

AIS In Port Operations

Captain Dick McKenna

Executive Director

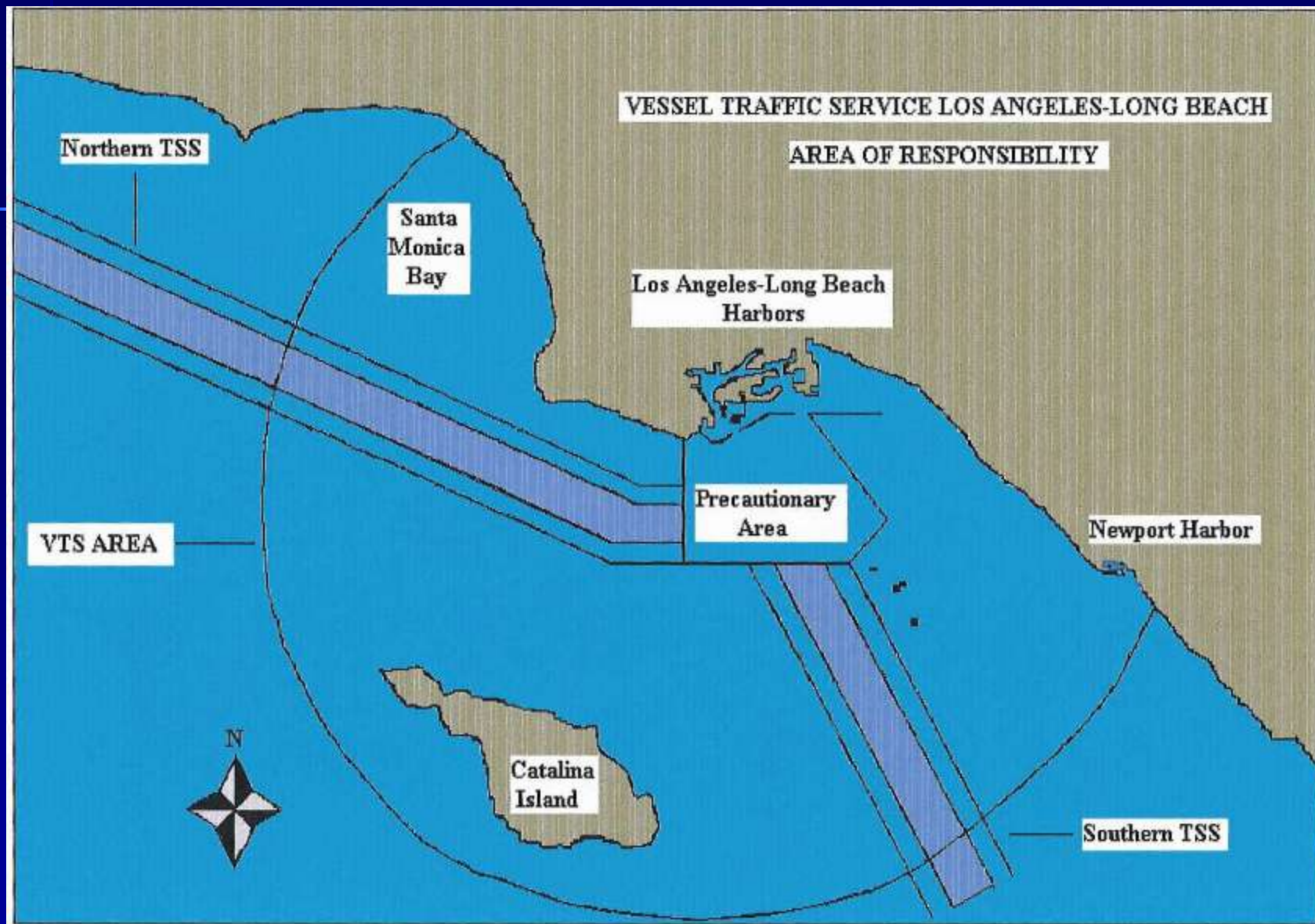
Marine Exchange of Southern California

Port of Los Angeles-Long Beach



VTS LA/LB





Arrival / Shift / Departure List

Pending Vessels (135)

