

Marine Exchange of Southern California and Vessel Traffic Service of Los Angeles & Long Beach



Information Brief

ITS Workshop

MX SoCal & Container Ship Backup

Captain Kip Louttit
USCG, Retired
Executive Director

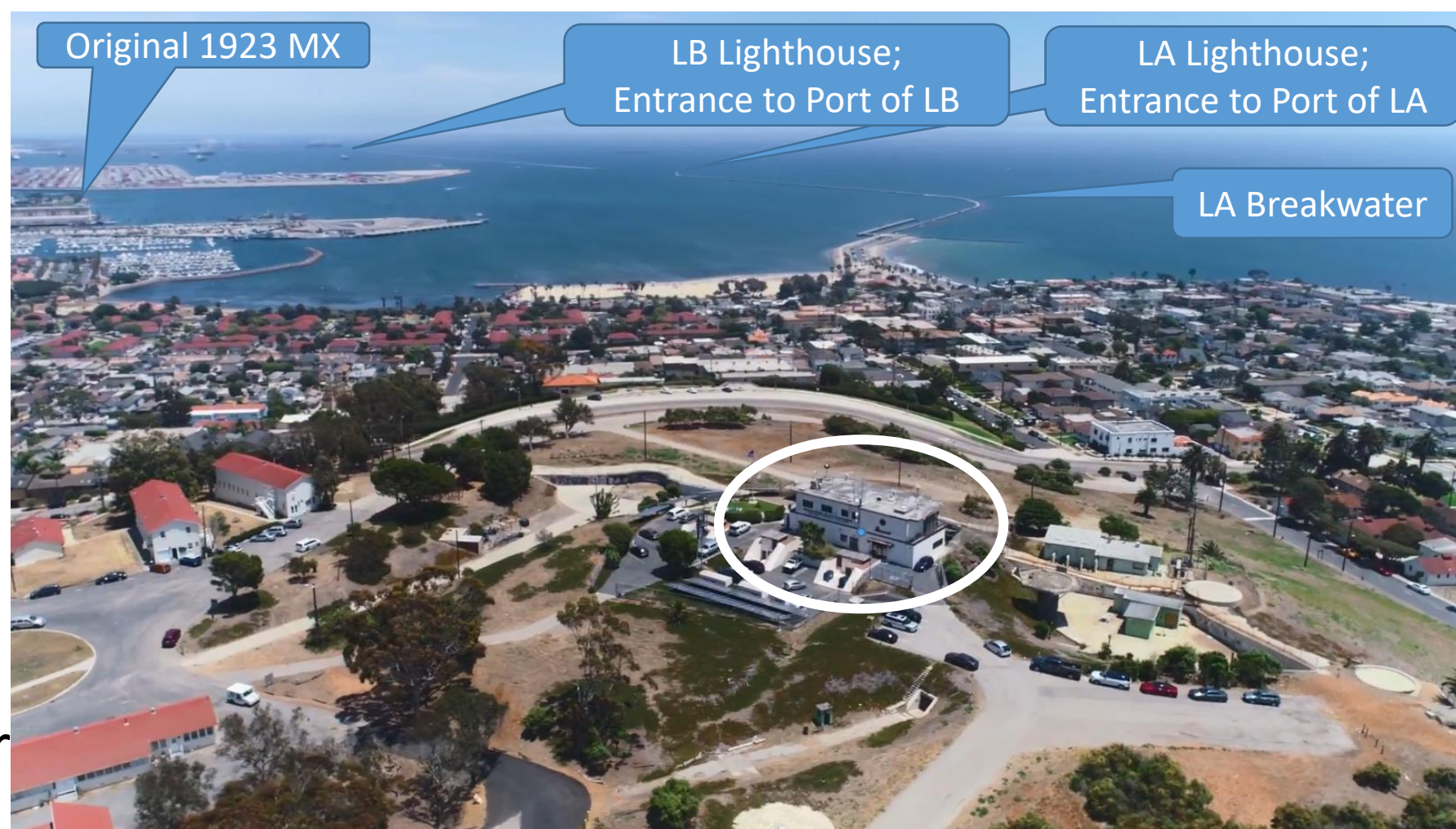
21 September 2022



*Safe, Secure, Efficient, Reliable &
Environmentally Sound Maritime Transportation
Providing Maritime Peace of Mind Since 1923*

Agenda

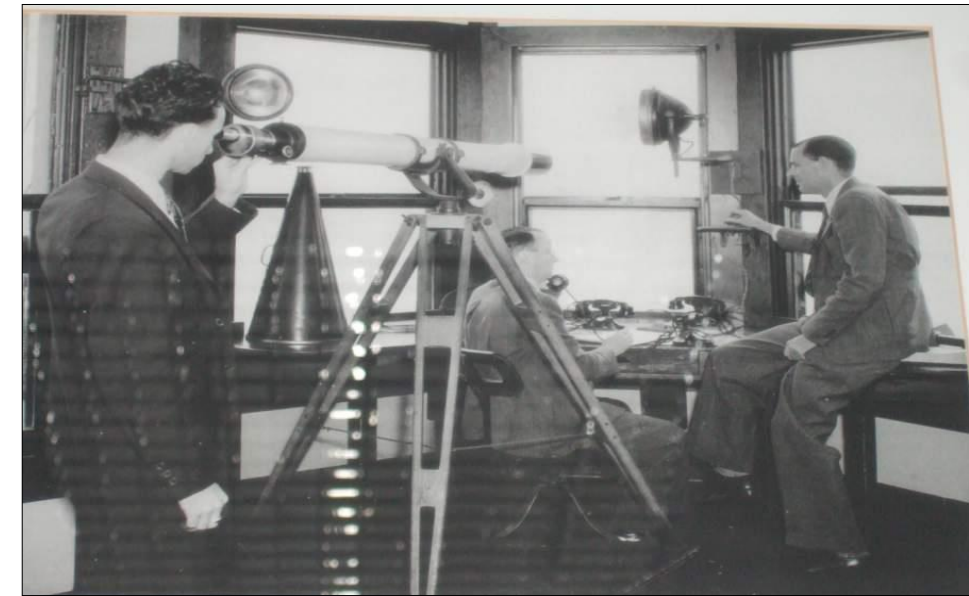
- MISNA
- MX Maritime Information Service
- MX Vessel Traffic Service
- Backup Situation
- New Queuing System for Labor for Container Ships arriving LA/LB & Oakland
- End



Marine Exchange and approaches to
Los Angeles & Long Beach Harbors

MX SoCAL: 1923 to 2022

99 years of changing functions, processes, and technology to meet needs of customers, partners, vessels, and ports.

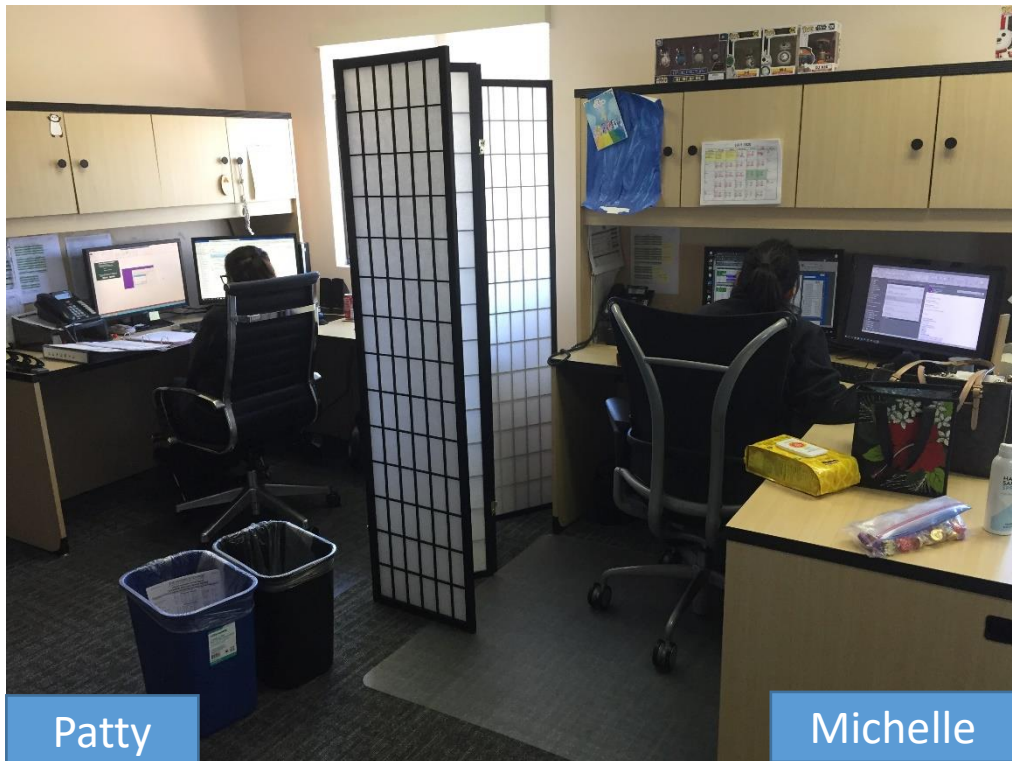


Megaphones, telescopes, blackboards & *spindle* replaced by state of the market technology ³

What we do – 2 main business lines

Maritime Information Service

- 1923 to present
- Gather and collate schedules for ~4,550 vessels per year arriving, departing & moving around ports of LA/LB

