

# Automatic Dependent Surveillance – Contract (ADS-C) Climb/Descent Procedure (CDP)



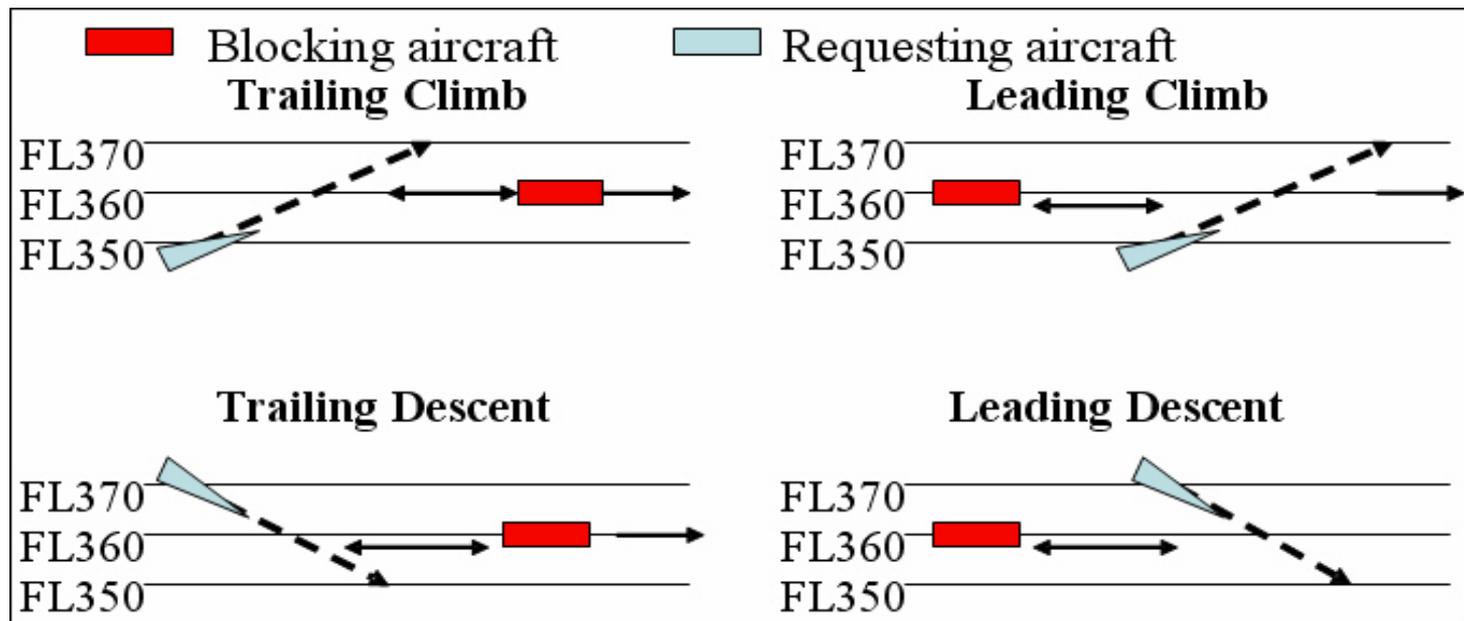
Federal Aviation  
Administration



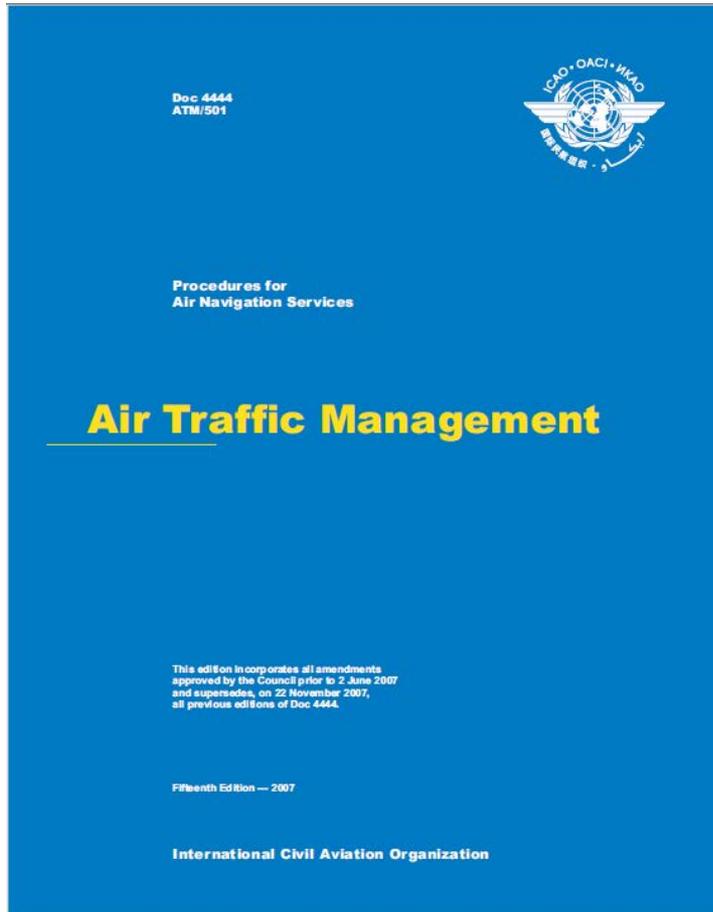
Presented by: Dennis Addison  
AJV-84  
Oceanic and Offshore Procedures

# ADS-C Climb/Descend Procedure (CDP)

- FAA-developed procedure to allow climb/descent thru the altitude of a blocking aircraft
- Uses near simultaneous ADS-C “contract” position reports from the blocking and maneuvering aircraft to perform accurate distance verification between aircraft
- This allows ATC to apply reduced separation (15 miles in-trail, same speed vs 30 miles) for climb/descent thru the altitude of a blocking aircraft



# ADS-C CDP will be published November 2016 – ICAO 4444 & FAA JO 7110.65



U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
Air Traffic Organization Policy

**ORDER  
JO 7110.65W**

Effective Date:  
December 10, 2015

**SUBJ:** Air Traffic Control

This order prescribes air traffic control procedures and phraseology for use by personnel providing air traffic control services. Controllers are required to be familiar with the provisions of this order that pertain to their operational responsibilities and to exercise their best judgment if they encounter situations not covered by it.

Digitally signed by Elizabeth L. Ray  
DN: cn=Elizabeth L. Ray, o=Federal Aviation  
Administration, ou=Air Traffic Organization,  
email=elray@faa.gov, c=US

Elizabeth L. Ray  