Delid	In	Source	TAQ	Name	Berth	From	Flag	Type	CallSign	LOA	Activity	EDA(T)
<input type="checkbox"/>		Agent	20:00	APL QUETZAL	303	Pt. Quetzal, GTM	ATG	UCC	V2HA5	132.48	D/L	04/20/2004
<input checked="" type="checkbox"/>		LAP	23:00	VILLE D'ORION	139	Pusan, KOR	DEU	UCC	DABL	259.00	D/L	04/20/2004
<input type="checkbox"/>		LAP	23:30	BRILLIANT ACE	197	Fraser River,	PAN	MVE	3EQZ5	180.02	Disc	04/20/2004
<input type="checkbox"/>		Agent	01:00	CSL TRAILBLAZER	D46	San Marcos Island,	BHS	BOR	C6FQ9	177.98	Disc	04/21/2004
<input type="checkbox"/>		Agent	04:00	PAPUDO	F209	Balboa, PAN	HKG	TCR	VFZD7	235.01	Disc	04/21/2004
<input type="checkbox"/>		Agent	04:00	TRADE BRAVERY	T138	Pusan, KOR-Oakland,	ATG	UCC	V2AC9	208.30	D/L	04/21/2004
<input type="checkbox"/>		Agent	05:00	PRESIDENT POLK	302	Vancouver, CAN	USA	UCC	WRYD	275.14	D/L	04/21/2004
<input type="checkbox"/>		Agent	09:00	MSC ATLANTIC	A94	Yankai, CHN	PAN	UCC	HPMD	237.00	D/L	04/21/2004
<input type="checkbox"/>		Agent	12:00	QUINAULT (T. SALISHAN)	T122	Aberdeen, USA	USA	OBA	564261	82.90	Disc	04/21/2004
<input type="checkbox"/>		Agent	12:00	NESTUCCA (T. SALISHAN)	Anc 15	Aberdeen, USA	USA	OBA	563658	92.27	AwTow	04/21/2004

Vessels Due To Sail (143)

Under Way	Info Source	TDG	Name	Berth	For	Flag	Type	CallSign	LOA	EDD(T)
<input type="checkbox"/>	Agent	20:00	GROTON	Anc-B6	Richmond, USA	USA	ITB	KMJL	210.61	04/20/2004
<input type="checkbox"/>	JP	21:30	TOMSK	Anc-B4	Balboa, PAN	LBR	TCO	ELT17	181.00	04/20/2004
<input type="checkbox"/>	Agent	02:00	TUNDRA TRADER	F206	Valparaiso, CHL	LBR	GRF	ELIU3	158.53	04/21/2004
<input type="checkbox"/>	M	03:00	BLUE PRINCESS	Anc-F15	Oakland, USA	LBR	SCB	ELED8	188.63	04/21/2004
<input type="checkbox"/>	Agent	03:00	APL CHINA	302	Oakland, USA	USA	UCC	WDB3161	276.30	04/21/2004
<input type="checkbox"/>	Sched	04:00	EWA	C62	Honolulu, USA	USA	UCC	WEZM	240.09	04/21/2004
<input type="checkbox"/>	Agent	05:00	APL ALMANDINE	305	Oakland, USA	SGP	UCC	9VBS	288.31	04/21/2004
<input type="checkbox"/>	Agent	05:00	MAERSK TOKYO	402	Keelung, TWN	GRC	UCC	SVWG	269.78	04/21/2004
<input type="checkbox"/>	Agent	05:00	MERCURY	92	Catalina Island, USA	BHS	MFR	C6SQ6	243.00	04/21/2004
<input type="checkbox"/>	Sched	05:30	LING YUN HE	J245	Shanghai, CHN	CHN	UCC	BOTT	179.70	04/21/2004

Vessels Due To Shift (14)

Under Way	Info Source	TS(G)	Name	From Berth	To Berth	Flag	Type	CallSign	LOA	EDS(T)
<input type="checkbox"/>	Agent	17:00	ANASAZI	Anc-D1	B77	USA	TCO	KAQK	207.26	04/20/2004
<input type="checkbox"/>	Agent	23:30	BRITISH PIONEER	T121	Anc 15	LOM	TCR	MZBN2	334.00	04/20/2004
<input type="checkbox"/>			MSC NERISSA	Anc-F17	A94	PAN	UCC	H3LP	294.05	04/20/2004
<input type="checkbox"/>	Sched	02:00	DENALI	Anc-B7	T121	USA	TCR	W5VR	290.38	04/21/2004
<input type="checkbox"/>	Agent	06:30	NEWMARKET	Anc-D8	120	BHS	LPG	C6Q08	117.09	04/21/2004

☒ Automatic refresh will occur in 59 seconds!

