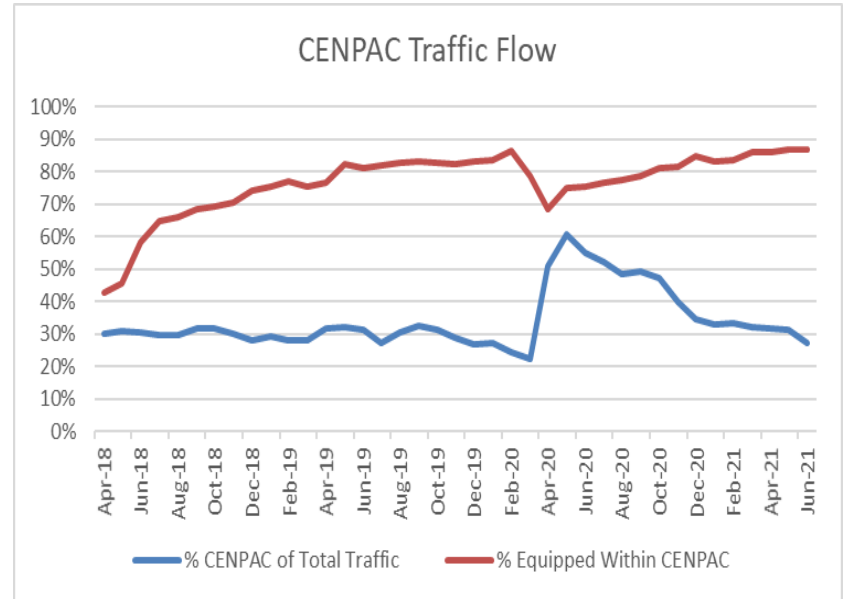
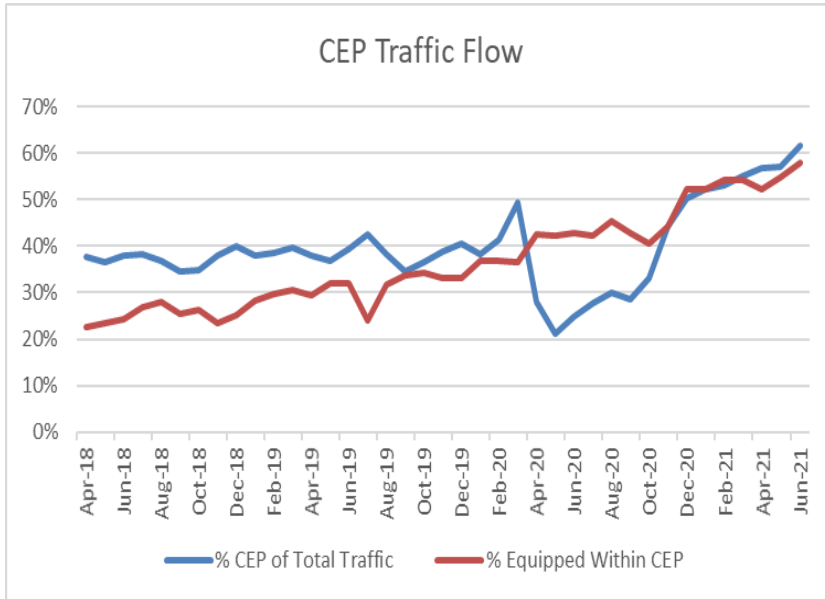
Flow Designator	Flow Name	Description of Flow
CEP	Central East Pacific	Hawaii to/from North America
CENPAC	Central Pacific	North America to/from Japan/Korea/Asia
SOPAC	South Pacific	North America to/from South Pacific States
JPGUAM	Japan to Guam Area	Japan to/from Guam/Saipan other proximate locations
JPHAWA	Japan to Hawaii	Japan to/from Hawaii
AUNZJP	Australia/New Zealand to Japan	Australia/New Zealand to/from Japan
Domestic US	Domestic US origin and destination	Domestic US origin to/from Domestic US destination (excluding Hawaii)
Other	Other	City Pair not included in one of the above traffic flows
State	State operations	State operations - same origin and destination