Vice President, Mission Support Services  
Air Traffic Organization

Date: **OCT 27 2015**

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Distribution: ZAT-710, ZAT-464

Initiated By: AJV-0  
Vice President, System Operations Services



# August 29, 2016 FAA begins an ADS-C CDP Trial

**NOTICE**

**U.S. DEPARTMENT OF TRANSPORTATION**  
**FEDERAL AVIATION ADMINISTRATION**  
Air Traffic Organization Policy

**N JO 7110.717**

**Effective Date:**  
August 29, 2016

**Cancellation Date:**  
November 10, 2016

**SUBJ:** Automatic Dependent Surveillance – Contract (ADS-C) Climb Descend Procedure (CDP)

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- 1. Purpose of This Notice.** This notice transmits air traffic procedural guidance and requirements applicable to apply reduced longitudinal separation aircraft-to-aircraft during altitude change maneuvers between appropriately equipped aircraft for ADS-C CDP within the Oakland, New York and Anchorage Oceanic Flight Information Regions (FIR).
- 2. Audience.** This notice applies to the Air Traffic Organization (ATO) En Route and Oceanic Service Unit.



# Oakland

**ADS-C CDP  
ATOP software  
enabled  
August 31, 2016**

350  
M657  
ANA178 3  
398  
M634

SIA016

AAL138

D: 078M25

CDP

310  
M648

AAL60

340  
M655

CDP

CPA870  
330 **↑350**  
M655

AAL280  
360  
M643



# ATOP Advanced Technologies Oceanic Procedure ADS-C CDI

CLIMB/DSCEND PROCEDURE

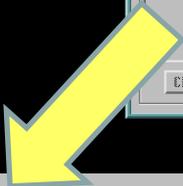
REQUESTING ACID:  BLOCKING ACID:  ON-DEMAND STATUS:

REQUESTING ALT:  COUNTDOWN TIMER:

Clearance:  
(26) CLIMB TO REACH (alt)  BY (time)

Response Area:

CDP-PROBE SEND OVERRIDE UNABLE RESET CLOSE



CLIMB/DSCEND PROCEDURE

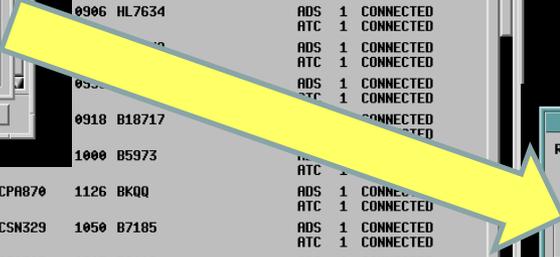
REQUESTING ACID:  BLOCKING ACID:  ON-DEMAND STATUS:

REQUESTING ALT:  COUNTDOWN TIMER:

Clearance:  
(26) CLIMB TO REACH (alt)  BY (time)

Response Area:

CDP-PROBE SEND OVERRIDE UNABLE RESET CLOSE



CLIMB/DSCEND PROCEDURE

REQUESTING ACID:  BLOCKING ACID:  ON-DEMAND STATUS:

REQUESTING ALT:  COUNTDOWN TIMER:

Clearance:  
(26) CLIMB TO REACH (alt)  BY (time)

Response Area:  
Probing : CLIMB TO AND MAINTAIN F350 by 1253  
[CPA870]: No procedural conflict found for flight plan

CDP-CANCEL SEND OVERRIDE UNABLE RESET CLOSE

AFN

Connection	Terminate	Connection	Help
0847	BKQW	ADS 1	CONNECTED
		ATC 1	CONNECTED
0838	N058NW	ADS 1	CONNECTED
		ATC 1	CONNECTED
1111	B2048	ADS 1	INITIATING
		ATC 1	NOT CONNECTED
1129	N209UR	ADS 1	CONNECTED
		ATC 1	CONNECTED
0907	M1613B	ADS 1	CONNECTED
		ATC 1	CONNECTED
0906	HL7634	ADS 1	CONNECTED
		ATC 1	CONNECTED
		ADS 1	CONNECTED
		ATC 1	CONNECTED
0918	B18717	CONNECTED	
1000	B5973	CONNECTED	
		ATC 1	CONNECTED
CPA870	1126 BKQQ	ADS 1	CONNECTED
		ATC 1	CONNECTED
CSN329	1050 B7185	ADS 1	CONNECTED
		ATC 1	CONNECTED
CES583	0917 B2002	ADS 1	CONNECTED
		ATC 1	CONNECTED
UAL892	1044 N26906	ADS 1	CONNECTED
		ATC 1	CONNECTED
AAR212	1052 HL7700	ADS 1	CONNECTED
		ATC 1	CONNECTED
CKK221	1028 B2002	ADS 1	CONNECTED
		ATC 1	CONNECTED
DAL172	1055 N066DA	ADS 1	CONNECTED
		ATC 1	CONNECTED
UAL138	0949 N26906	ADS 1	CONNECTED
		ATC 1	CONNECTED
DAL166	1006 N662US	ADS 1	CONNECTED
		ATC 1	CONNECTED

Contact Center Edit CLEAR Edit ADS Close

AFN

CPA870	MRD	330	170E	180E	170W	160W	150W	140W	KSFU	OR
01	N0498		1232	1311	1350	1430	1512	1601	F A	R

AFN

UAL616	MRD	380	160W	150W	140W	1303	1345	1415	1424	KHSP	OR
01	N0491		1219	1303	1345	1415	1424			F A	R

AFN

ACN034	MRD	380	1338	1408						CYVR	SE
4A	N0497									F A	R

AFN

370	R388	46N	46N	46N	44N					RKSI	4A
		170W	160W	150W	140W					F A	OR
		1158	1238	1321	1411					F A	R

AFN

B788	44N	45N	45N	45N	45N	43N	43N			RJBB	4A
	170E	180E	170W	160W	150W	140W				F A	OR
	1158	1238	1317	1358	1442	1533				F A	R