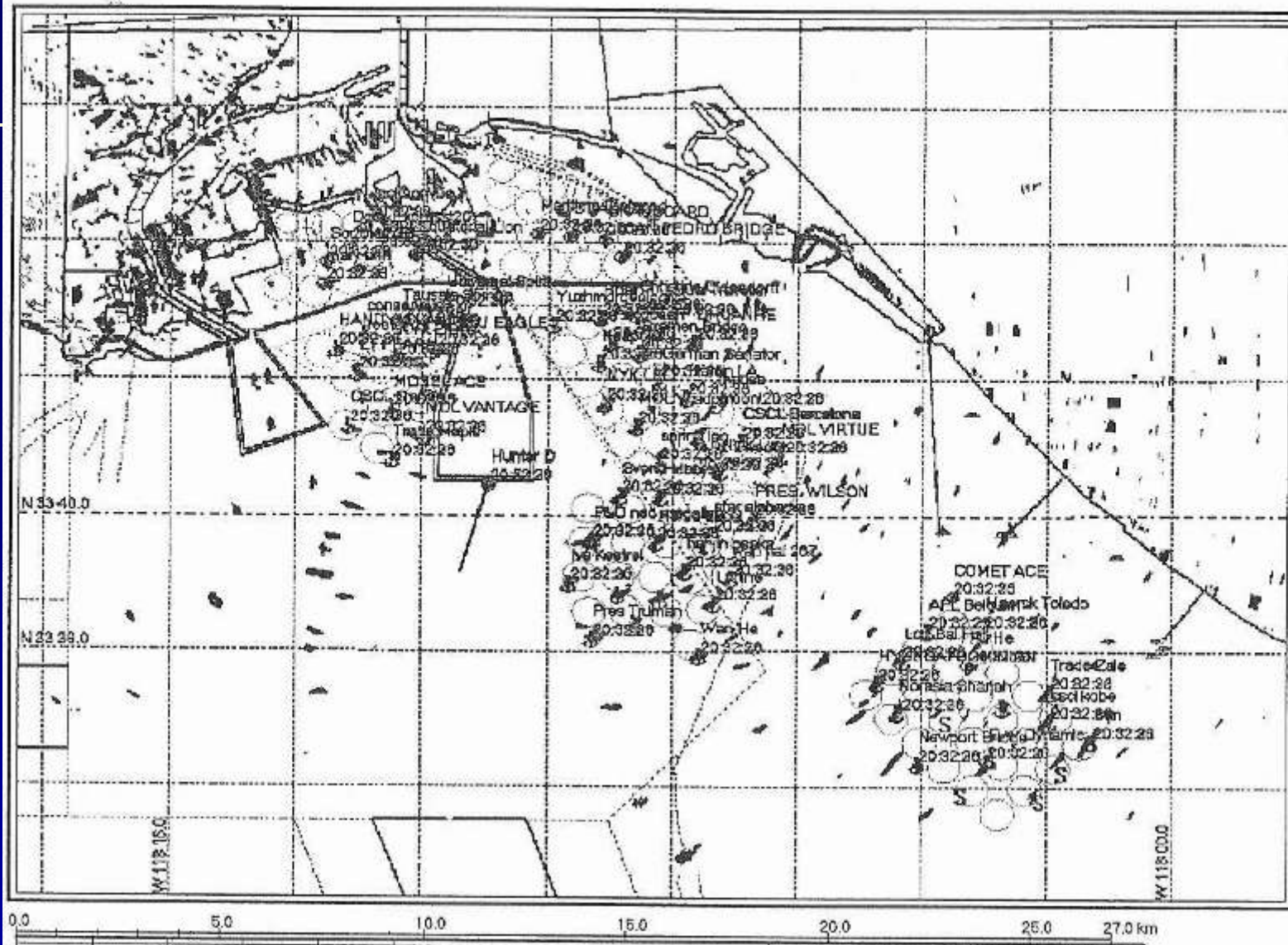
Refresh

Close Form

VTIS Plot, 08.10.2002

AOR - 16.9 x 13.0 Nm

