General Comments

The paper provides a good overview of High Frequency radar and how it can be used to answer scientific and societal questions related to the coastal ocean. They then discuss the measurements of HFR (currents, waves and winds). They then document the long list of projects that have contributed to the development of HFR in the Mediterranean. Lastly, they lay out the future challenges and prospects for HFR technology in the region.

Specific Comments

I would like to hear from the authors on how HFR compares to other measurements in the Mediterranean in terms of priority and significance. Also, can the authors document more "happy ending stories" line 957. Can they explain more on SASEMAR? Are there other stories like this one?

Technical Comments

Line 53	Can the authors expand on what they mean by Mediterranean framework, do
	they mean region? If not please expand and clarify
Line 58	what is meant by a restless navigable route
Line 60	remove the such as, there are only 3 chokepoints just state the 3
Line 63	can the biological productivity be mapped in Figure 1 rather than bathymetry?
Line 75	It is hard to the see the dots representing the HFR stations, can they be made larger?
Line 79	7% of the worlds biodiversity while only covering 0.7% of the ocean's surface area
Line 90	"impact assessment" can the authors expand upon this phrase?
Line 99	470 million
Line 105	enhanced maritime safety and improved ecological decision support sounds like US IOOS challenges. Are these challenges documented in Europe as well?
Line 110	remains a priority
Line 124	for societal benefit
Line 125	can you add a sentence joining this paragraph with the previous eg "For instance, two programs that contribute to the wealth of data collected in the Med include SMOS and ARGO."

Line 134	areal and endurance coverage
Line 136	thereby providing
Line 157	the title of the section is Mediterranean Oceanographic Network, line 185 uses the term Mediterranean observing system. Any signifigance in the difference in terms?
Line 166	what is meant by boots?
Line 183	Should that read MONGOOS HFR Network?
Figure 2	what is the meaning of the double sided arrow between mongoos and Med HFR working group?
Line 186	coastal observing systems should not be capitalized
Line 211	consider removing "not only" and "but also"
Line 240	remove "on"
Line 241	add "the Geometric Dilution"
Line 250	remove very
Line 253	meaning of ADC?
Line 290	change to ionospheric
Line 300	For this section would you consider a figure like this

	Beam Forming	Direction Finding
Phased Array	WERA	WERA
Compact	?	CODAR SeaSonde

Line 319 directions of arrival

Line 321 consider this as a good reference for this sentence

B. M. Emery, "Evaluation of Alternative Direction-of-Arrival Methods for Oceanographic HF Radars," in *IEEE Journal of Oceanic Engineering*, vol. 45, no. 3, pp. 990-1003, July 2020, doi: 10.1109/JOE.2019.2914537.

Line 322 consider using phased-array rather than extended arrays

Line 323	what is meant by "peaky"? Can a better term be used or more explanantion given?
Line 324	remove very
Line 325	remove careful
Figure 3	do the plots cover the same period?
Figure 4b	remove x axis 45-180 degrees and wrap 0-45 next to 360. The resolution of the figure is poor, increase it.
Line 390	Lagrangian
Line 399	please provide reference for these statistics
Line 407	have also been documented
Line 408	please provide a summary sentence or paragraph on this section, introducing the next section
Line 445	new paragraph after reference
Line 453	asset
Line 489	what is Mc-WAF?
Line 490	please explain intermediate rings more
Line 515	location-specific
Figure 5	missing x axis tick marks on the figures, standardize the colors HFR is red, buoy blue, other black. Fig 5d is faint.
Line 537	please provide a summary sentence or paragraph on this section, introducing the next section
Line 553	remove also
Line 557	why is this sentence needed?
Line 570	provided

Line 572	showed that
Line 576	should tense be past, showed comparisons
Line 585	and iii) other
Figure 6	cc should be subscript to match figure. What is the red dashed line in subplot a? The RMSE of 60 degrees seems high, please explain.
Line 599	replace know-how with operational experience
Line 600	replace minor with reduced
Line 605	Is Med HFR group working with Ocean Best Practices https://www.oceanbestpractices.org ?
Line 608	does the numbering in the list denote a hierarchy? if not replace with symbols.
Line 617	is there a reference for the EuroGOOS HFR Task Team?
Line 622	consider removing "for the development of operational ocean monitoring via HFR systems"
Line 625	spell out EU, is there a reference for JERICO-NEXT?
Line 627	replace within with "with"
Line 631	which set the basis
Line 635	remove "the achievement of"
Line 637	can the authors comment how the European standard format compares to the American standard? Are there any differences?
Line 638	spell out or explain SDC and INSPIRE
Line 639	replace "to be mandatorily" with "are consistently applied to HFR data as defined by the EuroGOOS"
Line 646	is there a link for the EU HFR Node that can be provided
Line 660	can anything be said about data users, statistics on data use?

Line 697	should the items in the list be capitalized?
Line 740	replace inexistent with nonexistent
Line 745	replace Served as with For
Table 2	spell out PdE and MIO, consider adding a column for the country and removing country from the Institution column. Should there be an order for the table? Alphabetical by country? frequency? Authors can decide.
Figure 8c	should Phased array be replaced with beam forming if comparing to direction finding?
Figure 9b	the 14(23%) is cutoff at the bottom, please correct
Line 785	serve the marine industry
Table 3	INTERREG is mentioned often, can this be explained. Would the authors consider replacing the table with a Gantt chart to show the information? https://pythonawesome.com/a-convenient-but-aesthetic-way-of-creating-a-gantt-chart-with-python/
Line 792	the first two project have the acronym explained in the title, the remaining ones do not. Please be consistent.
Line 840	remove "which are also" and "in this section"
Line 850	The project's overall objective was
Line 890	in title it is CALYPSO-FollowOn, on the next line the – is missing? Also missing years of the project
Line 910	can you add a summary sentence or paragraph on this section, something to tie together all the projects?
Line 913	Equal to other
Line 915	remove "not only"
Line 916	move "strengths, weaknesses, opportunities and threats" to beginning of sentence. remove potential.
Line 920	pursuit of permanent funding like those of other programs?

Line 930	what kind of licenses? radio frequency? equipment installation? please state
Line 950	For this paragraph, is this process happening for other measurements? if so please list.
Line 957	replace happy-ending with success
Line 969	Additionally pilot
Line 982	to mitigate noise and clutter
Line 988	can easily be detected, triggering alerts for operators
Line 989	spell out AIS, reference https://hfradar.msi.ucsb.edu/brian emery/files/reports/2013 sbir phase2 final-report.pdf
Line 1016	replace "keep down" with "reduce"
Line 1046	remove very
Line 1084	replace "build-up" with utilize
Line 1085	what is meant by first order, can this be further explained?
Line 1092	examples illustrated here might