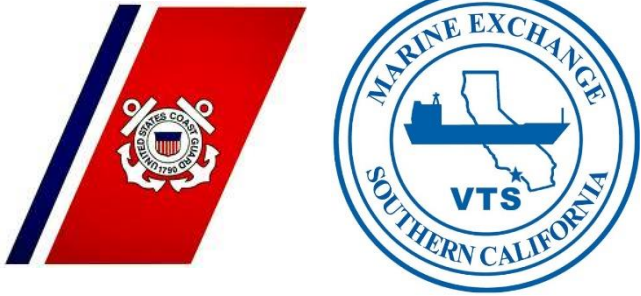


Vessel Traffic Service LA/LB

- 1994 to present
- Unique Public/Private Partnership between MX, USCG & State of California
- Maritime version of Air Traffic Control
- ~28,000 vessel movements per year



The unique CG/MX Public/Private Partnership VTS LA/LB is Safe, Effective & Efficient

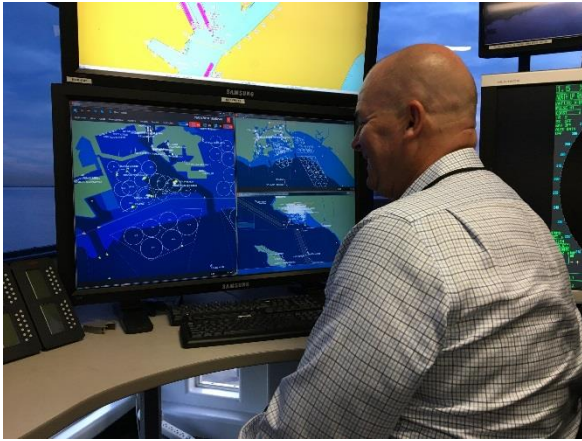


- 11 MX members of VTS
- 6 Coast Guard members
- Each VTS Watch includes:
 - 2 Marine Exchange Controllers, funded by user fees
 - 1 CG Controller, funded by the CG



CG Controller gives MX VTS LA/LB its Captain of the Port Authority

5 Vessel Traffic Service Partners in LA/LB



Los Angeles Pilot Station



Long Beach Pilot Station, Jacobsen Pilot Service



OS2 Victoria Martinez

Marine Exchange VTS Watch Floor



CG Sector LA/LB Command Center on Terminal Island

Photo unavailable for security reasons



OS2 Caleb Figueroa & Mike Martin

Port of Long Beach
Joint Command & Control Center

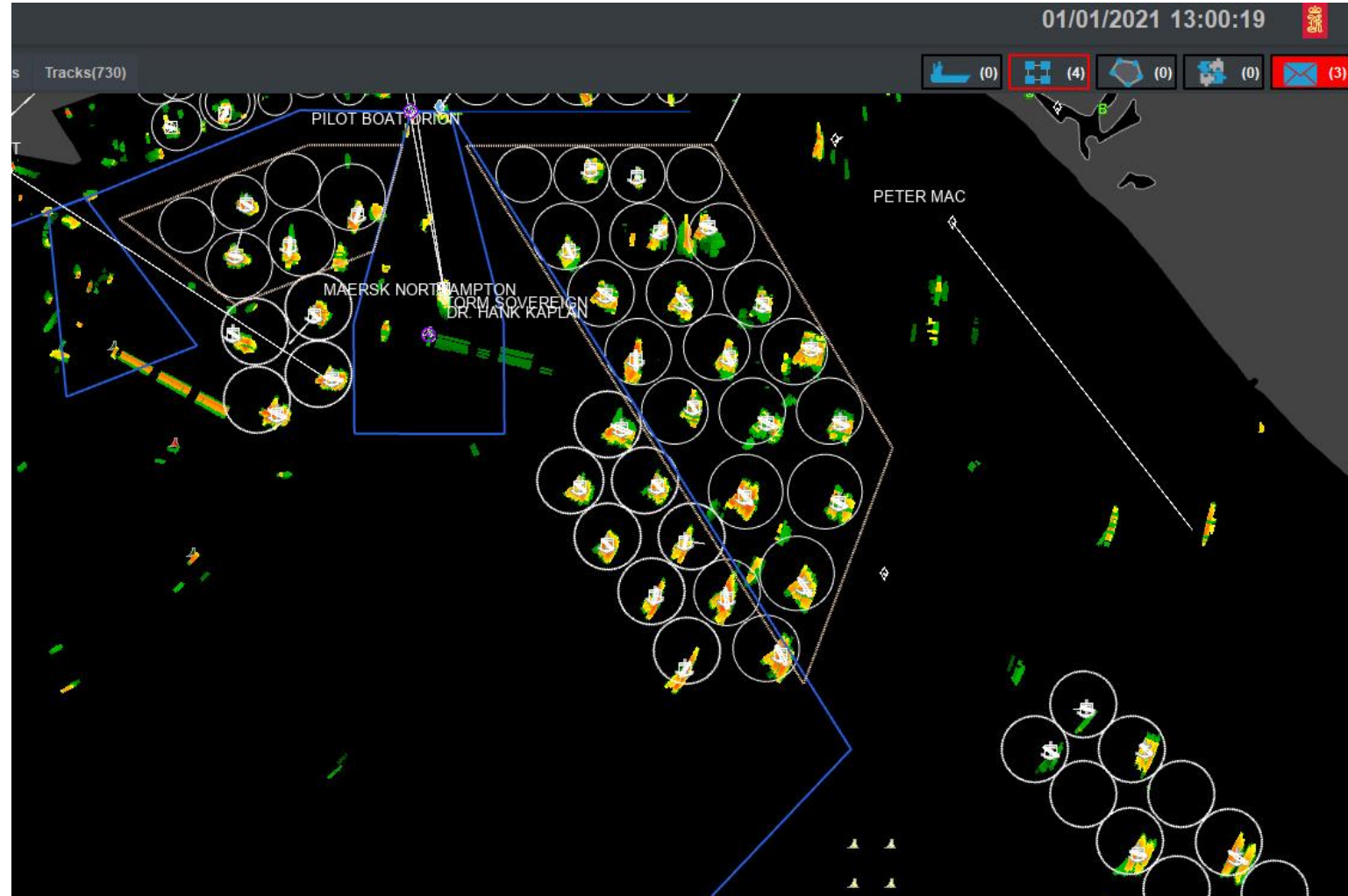
All 5 partners use the same Kongsberg Norcontrol VTS system on one Local Area Network