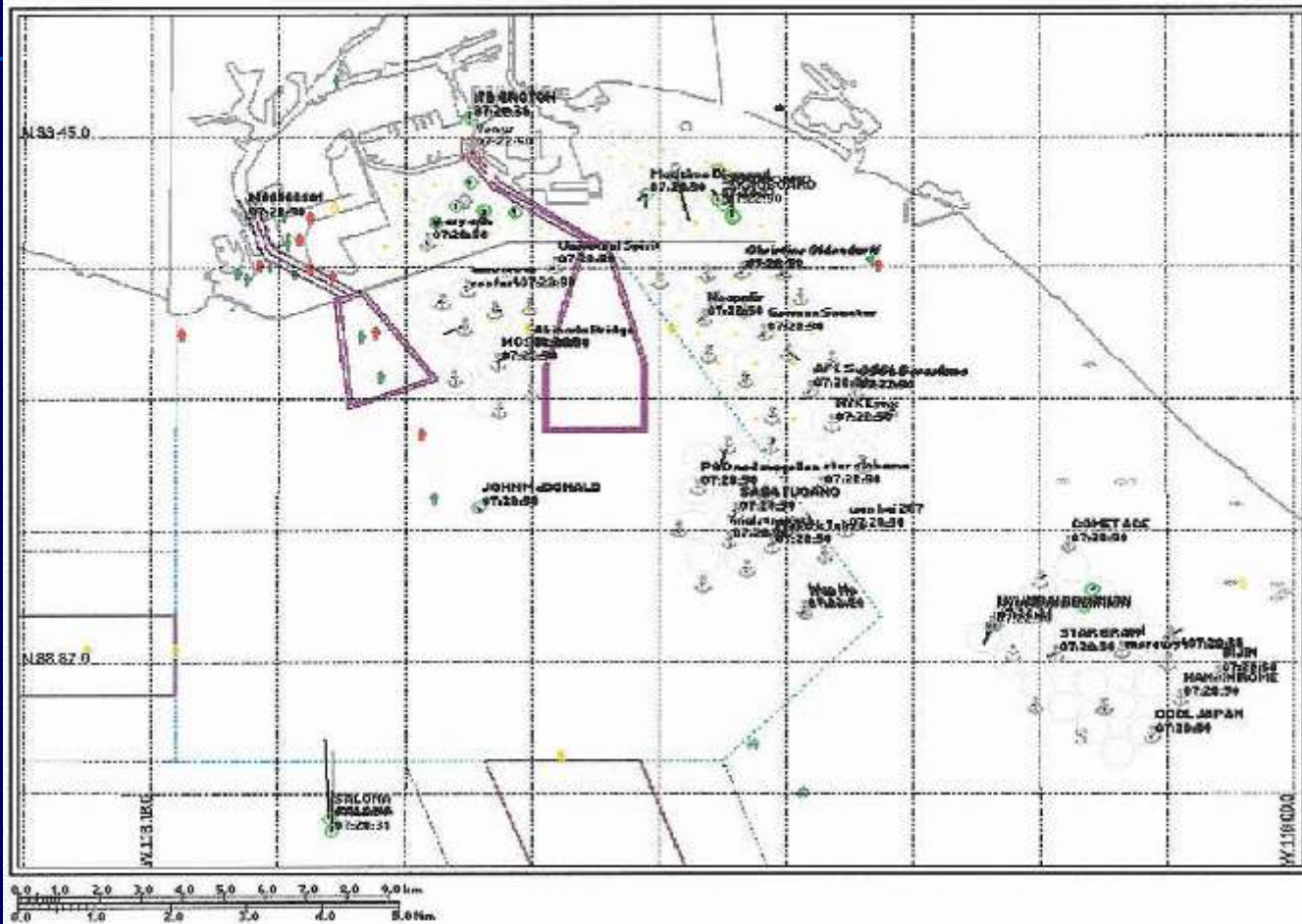
Marine Exchange VTS: All areas - Operator99



