











3



				UNIVERSITY OF OSLO					
	The Radio-Frequency Spectrum								
	Frequency band	EM-wavelength	Designation	Services					
	3-30 kHz	100-10 km	Very Low Frequency VLF	Navigation, submarine					
	30-300 kHz	10-1 km	Low Frequency L F	Radio beacons, navigation	11				
	300-3000 kHz	1000-100 m	Medium Frequency MF	AM broadcast, maritime radio					
	3-30 MHz	100-10 m	High Frequency	Amateur Radio,					
	30-300 MHz	10-1 m	Very High Frequency VHF	TV, FM, police					
	300-3000 MHz	100-10 cm	Ultra High Frequency UHE	TV,satellite, radar					
	3-30 GHz	10-1 cm	Super High Frequency	Airborne radar,					
	30-300 GHz	10-1 mm	Extremely High Frequency EHF	Radar					
Svein-Erik Hamran 8 INFGEO 4310									



















































































































	UNIVERSITY OF OSLO	
Step Frequency Wave	form Parameters	
 Number of Frequencies: IF-Bandwidth: IF-Sampling Frequency IF-Samples pr frequency: Gating frequency: Gating delay: Gating 	751 500kHz 1 MHz 10 5.12 MHz 0 ns Tx and Rx	
 Transmitting Power Receiver Gain CW Transmitting Power Receiver Gain Sampling Along Profile: Time for each trace: 	0 dBm 60 dB -30 dBm 30 dB 10 cm 68 ms	
Svein-Erik Hamran INFGEO 4310		10









35





















40











































	University of oslo					
LynxSAR parametere						
- Frekvens: - Båndbredde: - Effekt: - Oppløsninger:	Ku-bånd 15.2 - 18.2 GHz 1 GHz, (15 cm nominell oppløsning) 350 W 0.3 - 3 m stripmap 0.1 - 3 m spotlight					
- Rekkevidde:	7 - 30 km stripmap 4 - 25 km spotlight					
- Sporbredde: 45º)	2600 piksel (934 m ved 0.3 m oppløsning,					
- Squint: - GMTI:	± 45º - 135º 3 m/s (ved 35 m/s), 4 - 25 km, 10 dBsm mål, -10 dBsm/m² clutter ,10 km sporbredde					
- CCD:	Coherent Change Detection, Interferometri					
Svein-Erik Hamran INFGEO 4310	10					