Anchorage off Los Angeles and Long Beach

Normal, 2019, Pre-COVID
Average 17 ships at anchor



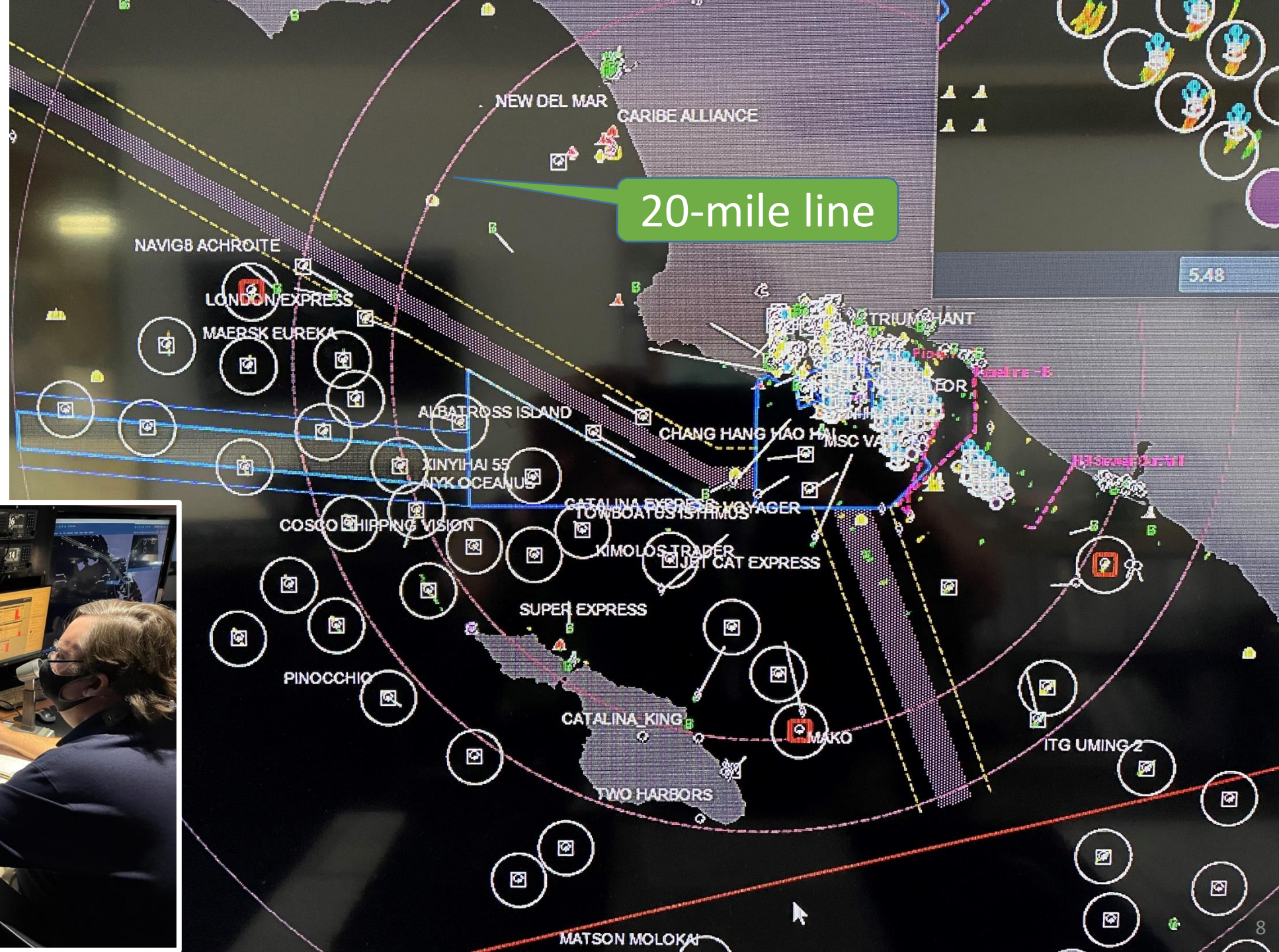
October 2020
As many as 55 anchored



The anchorages are the circles; the yellow and white icons are the ships

Plus,
as many as 62
vessels loitering
in November
2021

Vessel Traffic Supervisor
QM2 Mike Conner
USCG, Retired



The future... the present... ***Working Group:
New Queuing System for Labor:***



Pacific Maritime Association

Plus ~10 Ocean Carriers and Terminals



PMA currently paying

Queuing for Labor for Container Ships:
100-year-old process: Queue upon arrival,
originally at breakwater and then at 20-mile line from LA/LB

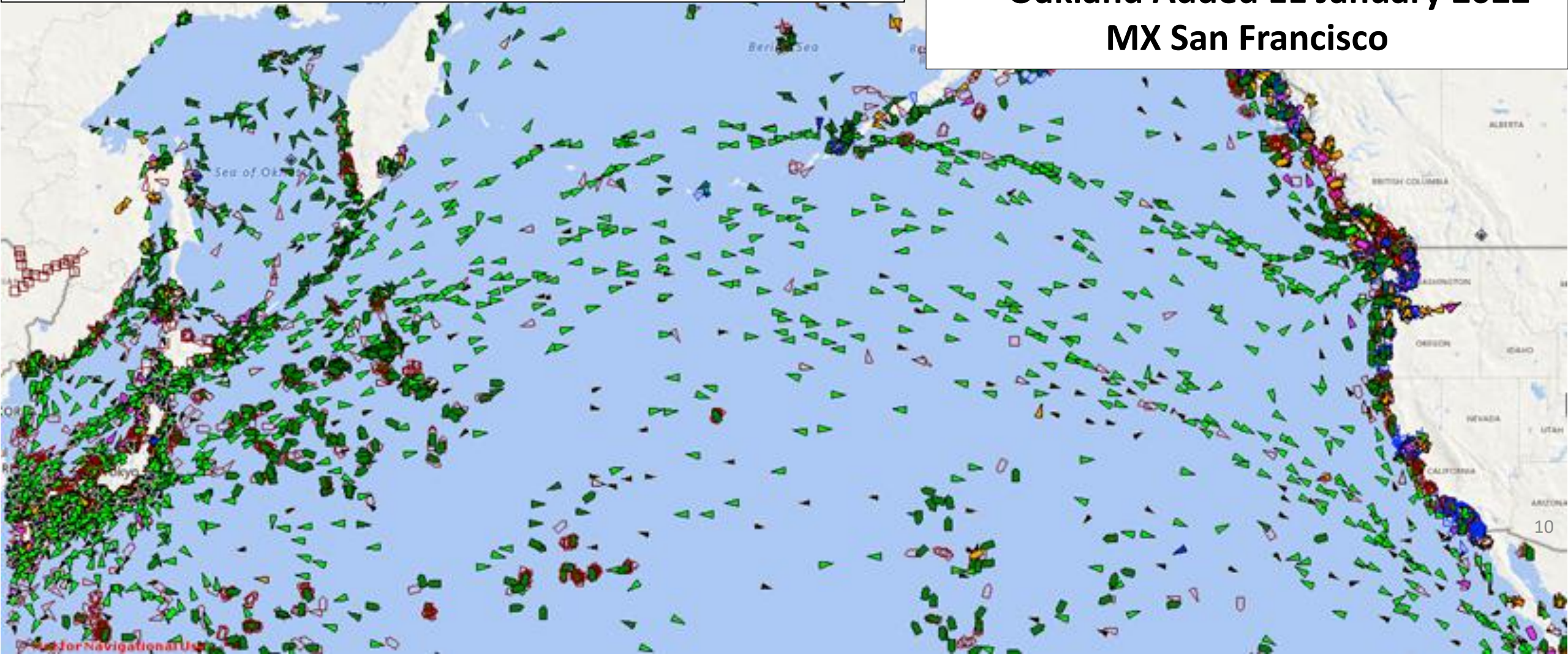
New Process: Queue upon departure from Last Port of Call,
made possible by satellite phones, e-mail & AIS

New system launched 16 Nov 2021
Pacific Maritime Management Service

Partnership of:

- **MX SoCal & MX Alaska (Juneau)**
- **Oakland Added 11 January 2022**

MX San Francisco



SAQA 50 miles from land off Central & Northern CA

This corner of SAQA modified 20 June to avoid ships loitering over Davidson Seamount per NOAA request.
"Commerce and conservation can co-exist!" - NOAA

SAQA 150 miles off land to stay clear of 2 D missile ranges

SA n f lar M

Until vessels have a berthing assignment in the *reasonable future* from LA/LB/Oakland (defined as 72 hours), vessels must stay out of the Safety and Air Quality Area (SAQA)

- Vessels not carrying containers
- Container ships in normal transits to/from ports for normal operations such as refueling, provisions & crew changes
- Force Majeure & Emergencies

Calculated Time of Arrival (CTA) Calculation for Labor:

CTA used in place of ATA (Actual Time of Arrival) at 25-mile line for labor allocation.

$$\begin{aligned} & \text{Date \& Time of departure from Last Port of Call (LPOC)} \\ & + \underline{\text{Voyage time in hours (distance / speed = time)}} \\ & = \text{CTA date and time} \end{aligned}$$

	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Vessel Name	Vessel Ty	IMO (V	Last Port of Call	Next Port of Call	Master's ETD (UTC)	Master's ATD (UTC)	PacMMS ATD (UTC)	Distance	Speed (kts)	Voyage Time	PacMMS CTA (UTC)	PacMMS CTA (Pacific)	C
1	MAUNAWILI - Exp	UCC - Cargo	9268538	Shanghai, CHN (5,742 NM)	Long Beach, USA	6/17/2022 10:00	6/17/2022 4:27	6/17/2022 4:27	5742	21	273	6/28/2022 13:27	6/28/2022 5:27	
3	CMA CGM DUTCH HARBOR	UCC - Cargo	9389409	Oakland, USA (384 NM)	Long Beach, USA	6/15/2022 18:00	6/16/2022 23:56	6/17/2022 0:06	384	17	23	6/17/2022 23:06	6/17/2022 15:06	
4	RENJIAN 27	UCC - Cargo	9484510	Yantian, CHN (6,392 NM)	Los Angeles, USA	6/17/2022 0:00	6/17/2022 1:06	6/17/2022 1:28	6392	18	355	7/1/2022 20:28	7/1/2022 12:28	
5	LURLINE - Exp	UCC - Cargo	9814600	Oakland, USA (384 NM)	Long Beach, USA	6/16/2022 9:00	6/16/2022 8:20	6/16/2022 8:20	384	21	18	6/17/2022 2:20	6/16/2022 18:20	
6	CMA CGM TENERE	UCC - Cargo	9859117	Busan, KOR (5,270 NM)	Los Angeles, USA	6/15/2022 9:00	6/16/2022 2:48	6/16/2022 2:48	5270	18	293	6/28/2022 7:48	6/27/2022 23:48	
7	COSCO FRANCE	UCC - Cargo	9516416	Yantian, CHN (6,392 NM)	Long Beach, USA	6/15/2022 15:00	6/15/2022 16:54	6/15/2022 16:54	6392	18	355	6/30/2022 11:54	6/30/2022 3:54	
8	VOLANS	UCC - Cargo	9430777	Yantian, CHN (6,392 NM)	Los Angeles, USA	6/15/2022 4:00	6/15/2022 7:18	6/15/2022 7:18	6392	18	355	6/30/2022 2:18	6/29/2022 18:18	
9	MAUNALEI	UCC - Cargo	9273686	Honolulu, USA (2,310 NM)	Long Beach, USA	6/15/2022 3:00	6/15/2022 1:06	6/15/2022 3:13	2310	18	128	6/20/2022 11:13	6/20/2022 3:13	
10	GROTON	UCC - Cargo	9246310	Shanghai, CHN (5,742 NM)	Los Angeles, USA	6/15/2022 1:30	6/15/2022 2:36	6/15/2022 2:39	5742	18	319	6/28/2022 9:39	6/28/2022 1:39	
11	MAERSK ESSEX	UCC - Cargo	9458092	Xiamen, CHN (6,142 NM)	Los Angeles, USA	6/14/2022 4:00	6/14/2022 21:24	6/14/2022 21:24	6142	Whole number Minimum Value: - 2147483648. Maximum Value: 2147483647.	341	6/29/2022 2:24	6/28/2022 18:24	
12	EVER LYRIC	UCC - Cargo	9629108	Taipei, TWN (5,963 NM)	Los Angeles, USA		6/14/2022 5:12	6/14/2022 5:12	5963		331	6/28/2022 0:12	6/27/2022 16:12	
13	OOCL TOKYO	UCC - Cargo	9310238	Busan, KOR (5,270 NM)	Long Beach, USA	6/14/2022 0:01	6/14/2022 1:48	6/14/2022 2:12	5270		293	6/26/2022 7:12	6/25/2022 23:12	
14	SM MUMBAI	UCC - Cargo	9401051	Busan, KOR (5,270 NM)	Long Beach, USA	6/13/2022 11:00	6/13/2022 16:54	6/13/2022 16:54	5270		293	6/25/2022 21:54	6/25/2022 13:54	
15	YM UNANIMITY	UCC - Cargo	9462718	Keelung, TWN (5,940 NM)	Los Angeles, USA	6/13/2022 23:00	6/13/2022 16:30	6/13/2022 16:30	5940		330	6/27/2022 10:30	6/27/2022 2:30	
16	BEIJING	UCC - Cargo	9308508	Ningbo, CHN (5,793 NM)	Long Beach, USA	6/14/2022 6:15	6/13/2022 14:54	6/13/2022 14:54	5793	18	322	6/27/2022 0:54	6/26/2022 16:54	
17	HMM PROMISE	UCC - Cargo	9742168	Busan, KOR (5,270 NM)	Long Beach, USA	6/13/2022 15:01	6/13/2022 10:00	6/13/2022 10:00	5270	18	293	6/25/2022 15:00	6/25/2022 7:00	
18	ONE HUMBER	UCC - Cargo	9302140	Tokyo, JPN (4,900 NM)	Long Beach, USA	6/12/2022 18:00	6/13/2022 9:54	6/13/2022 9:54	4900	18	272	6/24/2022 17:54	6/24/2022 9:54	
19	NYK REMUS	UCC - Cargo	9416965	Rodman, PAN (2,944 NM)	Los Angeles, USA	6/10/2022 22:00	6/13/2022 2:36	6/13/2022 2:36	2944	17	173	6/20/2022 7:36	6/19/2022 23:36	
20	WAN HAI 623	UCC - Cargo	9321017	Kaohsiung, TWN (6152NM)	Long Beach, USA		6/13/2022 1:54	6/13/2022 2:05	6152	18	342	6/27/2022 8:05	6/27/2022 0:05	