Marine Exchange VTS
VTIS Plot, 9.10.2002

NORCONTROLIT VTS5060
AOR - 7.9 x 6.0 Nm

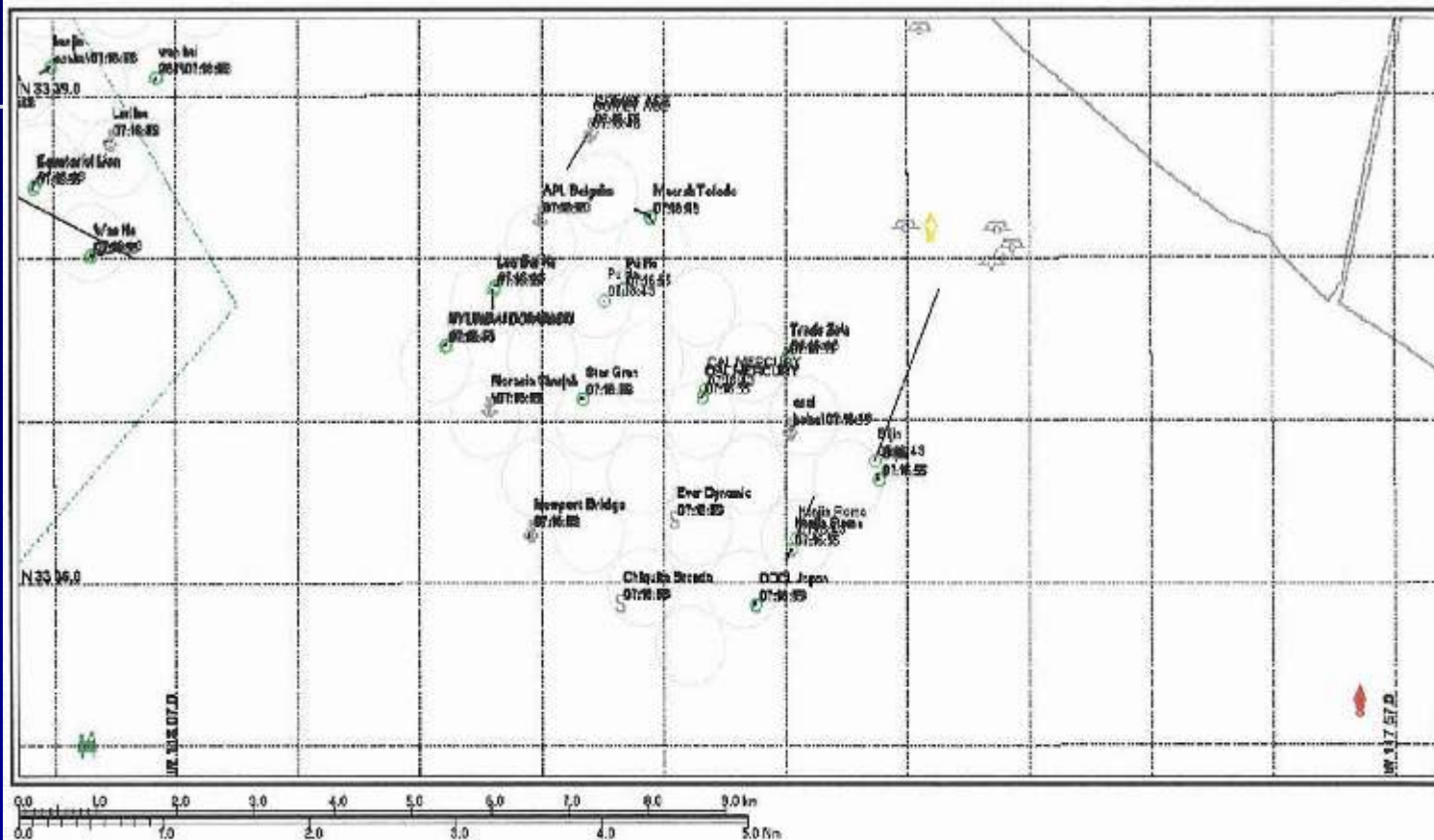
Marine Exchange VTS: All areas - Operator99



Marine Exchange VTS VTIS Plot, 8.10.2002

NORCONTROLIT VTS5060
AOR - 9.7 x 4.7 Nm

Marine Exchange VTS: All areas - Operators



What Does AIS do?

- Broadcast and receive ship data between ships and shore stations
- Uses an autonomous organisation method for the VHF transmissions. (cellular concept)
- It provides real time tracking and identification of AIS equipped ships
Awareness of vessels behind islands or river bends
- Provides information for a VTS environment

What does AIS tell you?