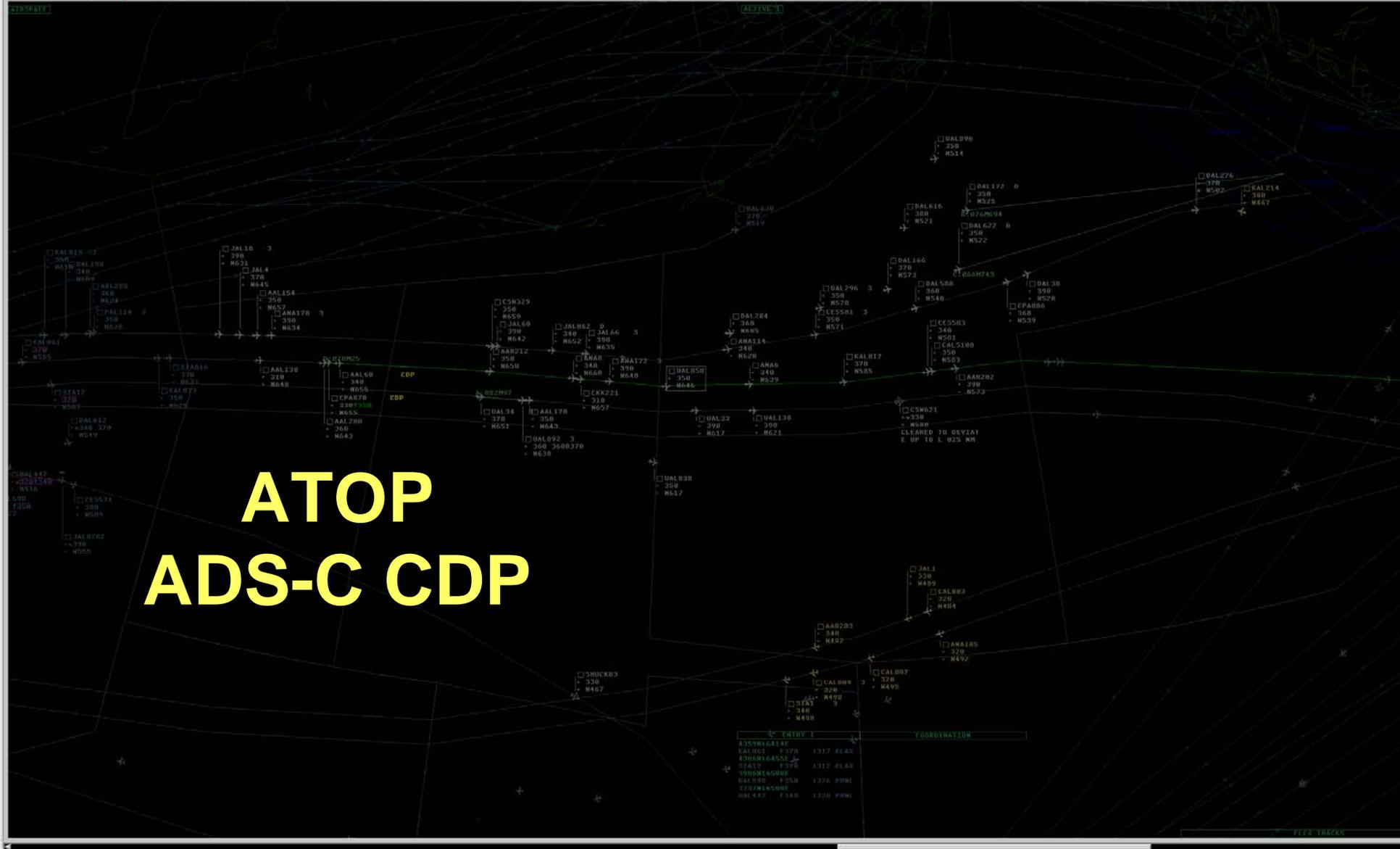
AFN

UAL34	MRD	370	170E	180E	170W	160W	150W	140W		KSFU	OR
01	N0487		1158	1238	1317	1358	1442	1533		F A	R