This report comes from MX AK Daily at 1100 and 2300 & imports into our MARIS system..

Enables slow speed steaming and/or loitering outside SoCal/SAQA waters

Backup = 9

1 more than record low

Container Vessels Inside 25 mi
plus Outside SAQA
LA/LB 1 Jan 2019 - Tue 20 Sep 2022

**7 container ships outside SAQA + 0 anchored backed up + 1
loitering inside 25 miles backed up + 1 inside 25 miles
transiting to a berth backed up = 9 backup**

On 16 November 2021, all **86** container ships in the backup were anchored or loitering within 25-40 miles of the Ports of Los Angeles and Long Beach.

Since PacMMS was implemented 16 Nov 2021, the backup continued (grey line), but was split between vessels loitering or slow-speed steaming outside the SAQA (green arrow) plus those anchored, loitering, or transiting within 25 miles (red line/arrow).

The twin goals of increasing safety & air quality continue to be met.

Record high backup 109 on 9 Jan

18 Container ships at a berth

"Normal" Container Ships at Anchor pre-backup was 0-1

PacMMS start 16 Nov 2021

2019 2020 2021 2022

— Container ships inside 25 miles at anchor, loitering, or transiting & backed up
— Container ships Inside 25 miles at anchor or loitering plus Outside SAQA loitering or slow speed steaming
— Berth

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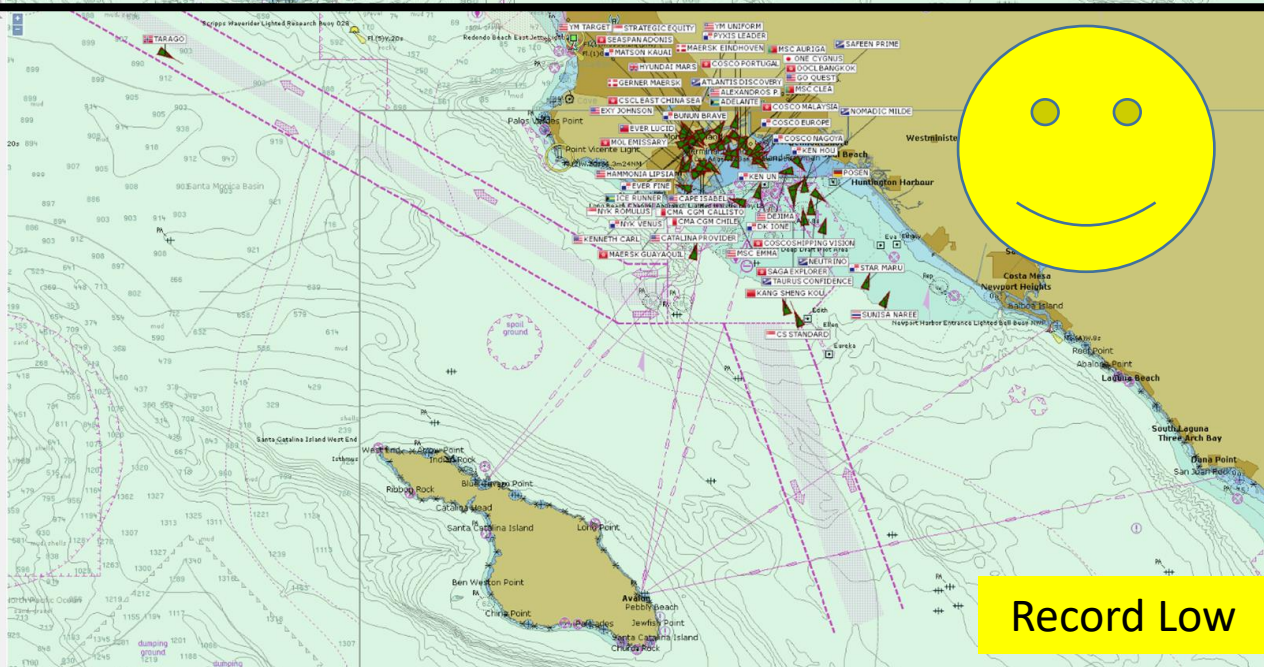
The map displays a dense network of shipping lanes in the Pacific Ocean, with numerous container ships and their destinations labeled. Key locations and ships include:

- Ships and Destinations:**
 - MSC DANIT, MANULANI, KENNETH CARL, MAERSK ALGHEKI, OCEAN SEAGULL, PRETTY VICTORY
 - JUPITER SPIRIT, HYUNDAI JUPITER, MAERSK NORTHWOOD, MPV CLIO
 - CSCL EAST CHINA SEA, COSCO VIRGINIA, COSCO SHIPPING DENALI, MAERSK ENSHI
 - CSL SYROS, ITS UMING 2, COSCO ITALY, LOUISE AUERBACH
 - EVER LOGIC, CMA CGM THALASSA, COSCO HIMALAYAS, YOGI
 - EVER LEADER, CAPE INSCRIPTION, CHIPOLSK GALAXY
 - LONDON EXPRESS, MAERSK ALTAD, WAN HAI S16
 - EVER FRONT, AS SERAFINA, BAL PEACE, MSC RAVEN PRIME
 - AFRICAN WARBLERS, A FLUT, MSC RAVENNA
 - PO WAN, COSCO KAOHSIUNG, MARITIME SONIA
 - MAERSK EUREKA, XINYI HAI 55, JPO LIBRA, COSTA MESA
 - CAP SAN JUAN, CMA CGM CALLISTO, GENEER MAERSK, ZIM VIRGINIA
 - COSCO SHIPPING VISION, CMA CGM MISSISSIPPI, BRIGHTON, CORONA DEL MAR
 - GO QUEST, AS CONSTANTINA, ARISTOMENIS
 - CATALINA PROVIDER, AS SERENA, COSCO MALAYAS
 - ONE IOT, CMA CGM J. ADAMS, IRIS PAOYI
 - HANSA OSTERBURG, HYUNDAI PLUTO, HYUNDAI INTEGRAL
 - HYUNDAI HONGKONG, KOBEXPRESS, MSC ANYA
 - ONE COMMITMENT, NAVIOS DELIGHT, MP THE BELCHICK, NBA MONET
 - ONE HAMMER SMITH, ONE MANHATTAN, FILIA T, SPAR MIRA
 - WESTERN MAPLE, WAN HAI 517, PORTLAND BAY, STAMESIS
 - YM TARGET, PINOCCHIO, WAN HAI 512, WAN HAI 517, MSC CLORINDA
 - YM UNICORN, NYK OCEANUS, ZHONG GU SHAN DONG, MATSON MOLOKAI
 - NYK OCEANUS, NYK THEMIS, MINNA, ONE MANHATTAN, FILIA T
 - MAERSK ELBA, REN JIAN 25, CAP JERVIS, CAP CAPECORN, CONTI CONQUEST, DRY BEAM NEO, COSCO FORTUNE, MAERSK ANTARES, BIGLI, MSC VANDYA, HYUNDAI PRIVILEGE, COSCO TAICANG, SAGA ADVENTURE, WESTERN MAPLE, YM TARGET, YM UNICORN, NYK OCEANUS, MAERSK ELBA, REN JIAN 25, CAP JERVIS, CAP CAPECORN, CONTI CONQUEST, DRY BEAM NEO, COSCO FORTUNE, MAERSK ANTARES, BIGLI, MSC VANDYA, HYUNDAI PRIVILEGE, COSCO TAICANG, SAGA ADVENTURE, WESTERN MAPLE, YM TARGET, YM UNICORN, NYK OCEANUS
- Ports and Islands:**
 - San Nicolas Island, Santa Barbara Island, San Juan Rock, San Clemente
 - ISABELA ISLAND, COSCO CAROLINA, ONE THESEUS
- Other Labels:**
 - disposal ground, military practice, ground

A large red circle with a sad face is overlaid on the right side of the map.