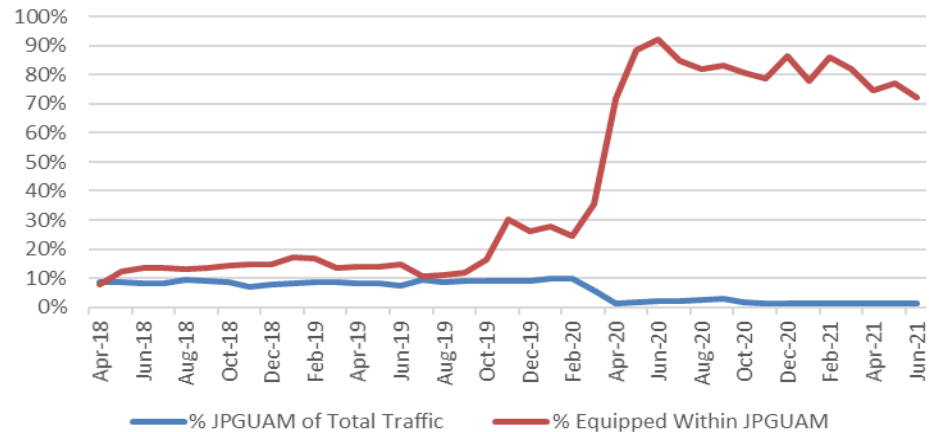
Proportion of All Eligible Oakland Traffic (RNP4 + RCP240 + RSP180)