AFN

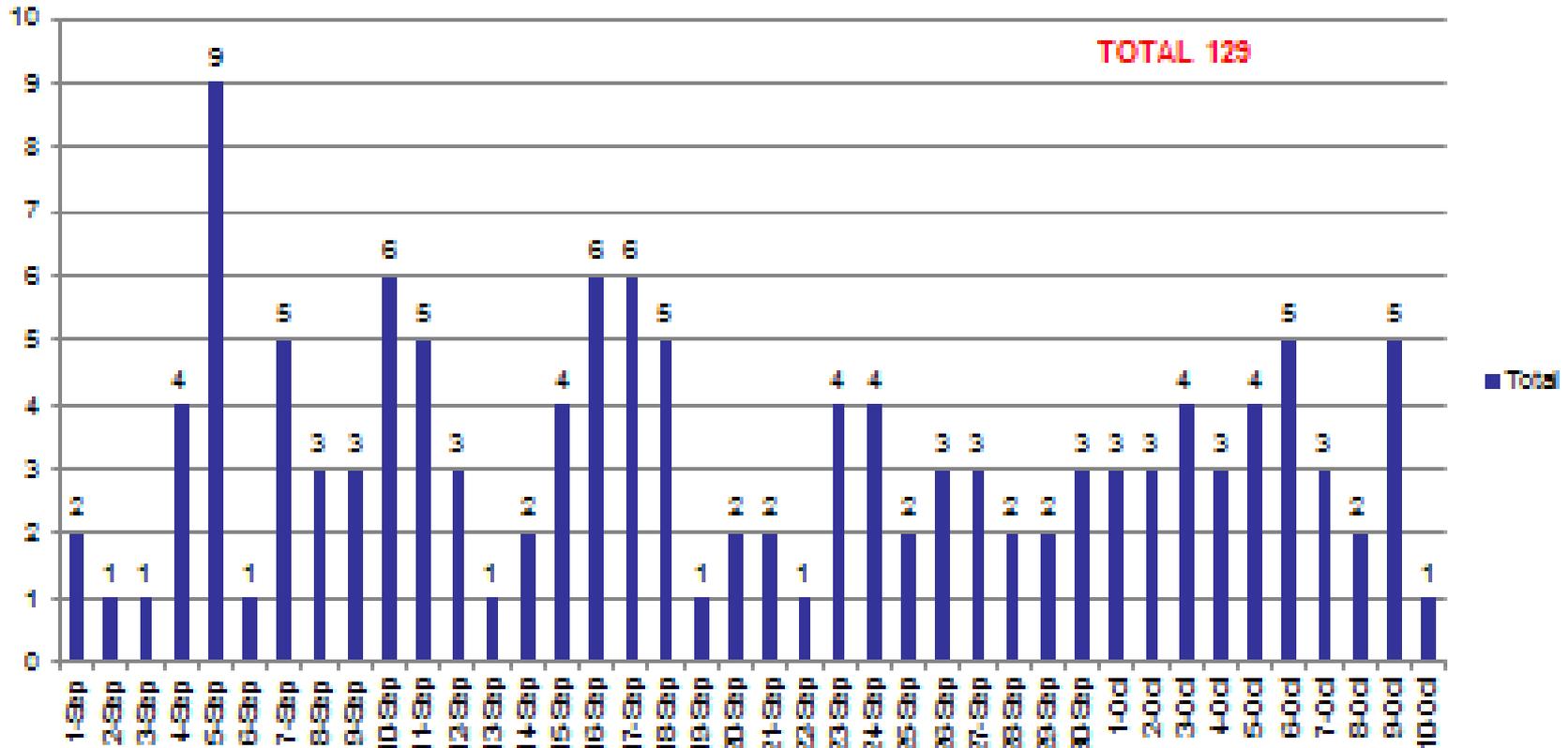
B788	4443N	4450N	46N	47N	47N	48N	49N			RJAR	YY
	16334E	16336E	170E	180E	170W	160W	150W			F A	OR