The new queuing system for labor was implemented this date, operated by PacMMS.

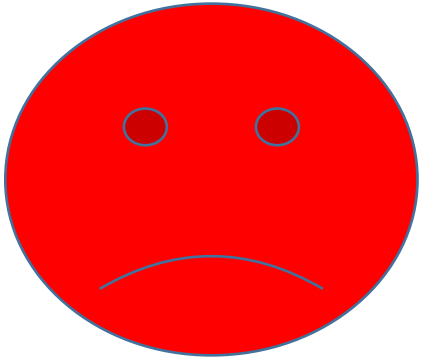


Record Low

We first got down to 0
vessels of all types loitering
on 3 Feb.

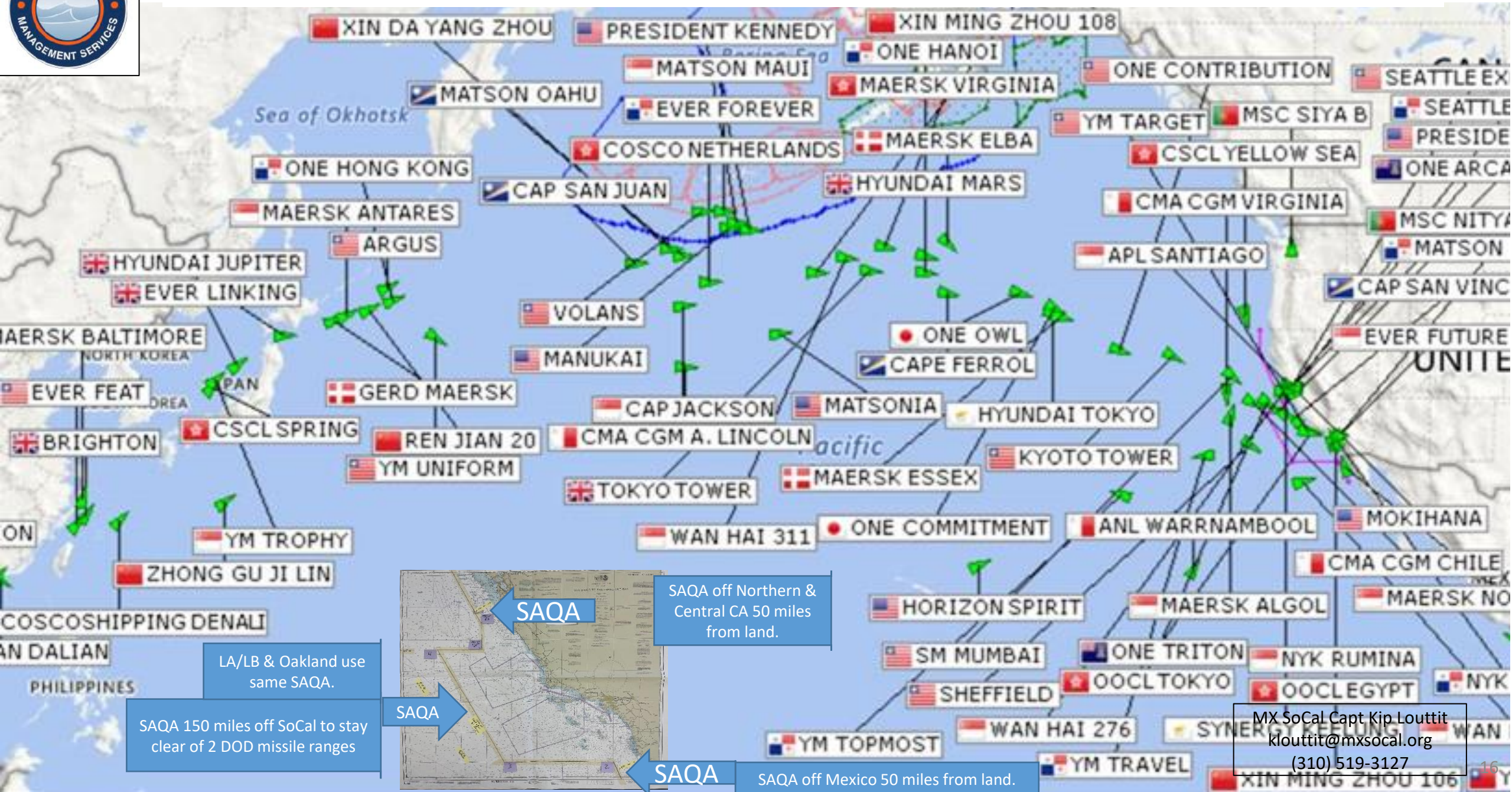
0 vessels loitering
Many days since

Anchorage 24 Oct 2021



The anchorages yesterday at noon yesterday
20 vessels anchored including 0 container ships. 1 container ship loitering.
Good for safety and air quality.