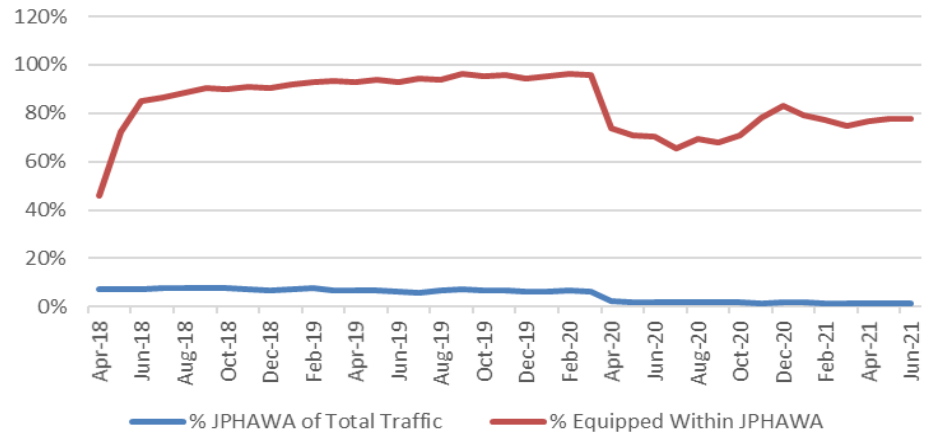
Traffic Flows



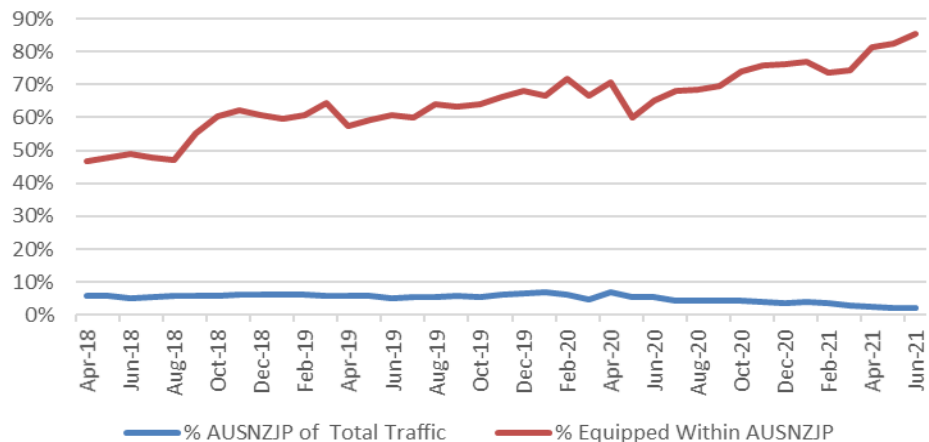
Japan-Guam Traffic Flow



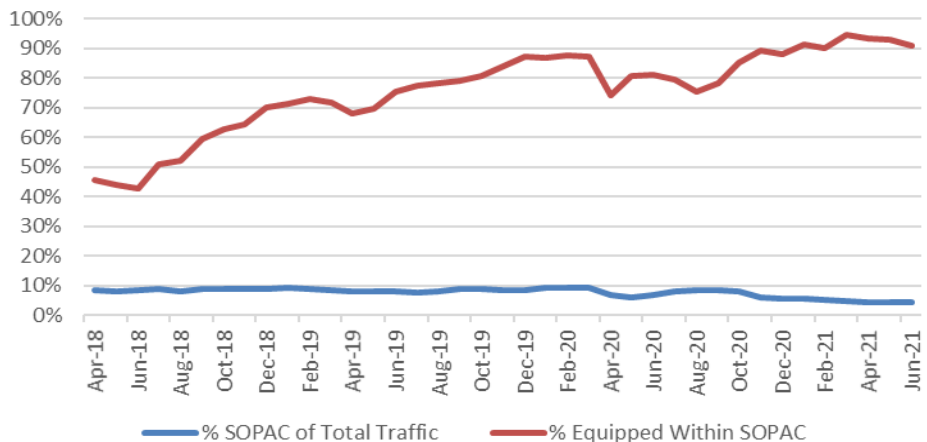
Japan-Hawaii Traffic Flow



Australia/New Zealand-Japan Traffic Flow

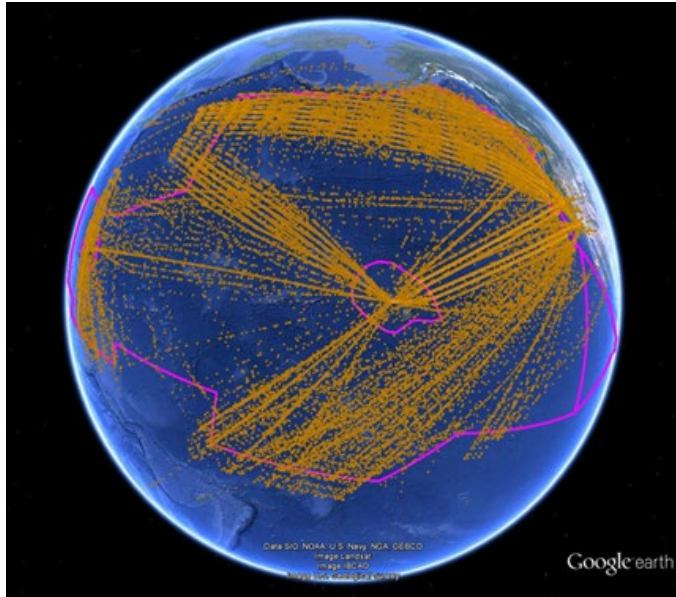


SOPAC Traffic Flow



Oakland FIR (KZAK)