Static

- MMSI number
- IMO Number
- Name of the ship
- Call sign
- Type of Ship
- Length and Beam
- Location of the GPS antenna

Dynamic

- Position (latitude/longitude)
- Heading
- Course and speed over ground
- Rate of turn
- Position accuracy
- Navigational status
- Time stamp



Voyage Related

- Ships draught
- Destination
- (Waypoints)
- (Number of persons on-board)
- Estimated time of arrival
- Voyage and static data are updated once every 6 minutes or on interrogation
- Type of Cargo

Tideland AIS

- AIMS S11 Base Station
- Installed November 2003
- Simple Installation
- Reception/Detection Solid to 40+ nm
- Frequent Reception/Detection to 120+ nm
- Message Feature Presently Unused





ADVANTAGES

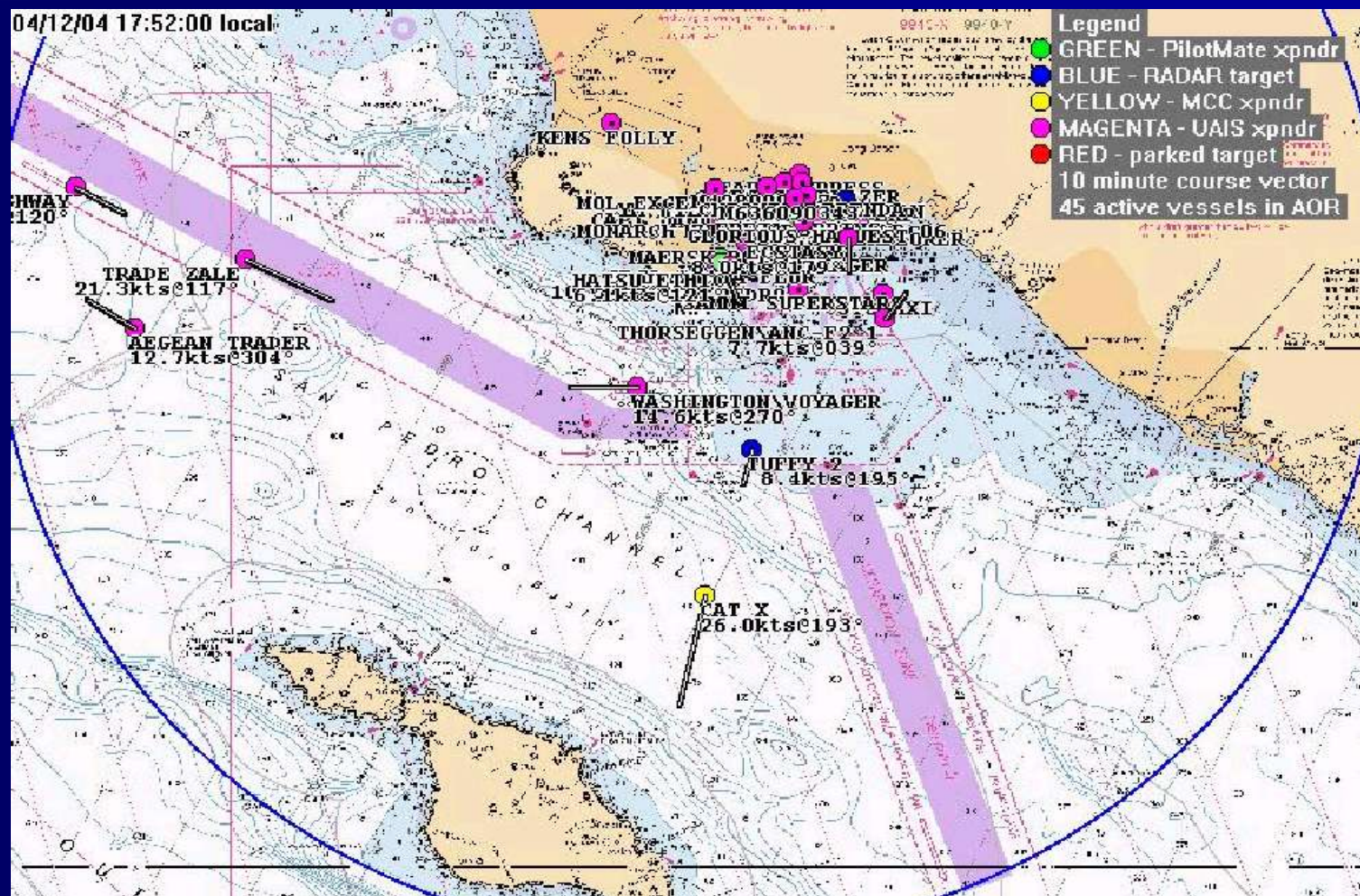
- Second Detection Device
- Improved Benefit to USCG Functions
 - Safety
 - Security
- Better Customer Service
 - Tug, Linehandler Coordination
 - Service to Agents. Operators