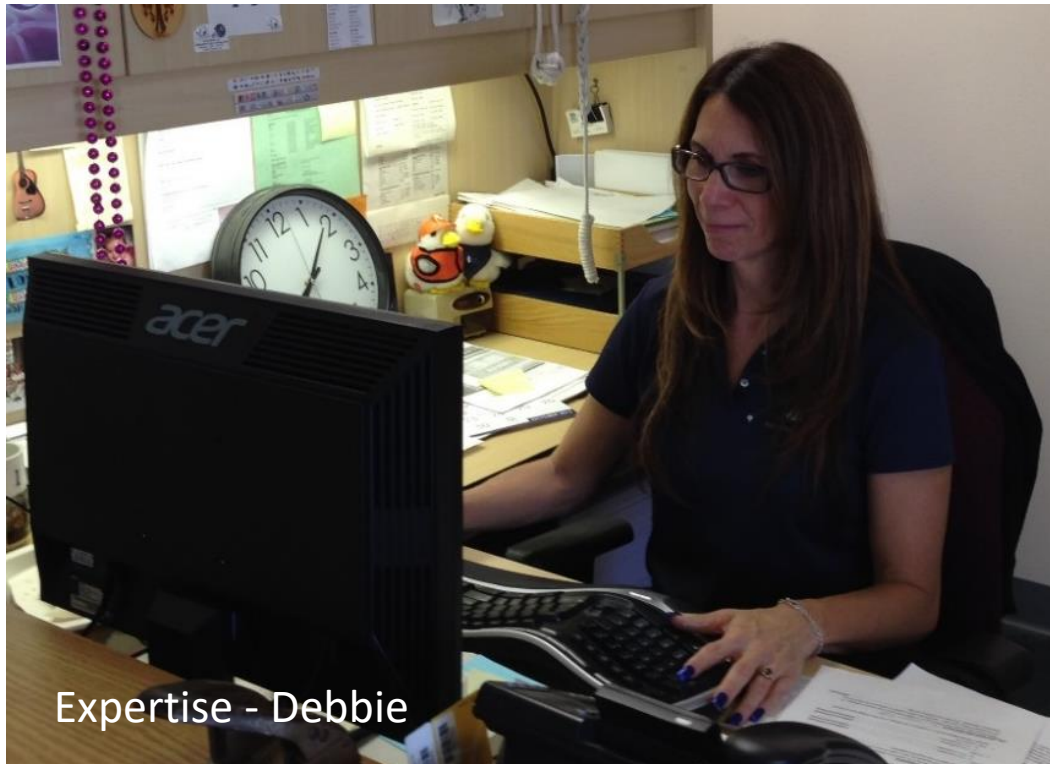


Modern Equipment
+ Great MX & CG People
= a Strong Marine Exchange & VTS

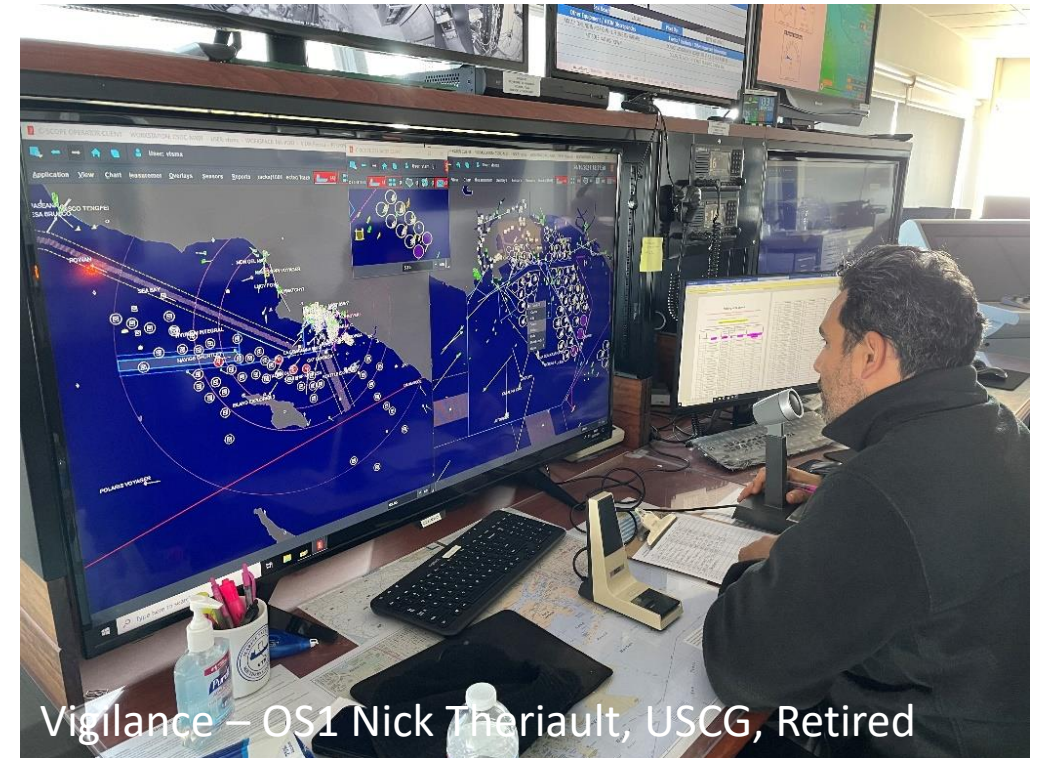
...helping ensure a safe, secure, efficient, reliable,
and environmentally sound
marine transportation system for SoCal & LA-LB



Teamwork - OSC Robert & Mike M



Expertise - Debbie



Vigilance - OS1 Nick Theriault, USCG, Retired

Challenges:

Huge ships... getting bigger

Deep draft tankers... up to 69'

Narrow channels

Tight schedules

Bad weather

7x24x365 MX, VTS, Pilots, Tugs, Ports & Port Partners
work together to ensure safe, secure, efficient, reliable,
and environmentally sound vessel movement



Saturday morning 26 Sep 2020. *Rush hour.*



Deepest Draft: 69' entering Long Beach

VTS Record of success:

More than 800,000 safe transits
during 28 years of operations.

We enable close, efficient & safe spacing



We enable safe ship movement when other ports would need to shut down.



MX mission: 7 x 24 x 365 provide traffic management, communications, and maritime information services to promote a safe, secure, efficient, reliable and environmentally sound marine transportation system.

MX: There when you need us most... emergencies (fires, medical, rescue), fog and bad weather, traffic anomalies, natural or man-made disasters, etc.

**24 Hour Vessel Traffic Center
Watch Floor: 310-832-6411
www.mxsocal.org
info@mxsocal.org
VHF-FM Channel 14**

Providing Maritime Peace of Mind since 1923

Point of Contact:
CAPT Kip Louttit, Executive Director
Work: 310-519-3127 Cell: 310-897-1714 klouttit@mxsocal.org

Backup

CONTAINER SHIP BACKUP = 9

1 more than record low

18 container ships at a berth working cargo + 0 at anchor backed up + 1 loitering inside 25 miles backed up + 1 inside 25 miles transiting to a berth + 7 slow-speed steaming or loitering (outside the SAQA) = 27 total container ships inside 25 miles of LA/LB plus outside SAQA backed up.

0 container ship at anchor backed up plus 1 loitering inside 25 miles backed up plus 1 inside 25 miles transiting to a berth plus 7 slow speed steaming or loitering outside the SAQA equals **Total Container Ship Backup of 9**

Brown + grey= purple

"Normal" Container Ships at Anchor pre-backup was 0-1

18 container ships at a berth

PacMMS start
16 Nov

Record high
backup 109 on
9 Jan 2022

2019 2020 2021 2022

— Container ships Inside 25 miles at anchor or loitering plus Outside SAQA loitering or slow speed steaming

— Berth

MX SoCal Capt Kip Louttit klouttit@mxsocal.org (310) 519-3127

PacMMS New Queuing System backup calculation:
inside 25 mi + # outside SAQA = Backup

Per the Master Queuing List, there are 7 container ships outside the SAQA whose calculated time of arrival (CTA) is before the time of this noon report.

These container ships would be inside 25 miles were it not for the new queuing system for labor, which spreads them outside the SAQA across the Pacific slow-speed-steaming or loitering.

Container Ships **Outside** Safety and Air Quality Area in backup

16-Nov	Today's data	1-Dec	54	1-Jan	84	1-Feb	94	1-Mar	56	1-Apr	36	2-May	36	2-Jun	30	2-Jul	16	2-Aug	15								
17-Nov	7	2-Dec	55	2-Jan	84	2-Feb	90	2-Mar	58	2-Apr	35	3-May	32	3-Jun	27	3-Jul	17	3-Aug	15								
18-Nov	8	3-Dec	56	3-Jan	81	3-Feb	88	3-Mar	55	3-Apr	34	4-May	32	4-Jun	28	4-Jul	20	4-Aug	15								
19-Nov	10	4-Dec	65	4-Jan	85	4-Feb	83	4-Mar	53	4-Apr	30	5-May	31	5-Jun	25	5-Jul	24	5-Aug	14								
20-Nov	13	5-Dec	61	5-Jan	88	5-Feb	84	5-Mar	52	5-Apr	32	6-May	32	6-Jun	28	6-Jul	24	6-Aug	13								
21-Nov	20	6-Dec	59	6-Jan	89	6-Feb	76	6-Mar	45	6-Apr	30	7-May	30	7-Jun	25	7-Jul	21	7-Aug	10								
22-Nov	20	7-Dec	58	7-Jan	93	7-Feb	77	7-Mar	48	7-Apr	38	8-May	29	8-Jun	22	8-Jul	23	8-Aug	10								
23-Nov	33	8-Dec	66	8-Jan	92	8-Feb	75	8-Mar	47	8-Apr	39	9-May	31	9-Jun	20	9-Jul	25	9-Aug	9								
24-Nov	35	9-Dec	68	9-Jan	97	9-Feb	74	9-Mar	47	9-Apr	30	10-May	30	10-Jun	18	10-Jul	25	10-Aug	9								
25-Nov	38	10-Dec	67	10-Jan	88	10-Feb	75	10-Mar	46	10-Apr	27	11-May	31	11-Jun	20	11-Jul	23	11-Aug	10								
26-Nov	43	11-Dec	68	11-Jan	89	11-Feb	73	11-Mar	42	11-Apr	39	12-May	28	12-Jun	16	12-Jul	25	12-Aug	10								
27-Nov	44	12-Dec	69	12-Jan	93	12-Feb	77	12-Mar	44	12-Apr	40	13-May	35	13-Jun	26	13-Jul	25	13-Aug	11								
28-Nov	44	13-Dec	71	13-Jan	94	13-Feb	73	13-Mar	42	13-Apr	41	14-May	31	14-Jun	27	14-Jul	25	14-Aug	12								
29-Nov	45	14-Dec	71	14-Jan	94	14-Feb	72	14-Mar	40	14-Apr	37	15-May	29	15-Jun	28	15-Jul	22	15-Aug	16								
30-Nov	51	15-Dec	74	15-Jan	93	15-Feb	72	15-Mar	44	15-Apr	36	16-May	31	16-Jun	22	16-Jul	20	16-Aug	16								
The new queuing system for labor started on 16 Nov 2021, so it took a few weeks in November for all ships to enroll.		16-Dec	71	16-Jan	96	16-Feb	69	16-Mar	44	16-Apr	39	17-May	30	17-Jun	19	17-Jul	20	17-Aug	14								
		17-Dec	72	17-Jan	93	17-Feb	69	17-Mar	45	17-Apr	42	18-May	27	18-Jun	21	18-Jul	22	18-Aug	10								
		18-Dec	71	18-Jan	90	18-Feb	69	18-Mar	44	18-Apr	45	19-May	29	19-Jun	23	19-Jul	21	19-Aug	10								
		19-Dec	69	19-Jan	93	19-Feb	68	19-Mar	47	19-Apr	44	20-May	26	20-Jun	27	20-Jul	19	20-Aug	12								
		20-Dec	66	20-Jan	95	20-Feb	64	20-Mar	41	20-Apr	40	21-May	31	21-Jun	21	21-Jul	19	21-Aug	11								
		21-Dec	67	21-Jan	97	21-Feb	60	21-Mar	43	21-Apr	43	22-May	29	22-Jun	16	22-Jul	20	22-Aug	9								
		22-Dec	65	22-Jan	98	22-Feb	60	22-Mar	39	22-Apr	42	23-May	25	23-Jun	16	23-Jul	18	23-Aug	9								
		23-Dec	66	23-Jan	93	23-Feb	58	23-Mar	38	23-Apr	42	24-May	26	24-Jun	15	24-Jul	17	24-Aug	10								
		24-Dec	66	24-Jan	93	24-Feb	59	24-Mar	37	24-Apr	44	25-May	25	25-Jun	17	25-Jul	17	25-Aug	10								
		25-Dec	74	25-Jan	90	25-Feb	61	25-Mar	39	25-Apr	45	26-May	26	26-Jun	18	26-Jul	23	26-Aug	9								
This data goes with slides 1, 4 & 5.		26-Dec	81	26-Jan	92	26-Feb	60	26-Mar	40	26-Apr	41	27-May	25	27-Jun	19	27-Jul	26	27-Aug	10								
		27-Dec	77	27-Jan	95	27-Feb	61	27-Mar	39	27-Apr	40	28-May	25	28-Jun	17	28-Jul	18	28-Aug	10								
		28-Dec	78	28-Jan	95	28-Feb	56	28-Mar	39	28-Apr	40	29-May	27	29-Jun	14	29-Jul	21	29-Aug	7								
		29-Dec	73	29-Jan	101	Record Hi		29-Mar	40	29-Apr	41	30-May	29	30-Jul	19	30-Aug	10										
		30-Dec	82	30-Jan	94			30-Mar	41	30-Apr	40	31-May	30	31-Jul	18	31-Aug	10										
		31-Dec	81	31-Jan	91			31-Mar	37							1-Sep	8										
																			2-Sep	9							
																		3-Sep	9								
																		4-Sep	10								
																		5-Sep	10								
																		6-Sep	10								
																		7-Sep	9								
																		8-Sep	9								
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																		11-Sep	8								
																		12-Sep	12								
																		13-Sep	10								
																		14-Sep	10								
																		15-Sep	11								
																		16-Sep	12								
																		17-Sep	10								
																		18-Sep	10								
																		19-Sep	10								
																		20-Sep	7								