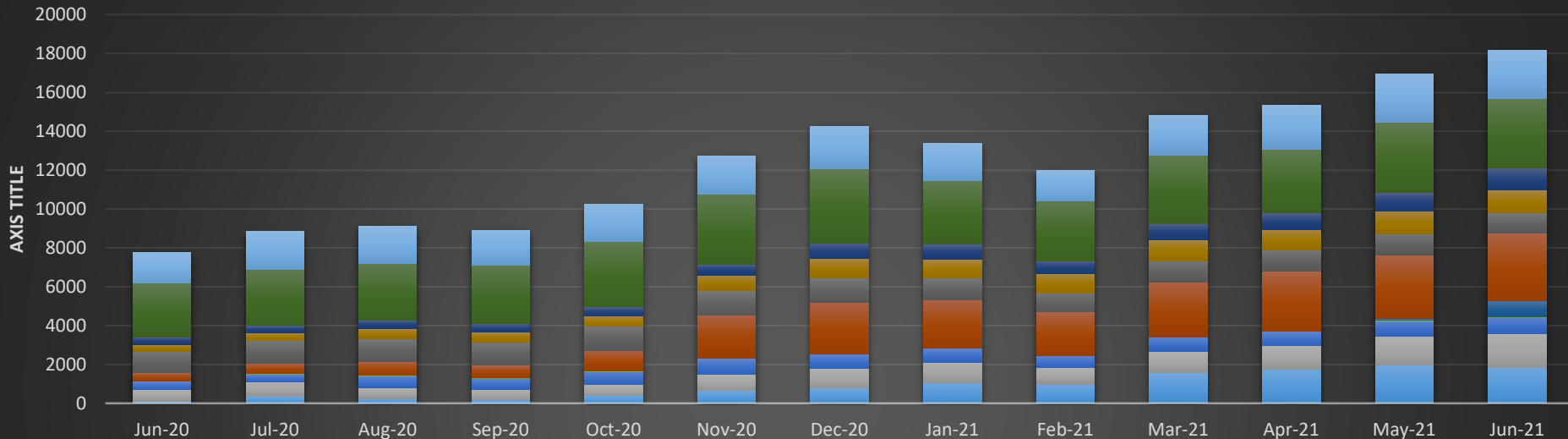
FANS Data Link Usage



Av flights/day (Jan-Jun 2021)	607
% flights using FANS data link (Jan-Jun 2021)	89%
% data link flights filing RNP4 (as of Jun 2021)	89%
% data link flights filing RCP240/RSP180 (as of Jun 2021)	40%
Individual airframes using FANS data link (Jan-Jun 2021)	3,497



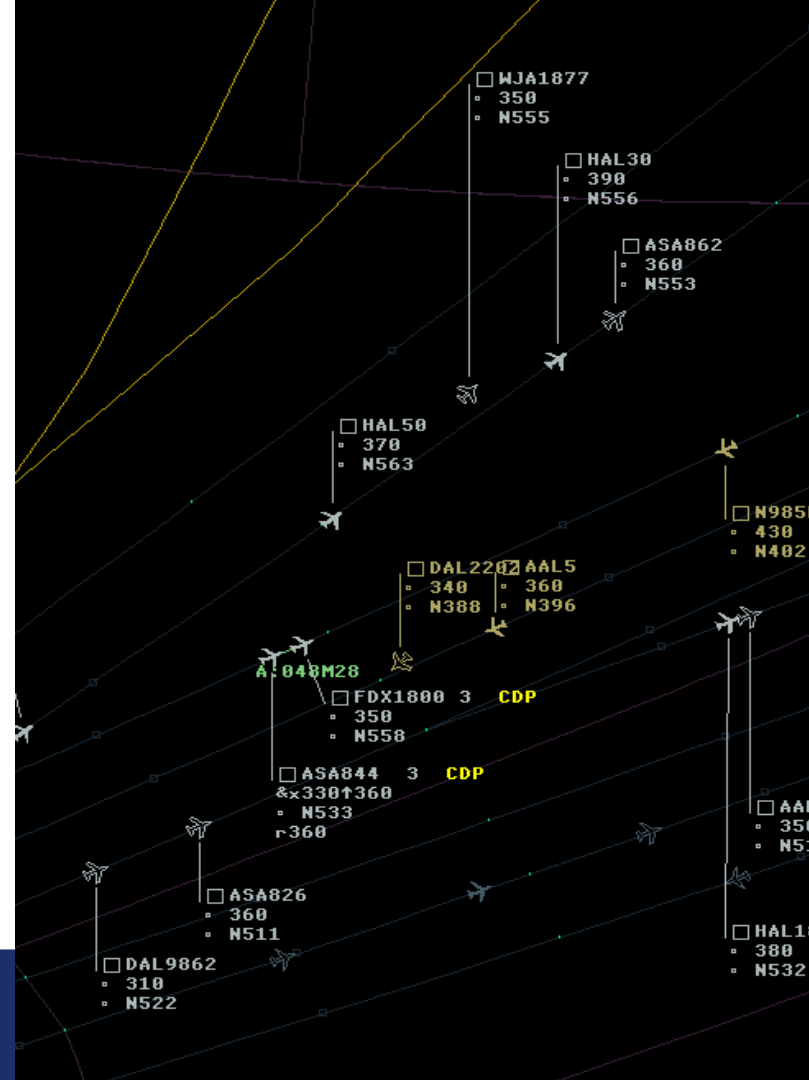
Oakland Aircraft Type Trend 2020 - 2021



	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
B78x	1557	1923	1929	1814	1877	1948	2175	1891	1579	2071	2274	2486	2460
B77x	2771	2902	2888	2994	3387	3619	3827	3287	3070	3499	3261	3607	3594
B76x	372	370	445	458	476	553	827	767	653	836	837	937	1140
B75x	350	420	531	497	525	799	988	980	1006	1070	1062	1195	1179
B74x	1127	1160	1161	1207	1232	1246	1247	1098	970	1110	1073	1071	1037
B73x	424	526	713	624	1072	2232	2649	2488	2241	2806	3100	3294	3474
B38M	0	0	0	0	0	0	0	0	0	0	4	87	824
A38x	14	19	17	24	23	23	19	20	14	13	15	25	16
A35x	402	414	635	597	674	826	736	717	628	725	739	794	863
A33x	618	729	539	505	554	812	1010	1035	836	1132	1205	1467	1726
A21N	110	369	254	204	407	667	789	1081	991	1565	1758	1980	1850