# Oakland ARTCC – Trial ADS-C Climb/Descent Procedure (CDP)

CDP Usage in KZAK : Sep 1, 2016 - Oct 10, 2016

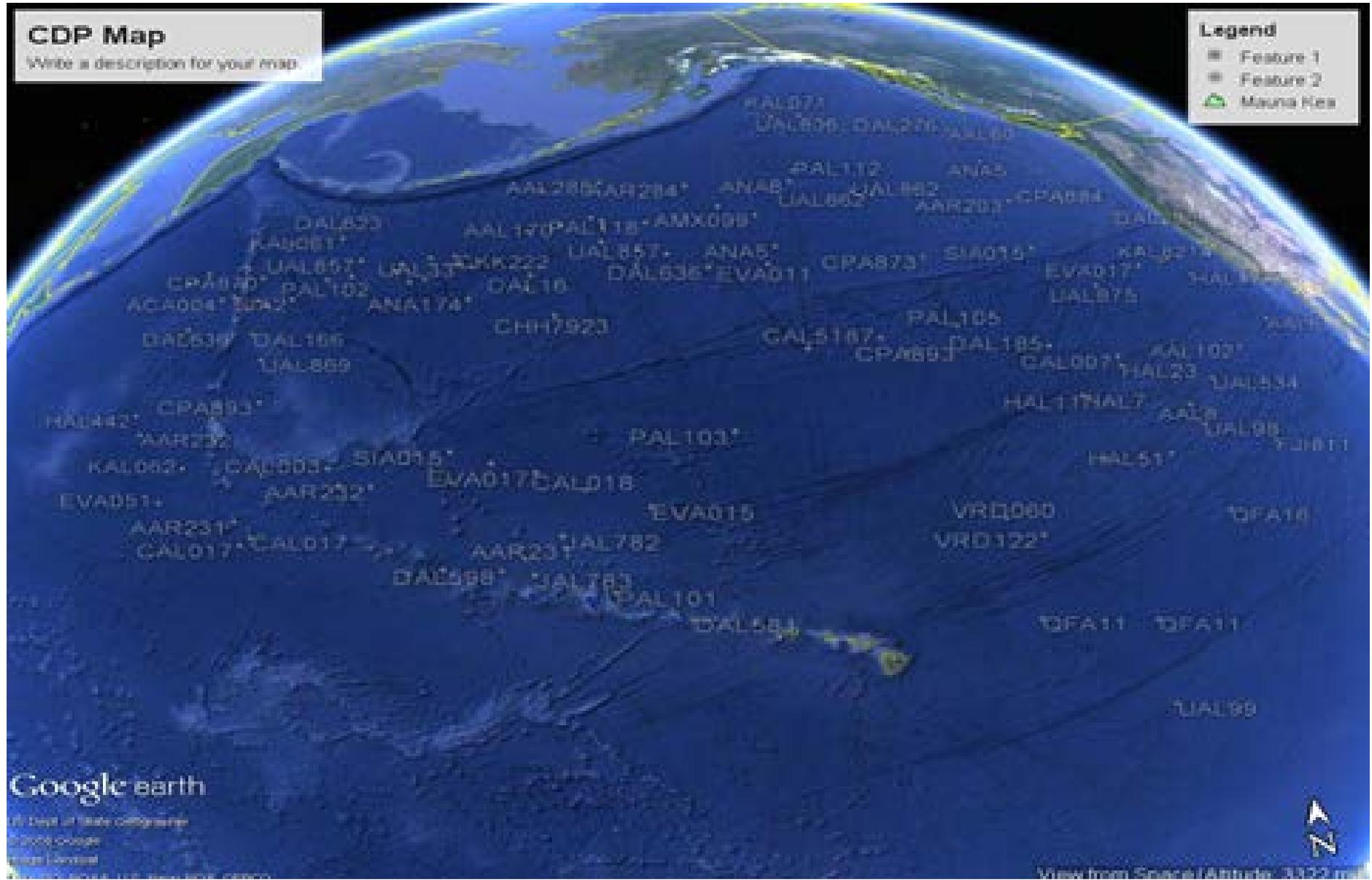


# CDP Map

Write a description for your map.

## Legend

- Feature 1
- Feature 2
- ▲ Mouna Kea



Google Earth

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View from Space (Altitude: 3322 mi)



Federal Aviation Administration

# FAA ADS-C CDP Procedure Implementation

- Oakland began using the CDP procedure on August 31, 2016
- Anchorage is expecting to start using the CDP procedure before the end of October.
- New York is planning to begin use of the CDP before the end of the year after controller training is completed



# Thank you

Comments?  
Questions?



Federal Aviation  
Administration