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Record: 116 container ships at berth, anchored or loitering inside 25 miles 16 Nov

Record: 86 container vessels at anchor or loitering inside 25 miles 16 Nov

18 container ships at a berth loading and/or discharging containers

"Normal" Container Ships at Anchor pre-COVID/back up was 0-1

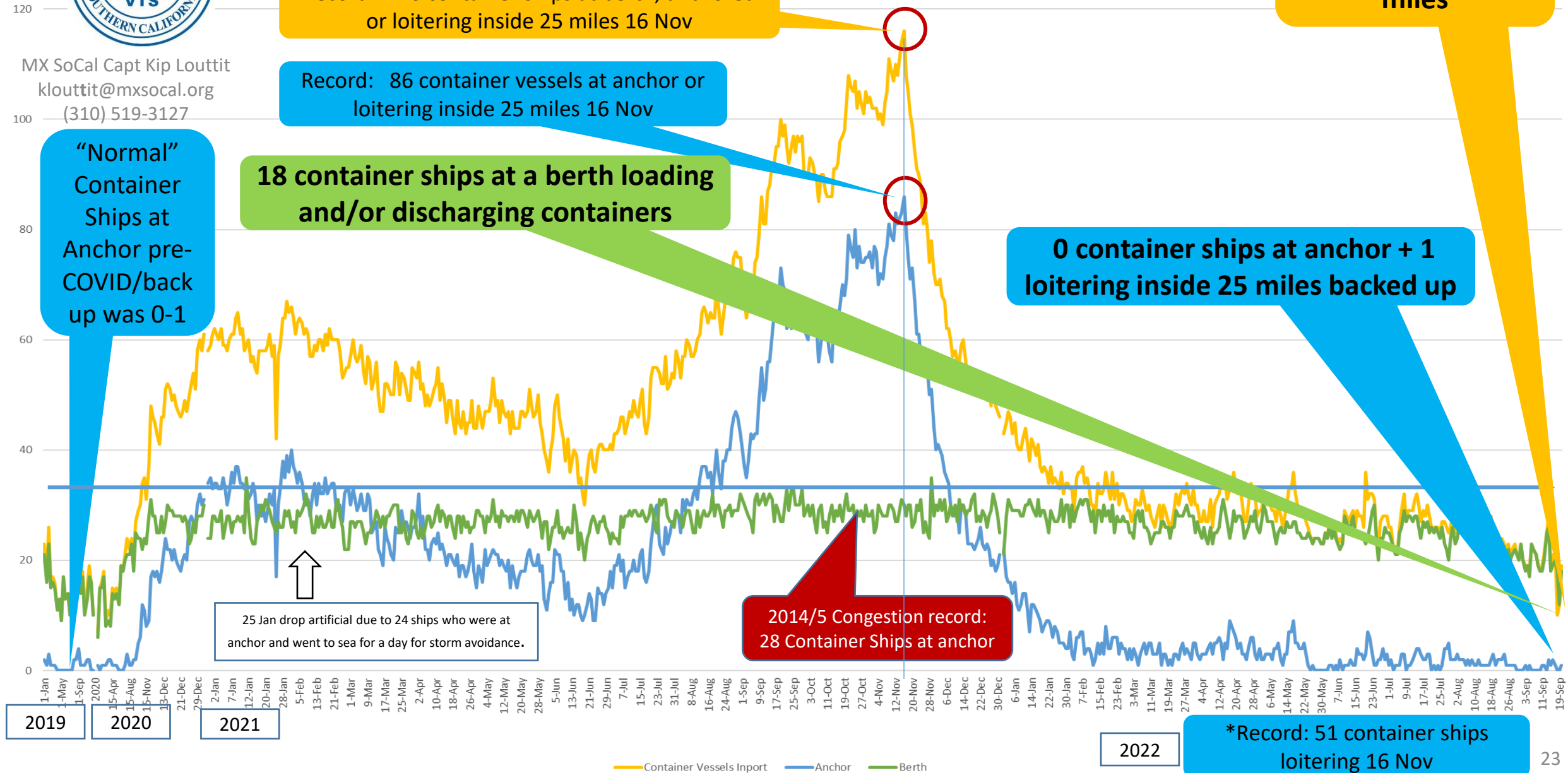
0 container ships at anchor + 1 loitering inside 25 miles backed up

19 total container ships inside 25 miles

2014/5 Congestion record: 28 Container Ships at anchor

25 Jan drop artificial due to 24 ships who were at anchor and went to sea for a day for storm avoidance.

*Record: 51 container ships loitering 16 Nov



Backup = 9

1 more than record low

Container Vessels Inside 25 mi
plus Outside SAQA
LA/LB 1 Jan 2019 - Tue 20 Sep 2022

**7 container ships outside SAQA + 0 anchored backed up + 1
loitering inside 25 miles backed up + 1 inside 25 miles
transiting to a berth backed up = 9 backup**

On 16 November 2021, all **86** container ships in the backup were anchored or loitering within 25-40 miles of the Ports of Los Angeles and Long Beach.

Since PacMMS was implemented 16 Nov 2021, the backup continued (grey line), but was split between vessels loitering or slow-speed steaming outside the SAQA (green arrow) plus those anchored, loitering, or transiting within 25 miles (red line/arrow).

The twin goals of increasing safety & air quality continue to be met.

Record high backup 109 on 9 Jan

18 Container ships at a berth

"Normal" Container Ships at Anchor pre-backup was 0-1

PacMMS start 16 Nov 2021

7
2

2019

2020

2021

2022

— Container ships inside 25 miles at anchor, loitering, or transiting & backed up
— Container ships Inside 25 miles at anchor or loitering plus Outside SAQA loitering or slow speed steaming
— Berth

Total Vessels of all Types Inside 25 mi
plus Outside SAQA
LA/LB 1 Jan 2019 - Tue 20 Sep 2022

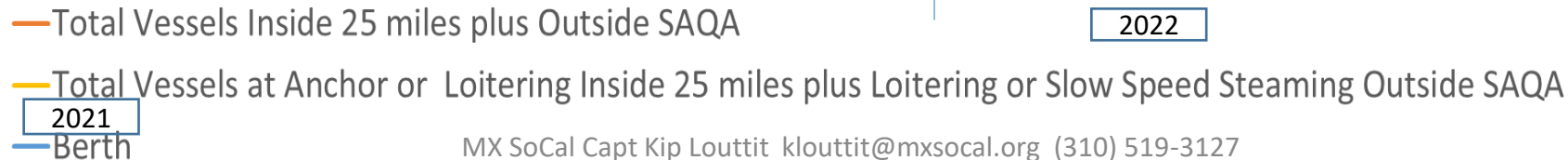
PacMMS start
16 Nov

**74 vessels of all types at a berth in LA/LB or anchored in/off LA/LB
+ 7 container ships outside SAQA backed up = 81 total vessels of all
types at a berth or anchored, or loitering inside 25 miles or slow-
speed-steaming or loitering outside the SAQA enroute LA/LB.**

53 total vessels at a berth

**21 vessels of all types anchored in/off LA/LB + 7 container ships
slow-speed-steaming or loitering outside the SAQA backed up = 28
total vessels of all types anchored, or slow-speed steaming or
loitering outside the SAQA enroute LA/LB.**

Yellow + blue = orange



**PacMMS New
Queuing System
backup
calculation:**
**# inside 25 mi +
outside SAQA =
Backup**

Per the Master
Queuing List,
there are **7**
container ships
outside the SAQA
whose calculated
time of arrival
(CTA) is before the
time of this noon
report.