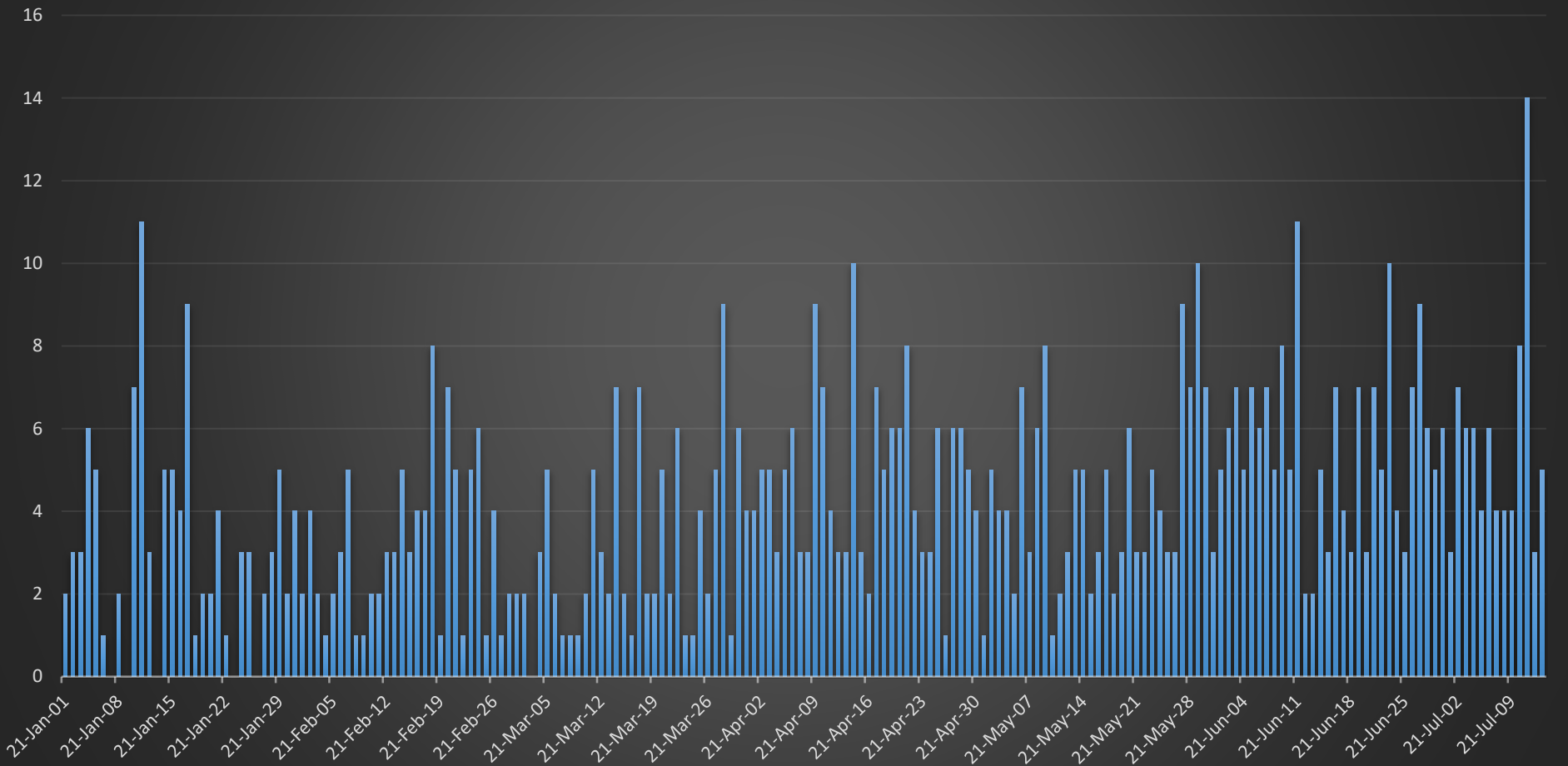
ADS-C CDP & ADS-B ITP

Status Update



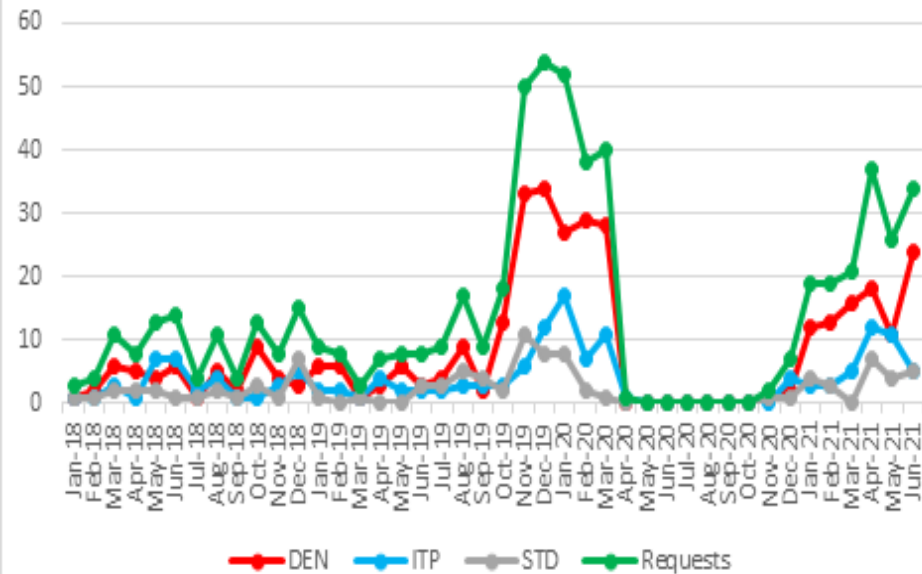
ADS-C CDP Usage in KZAK

Jan 01, 2021 - July 13th, 2021

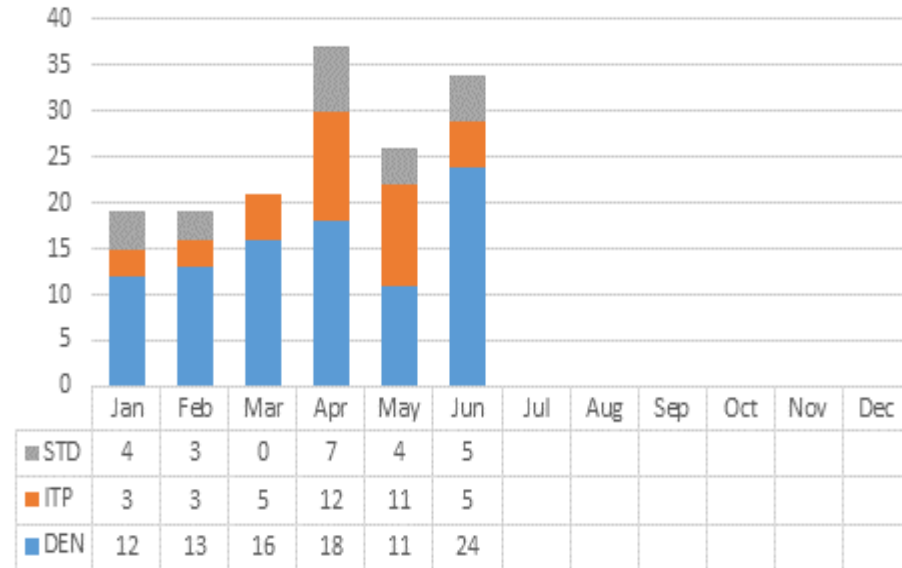


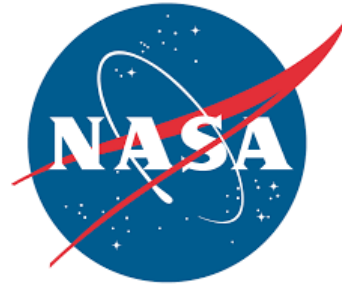
ADS-B ITP

ZOA ITP REQUESTS BY MONTH



ITP Request Event Summary 2021





Commercial Space





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Commercial Launch Activity

ASTRA (KODIAK PSCA)