Target Mapping

- Supported By Norcontrol 5060 System/ARINC
- Real Time
- Website Based
- Improves Port Operations
- Improves Port Security

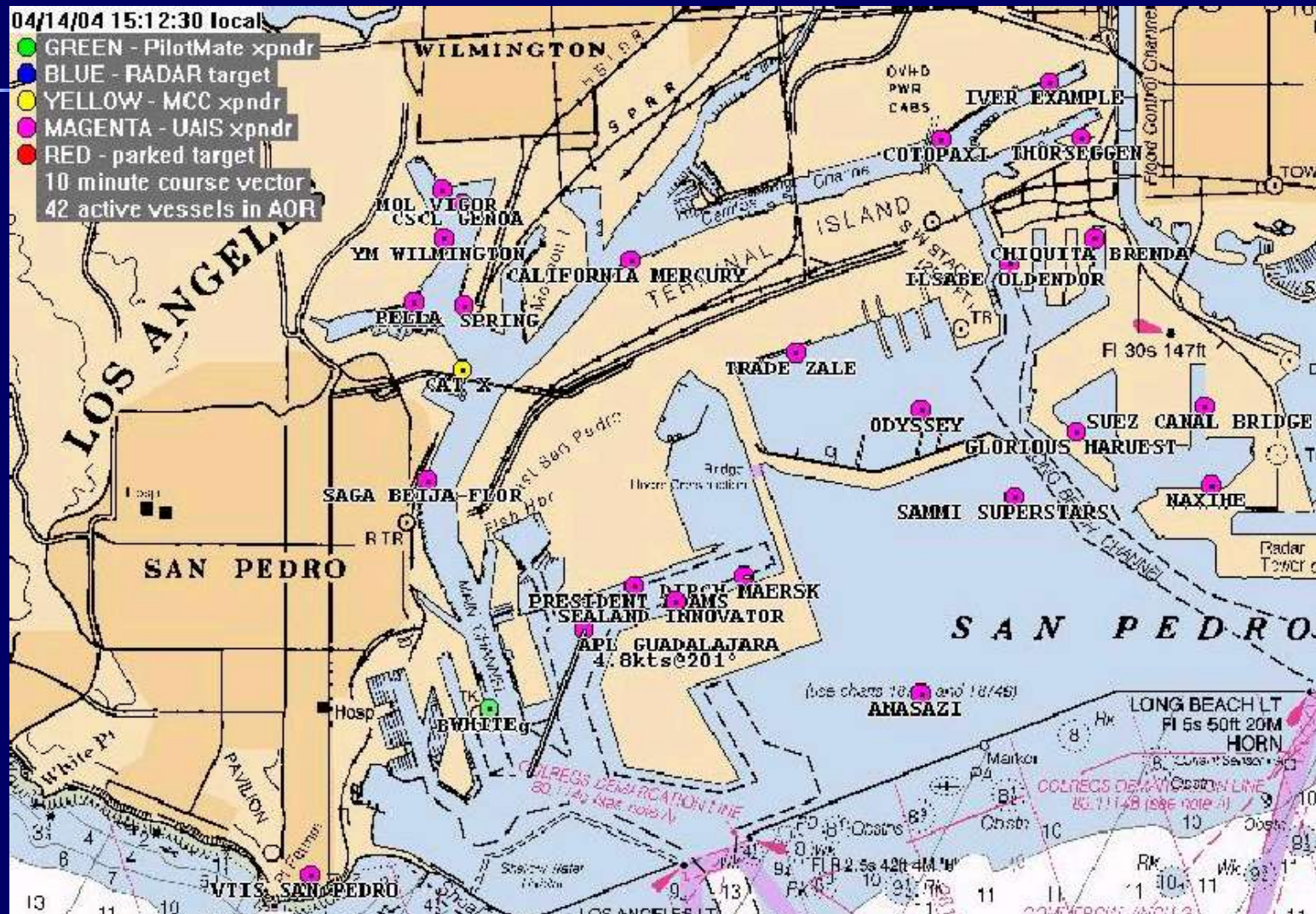
AOR



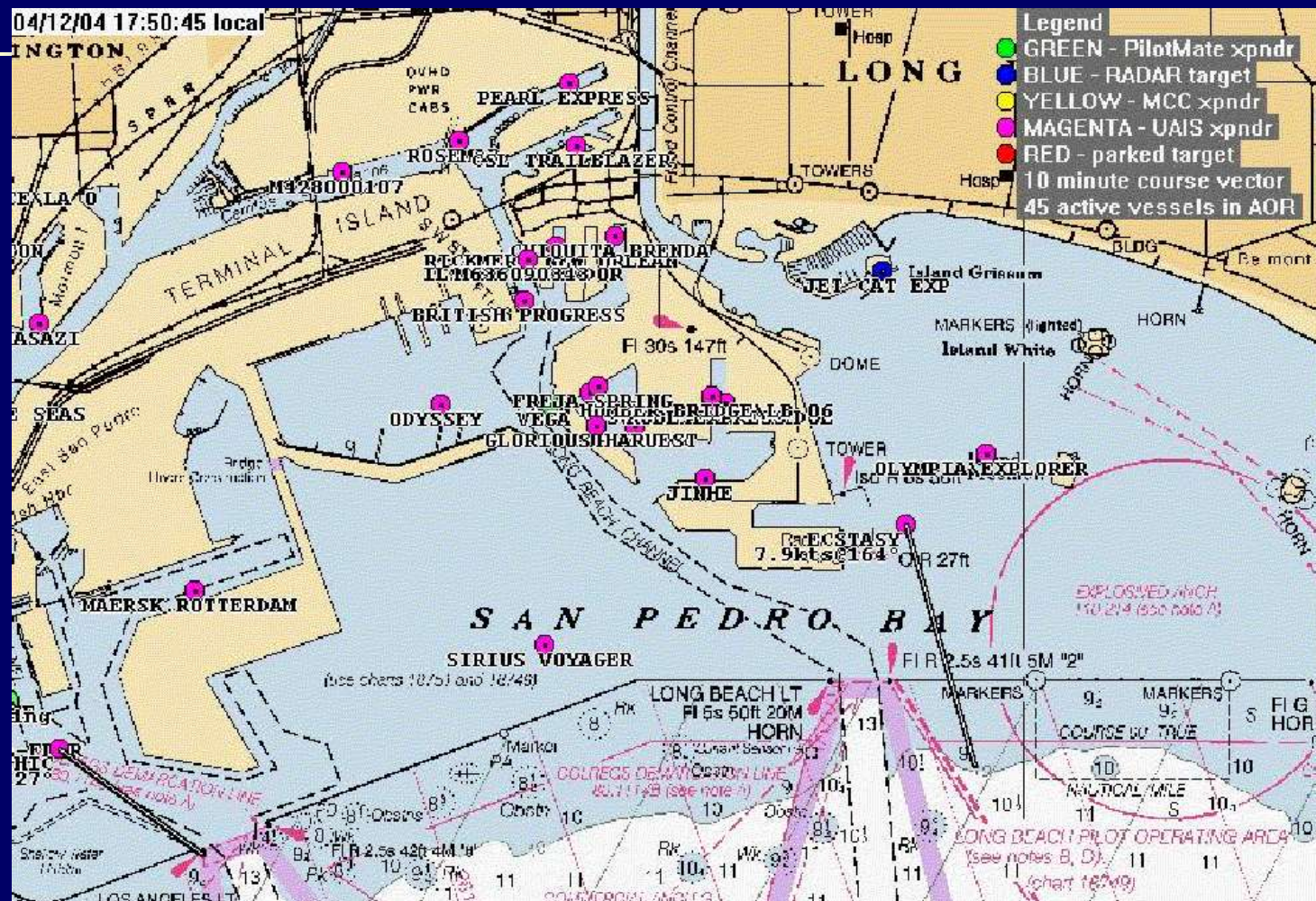
Precautionary Area



Los Angeles



Long Beach



CHALLENGES

- Resolution of USCG/Maritel Issue
- Innovative Utilization of Text Messaging
- Assimilation of “Class B” AIS Platforms
- Integration With Longer Range Tracking Devices

Going Forward

- ASVTS
- Real Time, World Wide
- MX Alaska Initiative
- MISNA Supported
- Trials On West Coast 2005



Automated Secure Vessel Tracking System (ASVTS)

*A Vessel Tracking System developed by the
Maritime Information Services of North America
that employs satellite and AIS transmissions as well as
other information sources to track the locations of
vessels to aid Maritime Security, Safety, Efficiency and
Environmental Protection*



M/V EVERDAINTY
3/29/03-7/25/03



Automated Secure Vessel Tracking System™



Legend on/off



17:48
UTC

Trip history

Logout



Ability to determine where vessel
has been before arriving in U.S.