These container
ships would be
inside 25 miles
were it not for the
new queuing
system for labor,
which spreads
them outside the
SAQA across the
Pacific slow-
speed-steaming or
loitering.



Total Vessels of all types inside 25 miles of Angeles and Long Beach
1 Jan 2019 through Tue 20 Sep 2022 per 1200 report

*Blue line is Total vessels of all types at a berth, anchored, or loitering.
*Grey line is all vessels of all types at a berth/dock.
*Orange line is all vessels of all types at anchor and loitering.
Orange plus Grey equals Blue.

"Normal" Total
Ships at Anchor
pre-backup was 17

Record: 114 total
vessels of all types at
anchor & loitering
inside 25 miles 16 Nov

Record: 179 total
vessels of all types
inside 25 miles 16 Nov

53 vessels of all types at a
dock/berth loading and/or
discharging cargo

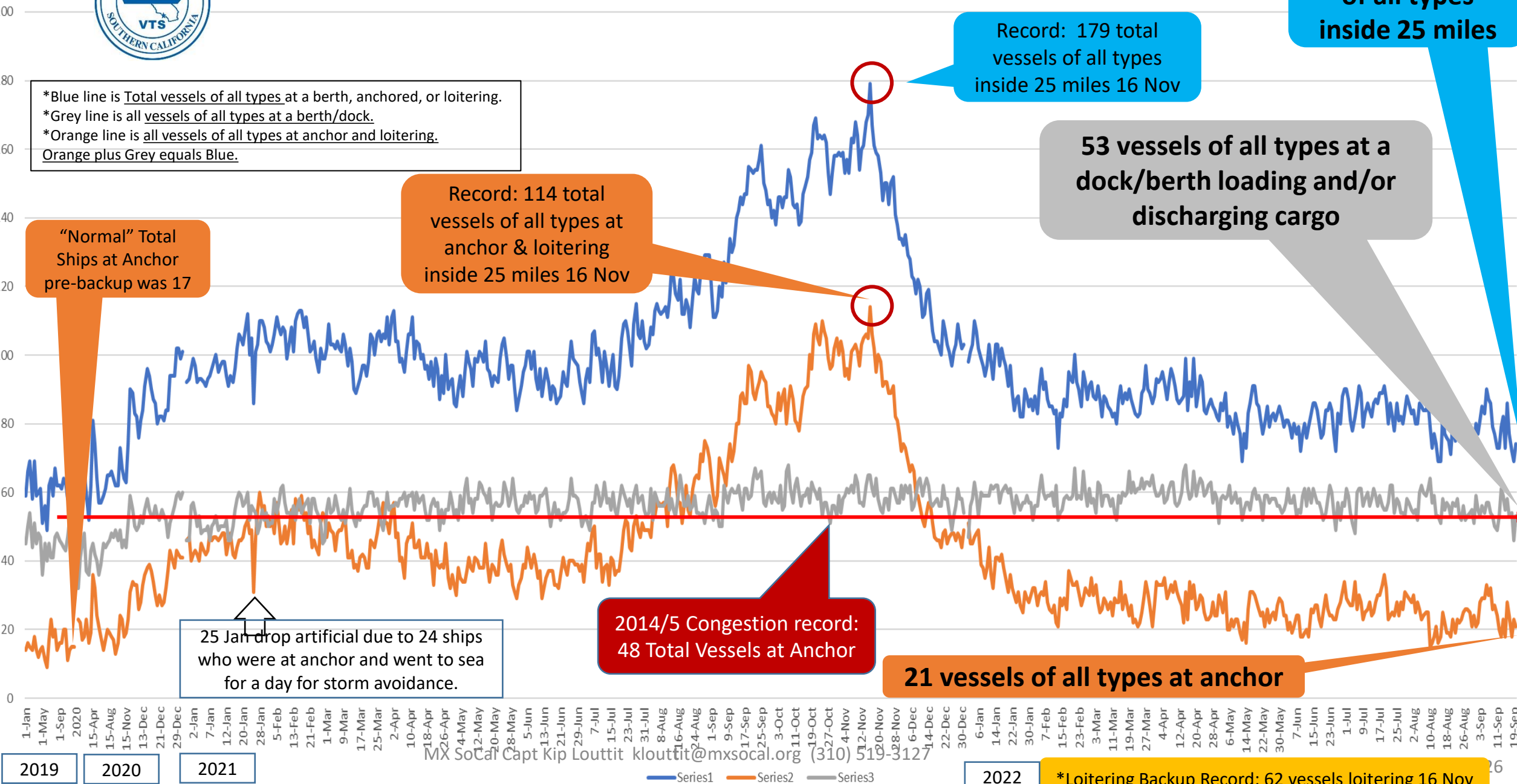
74 total vessels
of all types
inside 25 miles

25 Jan drop artificial due to 24 ships
who were at anchor and went to sea
for a day for storm avoidance.

2014/5 Congestion record:
48 Total Vessels at Anchor

21 vessels of all types at anchor

*Loitering Backup Record: 62 vessels loitering 16 Nov



2019 2020 2021

2022

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1 cargo ships & 0
container ships
anchored in the 8
Huntington Beach
(HB) contingency
anchorage.

1 container ship
transiting to a
berth in LA



Tankers at a berth in Ports of LA/LB or Anchored in/off LA/LB/Huntington 1346 Tue 20 Sep 2022

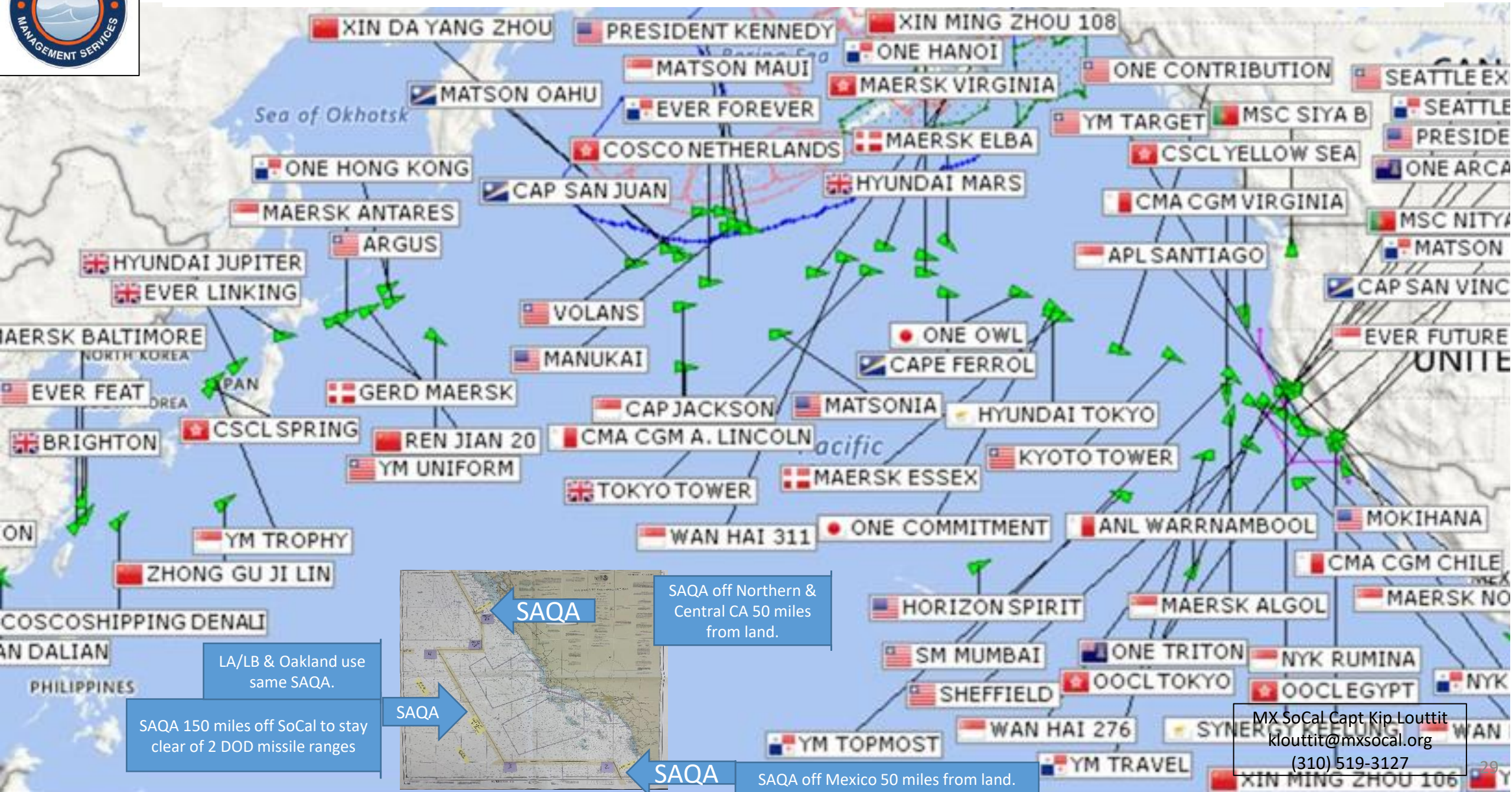
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Anchorage roughly 1/2
full due to PacMMS
protocols for
increasing safety and
air quality.

3 tankers anchored in
the 8 Huntington
Beach contingency
anchorage.

Tankers operating normally.

0 tankers loitering



End