Virgin Orbit

Sierra Space

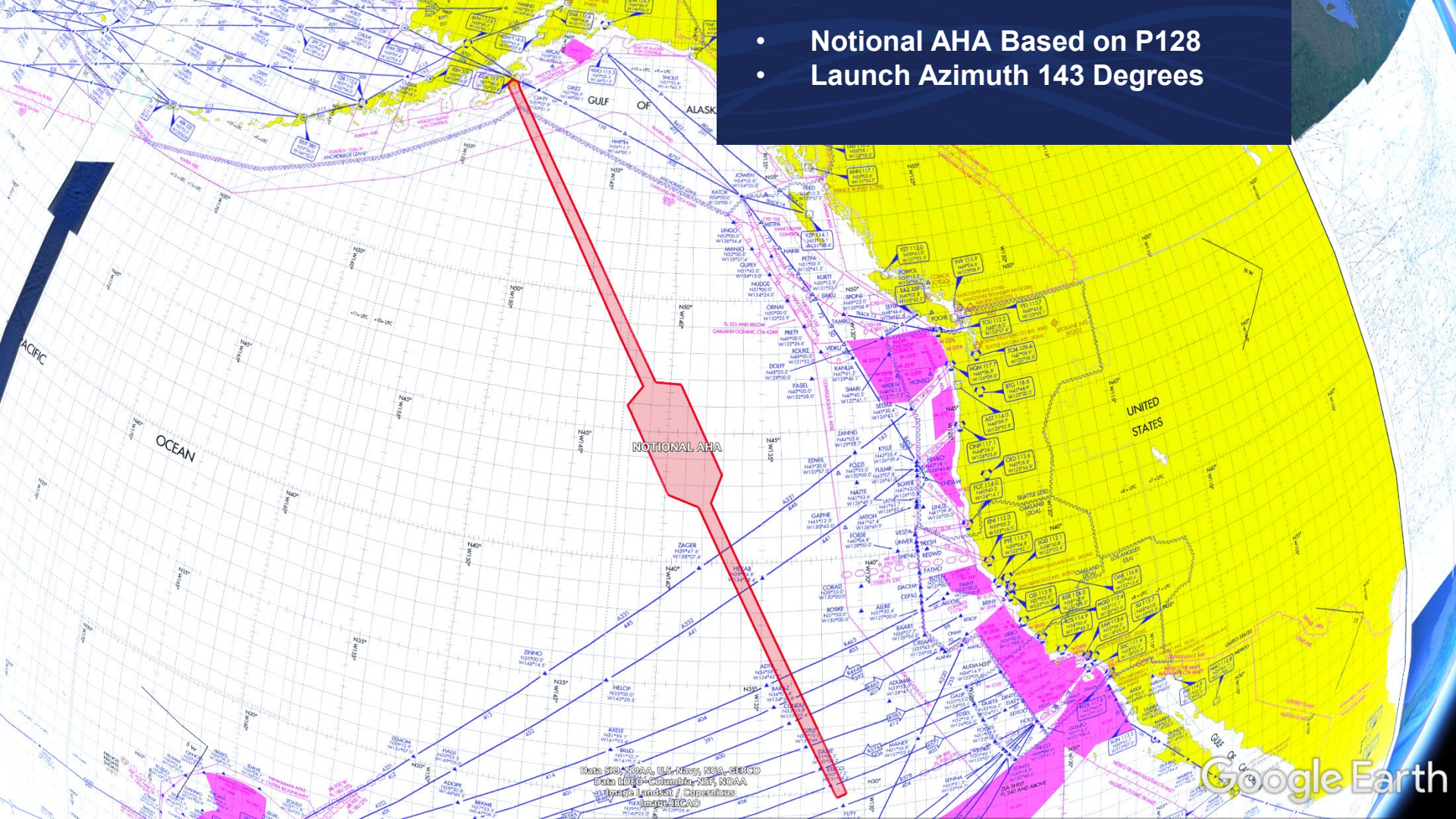
ABL Space Systems

Artemis



Federal Aviation
Administration

- Notional AHA Based on P128
- Launch Azimuth 143 Degrees



Data: © NOAA, U.S. Navy, NGA, GEBCO
Map: Landsat / Copernicus

Google Earth

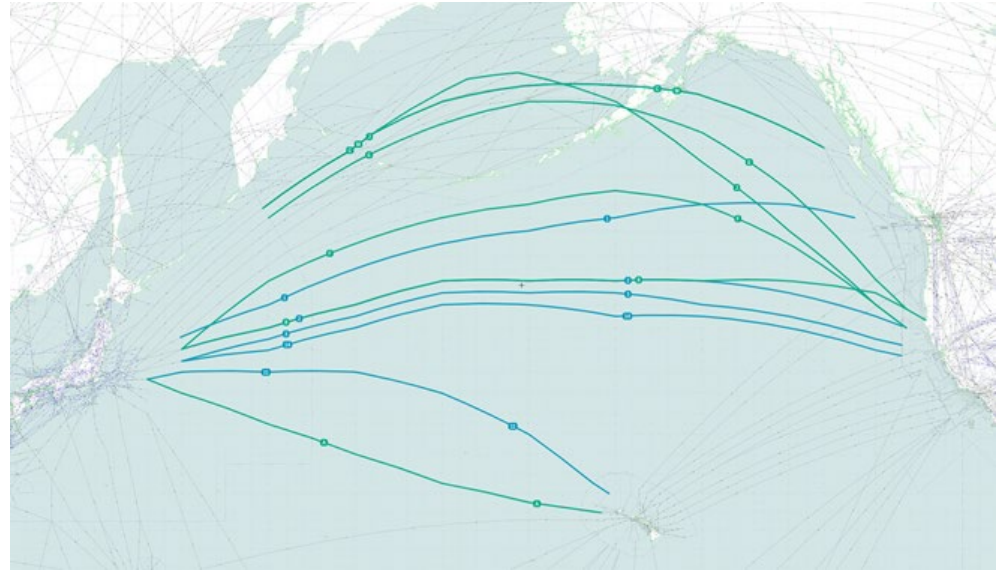
AIDC Updates

- **AIDC W/Port Moresby**
 - Testing complete with the additional upgrade for weather deviations. LOA nearly finalized and preparing for implementation after ATOP upgrade to T-28 mid August.
- **AIDC W/Ujung**
 - Testing complete, LOA in progress with revisions to be complete-TBD
- **AIDC W/Brisbane**
 - Testing completed and new message set implemented in Sept. 2020
- **AIDC W/Manilla**
 - In contact with the Tech Center now to begin testing, LOA revisions needed and possible implementation of D50.



IATA Request - Cost Savings and Efficiency

- **Remove underutilized Pacific Organized Tracks (PACOTS)**
- **Increase UPR flexibility and update references to reflect current information**
- **Cancel the Track Advisory Program for Western Pacific Organized Tracks**
- **Review all Pacific airspace for improved efficiencies**



Pacific Operations Technical Meeting

Actions Completed

- **Removal of the Track Advisory (TA) program for the Western PACOTS.**
- **Eliminated Tracks 8 & M, Texas-Japan due to limited use and need.**
- **Issued NOTAMs to alleviate UPR restrictions for Eastbound PACOTS with JCAB coordination.**

Proposed Actions

- **Coordinate for removal of underutilized PACOTS with JCAB and ZAN. Two additional Tracks are potentially identified.**
- **Conduct Safety Risk Management analysis for changes with operational workforce at Oakland Center to increase UPR flexibility.**



Oakland ARTCC Webpage

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Air Traffic Organization

ATO Organization

Air Route Traffic Control Centers (ARTCC)

Airport Traffic Control Towers (ATCT)



Terminal Radar Approach Control Facilities (TRACON)

Oakland Air Route Traffic Control Center (ZOA)

Print

At the heart of Oakland ARTCC is a team of Air Traffic and Technical Operations Professionals. Oakland Center is unique in that two distinctly different air traffic control functions are handled here. There is the normal en route air traffic control as well as an oceanic air traffic operation that manages the largest volume of international airspace in the world at one facility.

- [KZOA Domestic ATC Operations](#)
- [KZAK Oceanic ATC Operations](#)
- [NOTAMs, TFRs, SUAs](#)



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http://www.faa.gov/about/office_org/headquarters_offices/ato/service_units/air_traffic_services/artcc/oakland/



Questions?

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